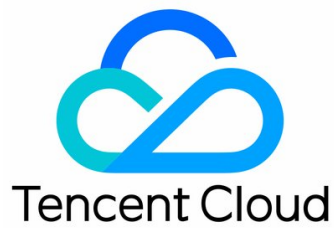


# **Basic Cloud Monitor**

## **Tencent Cloud Service Metrics**

### **Product Documentation**



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## Contents

### Tencent Cloud Service Metrics

#### CVM Monitoring Metrics

##### CPM

- Monitoring Metrics of CPM 1.0

- Monitoring Metrics of a BM EIP

- Monitoring Metrics of a BM Peering Connection

- Monitoring Metrics of a BM Private Network CLB Instance

- Monitoring Metrics of a BM Public Network CLB Instance

#### Block Storage Monitoring Metrics

##### EMR

- EMR (HDFS)

- EMR (HBase)

- EMR (Hive)

- EMR (Node)

- EMR (Presto)

- EMR (Spark)

#### Direct Connect

- Dedicated Tunnel Monitoring Metrics

- Connection Monitoring Metrics

#### TencentDB

- TencentDB for SQL Server Monitoring API

- TencentDB for MySQL Monitoring Metrics

- TencentDB for Redis

  - Monitoring Metrics (CKV Edition)

  - Monitoring Metrics (Community Edition)

- TencentDB for MongoDB Monitoring Metrics

- TencentDB for PostgreSQL Monitoring Metrics

- TencentDB for CYNOSDB\_MYSQL Monitoring Metrics

- TencentDB for TcaplusDB Monitoring Metrics

- TencentDB for TDSQL Monitoring Metrics

#### Tencent Kubernetes Engine (TKE)

- Monitoring Metrics at the Pod Dimension

- Monitoring Metrics at the Container Dimension

- Monitoring Metrics at the Service Dimension

#### Cloud Load Balancer (CLB)

- Public Network CLB Monitoring Metrics

- CLB Layer-7 Data Monitoring Metrics

- Private Network CLB Monitoring Metrics (at the Real Server Dimension)

- Private Network CLB Monitoring Metrics (at the CLB Dimension)

#### Virtual Private Cloud (VPC)

- NAT Gateway Monitoring Metrics

- VPN Gateway Monitoring Metrics

- VPN Tunnel Monitoring Metrics

- Direct Connect Gateway Monitoring Metrics

- CCN Monitoring Metrics

- Peering Connection Monitoring Metrics

- Bandwidth Packet Monitoring Metrics

- EIP Monitoring Metrics

#### Global Application Acceleration Platform (GAAP)

- GAAP Origin Server Health Monitoring Metrics

- GAAP Channel Load Monitoring Metrics

#### Cloud Message Queue (CMQ)

- Topic Subscription Monitoring Metrics

- Queue Service Monitoring Metrics

#### CMQ CKafka

- Topic Monitoring Metrics
- Instance Monitoring Metrics
- Consumer Group Monitoring Metrics
- API Gateway Monitoring Metrics
- Elasticsearch Monitoring Metrics
- Cloud Function Monitoring Metrics
- CDN Monitoring Metrics
- COS Monitoring Metrics
- CFS Monitoring Metrics

# Tencent Cloud Service Metrics

## CVM Monitoring Metrics

Last updated : 2020-07-14 16:26:33

### Namespace

Namespace=QCE/CVM

### Monitoring Metrics

#### Basic metrics

Parameter	Metric Name	Calculation Method	Description	Unit	Dimension
CPUUsage	CPU utilization	Percentage of the "user+nice+system+irq+softirq+idle+iowait" time of the CPU to the total time	Percentage of CPU utilization in real time when the CVM is running	%	InstanceId
CPULoadAvg	Average CPU load	Analyze data in <code>/proc/loadavg</code> and collect the average load of the system in the past one minute at 10 second intervals (this metric is not available for Windows CVMs)	Average number of tasks that are using and are about to use the CPU in a period of time	-	InstanceId
MemUsed	Memory usage	<ul style="list-style-type: none"> <li>On Windows, call <code>GlobalMemoryStatusEx</code>.</li> <li>On Linux, call <code>psutil.virtual_memory()</code>.</li> </ul> Calculate the value of the memory usage (excluding buffers and caches) by subtracting the available memory (including buffers and caches) from the total memory	Actual memory used by users, excluding the memory capacity used by buffers and system caches	MB	InstanceId
MemUsage	Memory utilization	Ratio of the used memory (excluding caches, buffers, and the remaining available capacity) to the total memory	Amount of memory actually used, excluding the memory capacity used by buffers and system caches	%	InstanceId
TcpCurrEstab	Number of TCP connections	<ul style="list-style-type: none"> <li>On Windows, call "GetTcpTable" to obtain the number of TCP connections in the "MIB_TCP_STATE_ESTAB" state.</li> <li>On Linux, obtain the value of "CurrEstab" from <code>/proc/net/snmp</code></li> </ul>	Number of TCP connections in the "ESTABLISHED" state	Count	InstanceId
Gputemp	GPU temperature	Returned by the <code>nvidiaDeviceGetTemperature</code> API from the NVIDIA NVML library	Evaluate the heat dissipation condition of the GPU	Degrees Celsius	InstanceId
Gpuutil	GPU utilization	Returned by the <code>nvidiaDeviceGetUtilizationRates</code> API from the NVIDIA NVML library	Evaluate the computing power consumed by the load during the non-idle period in percents	%	InstanceId
GpuMemUsed	Video RAM usage of GPU	This parameter is calculated by adding up the video RAM usage of all active channels	Evaluate the usage of video RAM by load	MB	InstanceId
Gpupowusage	Power consumption of GPU	Returned by the <code>nvidiaDeviceGetPowerUsage</code> API from the NVIDIA NVML library	Evaluate the power consumption of GPU	W	InstanceId

- Basic metric data and alarm time (local time of the customer CVM) can be obtained only after the [CVM monitoring component Agent](#) is installed. If the local time of the customer CVM is not UTC/GMT+08:00, the time of the monitoring data of the CVM will not be the local time (UTC/GMT+08:00) of the CVM.
- Ways of installing the monitoring component:

- Select Cloud Monitoring when purchasing a CVM to automatically install the monitoring component.
- Manually install the monitoring component by [installing the CVM monitoring component](#).

### Other metrics

Parameter	Metric Name	Description	Unit	Dimension
LanOuttraffic	Private outbound bandwidth	Private outbound traffic of ENI per second	Mbps	Instanceld
LanIntraffic	Private inbound bandwidth	Private inbound traffic of ENI per second	Mbps	Instanceld
LanOutpkg	Private outbound packets	Number of outbound packets of the private ENI per second	Packets/sec	Instanceld
LanInpkg	Private inbound packets	Number of inbound packets of the private ENI per second	Packets/sec	Instanceld
WanOuttraffic	Public outbound bandwidth	Public outbound traffic of ENI per second	Mbps	Instanceld
WanIntraffic	Public inbound bandwidth	Public inbound traffic of ENI per second	Mbps	Instanceld
WanOutpkg	Public outbound packets	Number of outbound packets of the public ENI per second	Packets/sec	Instanceld
WanInpkg	Public inbound packets	Number of inbound packets of the public ENI per second	Packets/sec	Instanceld
DiskReadTraffic	Disk read traffic	Traffic of reading data from a disk to the memory per second. The value of this parameter takes the maximum read traffic for all partitions	KB/s	Instanceld
DiskWriteTraffic	Disk write traffic	Traffic of writing data from the memory to a disk per second. The value of this parameter takes the maximum write traffic for all partitions	KB/s	Instanceld
DiskUsage	Disk usage	Percentage of used disk space displayed by the partition	%	Instanceld
DiskIoAwait	Disk I/O waiting time	Average waiting time of each device I/O operation. The value of this parameter takes the maximum average waiting time for all partitions	ms	Instanceld
CpuLoadavg	Average CPU load per minute	Average CPU load per minute. The value of this parameter takes the data in the third column of <code>/proc/loadavg</code> depending on the installation and collection of the monitoring component. This metric is not available for Windows CVMs	-	Instanceld
CpuLoadavg5m	Average CPU load per five minutes	Average CPU load per five minutes. The value of this parameter takes the data in the first column of <code>/proc/loadavg</code> depending on the installation and collection of the monitoring component. This metric is not available for Windows CVMs	-	Instanceld
CpuLoadavg15m	Average CPU load per 15 minutes	Average CPU load per 15 minutes. The value of this parameter takes the data in the second column of <code>/proc/loadavg</code> depending on the installation and collection of the monitoring component. This metric is not available for Windows CVMs	-	Instanceld

Parameter	Metric Name	Description	Unit	Dimension
BaseCpuUsage	Base CPU utilization	The base CPU utilization is collected and reported through the host, and the data can be viewed without the installation of the monitoring component. This data can still be continuously collected and reported even when the load of the CVM is high	%	Instanceld

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the `period` supported by each metric.

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	Instanceld	Dimension name of the CVM instance ID	Enter a string-type dimension name, such as Instanceld
Instances.N.Dimensions.0.Value	Instanceld	A specific CVM instance ID	Enter a specific instance ID, such as ins-mm8bs222

## Input Parameters

To query the monitoring data of CVM, use the following input parameters:

&Namespace=QCE/CVM

&Instances.N.Dimensions.0.Name=Instanceld

&Instances.N.Dimensions.0.Value=

# CPM

## Monitoring Metrics of CPM 1.0

Last updated : 2020-07-28 16:13:15

### Namespace

Namespace=QCE/CPM

### Monitoring Metrics

Metric	Description	Unit	Dimension
CpuUsage	CPU utilization	%	instanceld
MemUse	Memory usage	MByte	instanceld
IoReadTraffic	Disk I/O read traffic	KByte/s	instanceld
IoWriteTraffic	Disk I/O write traffic	KByte/s	instanceld
IoUtil	CPU utilization of disk I/O operations	%	instanceld
WanOuttraffic	Public network outbound bandwidth	Mbps	instanceld
WanIntraffic	Public network inbound bandwidth	Mbps	instanceld
WanOutpkg	Public network outbound packets	Packets/sec	instanceld
WanInpkg	Public network inbound packets	Packets/sec	instanceld
WanOutflux	Public network outbound traffic	GByte	instanceld

#### **Note :**

The statistical granularity ( `period` ) may vary by metrics. You can obtain the `period` supported by each metric by calling the [DescribeBaseMetrics](#) API.

### Overview of parameters in each dimension

Parameter	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	instanceld	Dimension name of the CPM instance ID	Enter a string-type dimension name, such as instanceld
Instances.N.Dimensions.0.Value	instanceld	CPM instance ID	Enter a specific instance ID, such as cpm-test, which can be obtained by calling the DescribeDevices API

### Input Parameters

To query the monitoring data of the CPM instance, configure input parameters as follows:

&Namespace=QCE/CPM

&Instances.N.Dimensions.0.Name=instanceld

&Instances.N.Dimensions.0.Value=



# Monitoring Metrics of a BM EIP

Last updated : 2020-07-28 16:13:16

## Namespace

Namespace=QCE/BM\_LB

## Monitoring Metrics

Metric	Description	Unit	Dimension
EipOuttraffic	Public network outbound bandwidth	Mbps	vip
EipIntraffic	Public network inbound bandwidth	Mbps	vip
EipOutpkg	Public network outbound packets	Packets/sec	vip
EipInpkg	Public network inbound packets	Packets/sec	vip

### Note :

The statistical granularity ( `period` ) may vary by metrics. You can obtain the `period` supported by each metric by calling the [DescribeBaseMetrics](#) API.

## Overview of parameters in each dimension

Parameter	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	vip	Dimension name of the EIP	Enter a string-type dimension name, such as vip
Instances.N.Dimensions.0.Value	vip	EIP	Enter a specific EIP, such as 115.115.115.115. You can query the list of EIPs under your account by calling DescribeEipBm

## Input Parameters

To query the monitoring data of BM EIP, configure input parameters as follows:

&Namespace=QCE/BM\_LB

&Instances.N.Dimensions.0.Name=vip

&Instances.N.Dimensions.0.Value==

# Monitoring Metrics of a BM Peering Connection

Last updated : 2020-07-28 16:13:16

## Namespace

Namespace=QCE/BM\_PCX

## Monitoring Metrics

Metric	Description	Unit	Dimension
OutBandwidth	Public network outbound bandwidth	Mbps	peeringConnectionId
InBandwidth	Public network inbound bandwidth	Mbps	peeringConnectionId
OutPkg	Public network outbound packets	Packets/sec	peeringConnectionId
InPkg	Public network inbound packets	Packets/sec	peeringConnectionId

### Note :

The statistical granularity ( `period` ) may vary by metrics. You can obtain the `period` supported by each metric by calling the [DescribeBaseMetrics](#) API.

## Overview of parameters in each dimension

Parameter	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	peeringConnectionId	Dimension name of the unique ID of the BM peering connection	Enter a string-type dimension name, such as peeringConnectionId
Instances.N.Dimensions.0.Value	peeringConnectionId	Unique ID of the BM peering connection	Enter a specific ID of the BM peering connection, such as pcx-test

## Input Parameters

To query the monitoring data of BM peering connection, configure input parameters as follows:

&Namespace=QCE/BM\_PCX

&Instances.N.Dimensions.0.Name=peeringConnectionId

&Instances.N.Dimensions.0.Value=

# Monitoring Metrics of a BM Private Network CLB Instance

Last updated : 2020-07-28 16:13:57

## Namespace

Namespace=QCE/BM\_INTRA\_LB

## Monitoring Metrics

Metric	Description	Unit
Inpkg	Inbound packets	Packets/sec
Outpkg	Outbound packets	Packets/sec
Intraffic	Inbound bandwidth	Mbps
Outtraffic	Outbound bandwidth	Mbps
Connum	Number of current connections (for the layer-4 listener)	-
Req	Number of requests (for the layer-7 listener)	-

### Note :

- The statistical granularity ( `period` ) may vary for different metrics. You can obtain the `period` supported by each metric by calling [DescribeBaseMetrics](#).
- You can query the monitoring metrics of a BM private network CLB instance from multiple dimensions. For more information, see [Input Parameters](#).

## Overview of Parameters in Each Dimension

Parameter	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	vip	Dimension name of the CLB VIP	Enter a string-type dimension name, such as vip.
Instances.N.Dimensions.0.Value	vip	CLB VIP	Enter a specific IP address, such as 111.111.111.11.
Instances.N.Dimensions.1.Name	protocol	Dimension name of the protocol value	Enter a string-type dimension name, such as protocol.
Instances.N.Dimensions.1.Value	protocol	Protocol	Enter a specific protocol value, such as tcp. Possible values: tcp, udp, http, and https
Instances.N.Dimensions.2.Name	loadBalancerPort	Dimension name of the CLB port	Enter a string-type dimension name, such as loadBalancerPort.
Instances.N.Dimensions.2.Value	loadBalancerPort	CLB port	Enter a specific port number, such as 80.
Instances.N.Dimensions.3.Name	lanIp	Dimension name of the IP address of the real server	Enter a string-type dimension name, such as lanIp.
Instances.N.Dimensions.3.Value	lanIp	IP address of the real server	Enter a specific IP address, such as 11.22.33.44.
Instances.N.Dimensions.4.Name	rsPort	Dimension name of the port of the real server	Enter a string-type dimension name, such as rsPort.
Instances.N.Dimensions.4.Value	rsPort	Port of the real server	Enter a specific port number of the real server, such as 8080.

Parameter	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.5.Name	vpclid	Dimension name of the integer ID of the VPC instance to which the CLB instance belongs	Enter a string-type dimension name, such as vpclid.
Instances.N.Dimensions.5.Value	vpclid	Integer ID of the VPC instance to which the CLB instance belongs	Enter a specific integer ID of the VPC instance to which the CLB instance belongs, such as 1. You can obtain the VPC ID from the <code>vpId</code> field returned by the API for <a href="#">querying the VPC list</a> .

## Input Parameters

BM private network CLB allows you to obtain the monitoring data at the following four levels: CLB, listener, listener server, and listener server port.

### 1. To obtain the monitoring data at the CLB level, set the input parameters as follows:

```
&Namespace=QCE/BM_INTRA_LB
&Instances.N.Dimensions.0.Name=vip
&Instances.N.Dimensions.0.Value=
&Instances.N.Dimensions.1.Name=vpclid
&Instances.N.Dimensions.1.Value=
```

### 2. To obtain the monitoring data at the listener level, set the input parameters as follows:

```
&Namespace=QCE/BM_INTRA_LB
&Instances.N.Dimensions.0.Name=vip
&Instances.N.Dimensions.0.Value=
&Instances.N.Dimensions.1.Name=protocol
&Instances.N.Dimensions.1.Value=
&Instances.N.Dimensions.2.Name=loadBalancerPort
&Instances.N.Dimensions.2.Value=
&Instances.N.Dimensions.3.Name=vpclid
&Instances.N.Dimensions.3.Value=
```

### 3. To obtain the monitoring data at the listener server level, set the input parameters as follows:

```
&Namespace=QCE/BM_INTRA_LB
&Instances.N.Dimensions.0.Name=vip
&Instances.N.Dimensions.0.Value=
&Instances.N.Dimensions.1.Name=protocol
&Instances.N.Dimensions.1.Value=
&Instances.N.Dimensions.2.Name=loadBalancerPort
&Instances.N.Dimensions.2.Value=
&Instances.N.Dimensions.3.Name=lanIp
&Instances.N.Dimensions.3.Value=
&Instances.N.Dimensions.4.Name=vpclid
&Instances.N.Dimensions.4.Value=
```

### 4. To obtain the monitoring data at the listener server port level, set the input parameters as follows:

```
&Namespace=QCE/BM_INTRA_LB
&Instances.N.Dimensions.0.Name=vip
&Instances.N.Dimensions.0.Value=
&Instances.N.Dimensions.1.Name=protocol
&Instances.N.Dimensions.1.Value=
&Instances.N.Dimensions.2.Name=loadBalancerPort
&Instances.N.Dimensions.2.Value=
&Instances.N.Dimensions.3.Name=lanIp
&Instances.N.Dimensions.3.Value=
```

&Instances.N.Dimensions.4.Name=rsPort  
&Instances.N.Dimensions.4.Value=  
&Instances.N.Dimensions.5.Name=vpclId  
&Instances.N.Dimensions.5.Value=

## Monitoring Metrics of a BM Public Network CLB Instance

Last updated : 2020-07-28 16:15:50

## Namespace

Namespace=QCE/BM\_LB

## Monitoring Metrics

Metric	Description	Unit
Inpkg	Inbound packets	Packets/sec
Outpkg	Outbound packets	Packets/sec
Intraffic	Inbound bandwidth	Mbps
Outtraffic	Outbound bandwidth	Mbps
Connum	Number of current connections (Layer-4 listener)	-
Req	Number of requests (Layer-7 listener)	-

### Note :

- The statistical granularity ( `period` ) may vary by metrics. You can obtain the `period` supported by each metric by calling the [DescribeBaseMetrics](#) API.
- You can query the monitoring metrics of BM public network CLB in multiple dimensions. For more information, see [Input Parameters](#).

## Overview of parameters in each dimension

Parameter	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	vip	Dimension name of the CLB VIP	Enter a string-type dimension name, such as vip
Instances.N.Dimensions.0.Value	vip	CLB VIP	Enter a specific IP address, such as 111.111.111.11
Instances.N.Dimensions.1.Name	protocol	Dimension name of the protocol value	Enter a string-type dimension name, such as protocol
Instances.N.Dimensions.1.Value	protocol	Protocol value	Enter a specific protocol value, such as tcp
Instances.N.Dimensions.2.Name	loadBalancerPort	Dimension name of the CLB port	Enter a string-type dimension name, such as loadBalancerPort
Instances.N.Dimensions.2.Value	loadBalancerPort	CLB port	Enter a specific port number, such as 80
Instances.N.Dimensions.3.Name	lanIp	Dimension name of the IP address of the real server	Enter a string-type dimension name, such as lanIp
Instances.N.Dimensions.3.Value	lanIp	IP address of the real server	Enter a specific IP address, such as 11.22.33.44
Instances.N.Dimensions.4.Name	rsPort	Dimension name of the port of the real server	Enter a string-type dimension name, such as rsPort
Instances.N.Dimensions.4.Value	rsPort	Port of the real server	Enter a specific port number of the real server, such as 8080
Instances.N.Dimensions.5.Name	vpclId	Dimension name of the integer ID of the VPC instance to which the CLB instance belongs	Enter a string-type dimension name, such as vpclId

Parameter	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.5.Value	vpcId	Integer ID of the VPC instance to which the CLB instance belongs	Enter a specific integer ID of the VPC instance to which the CLB instance belongs, such as 1. You can obtain it from the <code>vpcId</code> field returned by the <a href="#">qDescribeVpcs</a> API

## Input Parameters

To query the monitoring data of the BM public network CLB instance, configure input parameters as follows:

BM public network CLB allows you to obtain monitoring data at the following four levels:

CLB, listener, listener server, and listener server port.

### 1. To obtain monitoring data at the CLB level, configure input parameters as follows:

```
&Namespace=QCE/BM_LB
```

```
&Instances.N.Dimensions.0.Name=vip
```

```
&Instances.N.Dimensions.0.Value=
```

### 2. To obtain monitoring data at the listener level, configure input parameters as follows:

```
&Namespace=QCE/BM_LB
```

```
&Instances.N.Dimensions.0.Name=vip
```

```
&Instances.N.Dimensions.0.Value=
```

```
&Instances.N.Dimensions.1.Name=protocol
```

```
&Instances.N.Dimensions.1.Value=
```

```
&Instances.N.Dimensions.2.Name=loadBalancerPort
```

```
&Instances.N.Dimensions.2.Value=
```

### 3. To obtain monitoring data at the listener server level, configure input parameters as follows:

```
&Namespace=QCE/BM_LB
```

```
&Instances.N.Dimensions.0.Name=vip
```

```
&Instances.N.Dimensions.0.Value=
```

```
&Instances.N.Dimensions.1.Name=protocol
```

```
&Instances.N.Dimensions.1.Value=
```

```
&Instances.N.Dimensions.2.Name=loadBalancerPort
```

```
&Instances.N.Dimensions.2.Value=
```

```
&Instances.N.Dimensions.3.Name=lanIp
```

```
&Instances.N.Dimensions.3.Value=
```

```
&Instances.N.Dimensions.4.Name=vpcId
```

```
&Instances.N.Dimensions.4.Value=
```

### 4. To obtain monitoring data at the listener server port level, configure input parameters as follows:

```
&Namespace=QCE/BM_LB
```

```
&Instances.N.Dimensions.0.Name=vip
```

```
&Instances.N.Dimensions.0.Value=
```

```
&Instances.N.Dimensions.1.Name=protocol
```

```
&Instances.N.Dimensions.1.Value=
```

```
&Instances.N.Dimensions.2.Name=loadBalancerPort
```

```
&Instances.N.Dimensions.2.Value=
```

```
&Instances.N.Dimensions.3.Name=lanIp
```

```
&Instances.N.Dimensions.3.Value=
```

```
&Instances.N.Dimensions.4.Name=rsPort
```

```
&Instances.N.Dimensions.4.Value=
```

```
&Instances.N.Dimensions.5.Name=vpcId
```

```
&Instances.N.Dimensions.5.Value=
```

# Block Storage Monitoring Metrics

Last updated : 2020-07-28 16:13:16

## Namespace

Namespace=QCE/BLOCK\_STORAGE

## Monitoring Metrics

Metric	Meaning	Description	Unit	Dimension
DiskReadIops	Disk read IOPS	Number of I/O reads from block storage to the memory per second	-	diskId
DiskReadTraffic	Disk read traffic	Rate at which data is read from block storage to the memory	KB/s	diskId
DiskWriteIops	Disk write IOPS	Number of I/O writes from the memory to block storage per second	-	diskId
DiskWriteTraffic	Disk write traffic	Rate at which data is written from the memory to block storage	KB/s	diskId
DiskAwait	Disk I/O waiting time	Percentage of time when the CPU is idle with pending I/O requests	ms	diskId
DiskSvcTm	Disk I/O service time	I/O service time	ms	diskId
DiskUtil	Ratio of busy disk I/O periods	Ratio of non-idle time during which I/O operations run on the disk	%	diskId
DiskUsage	Disk partition usage	Percentage of used disk partition capacity to the total capacity	%	Instanceld

### Note :

The statistical granularity ( `period` ) may vary by metrics. You can obtain the `period` supported by each metric by calling the [DescribeBaseMetrics](#) API.

## Overview of parameters in each dimension

Parameter	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	diskId	Dimension name of the block storage instance ID	Enter a string-type dimension name, such as diskId
Instances.N.Dimensions.0.Value	diskId	ID of the block storage instance	Enter a specific instance ID, such as disk-test
Instances.N.Dimensions.0.Name	Instanceld	Dimension name of the disk partition instance ID	Enter a string-type dimension name, such as Instanceld
Instances.N.Dimensions.0.Value	Instanceld	ID of the disk partition instance	Enter a specific instance ID, such as ins-mm8bs222

## Input Parameters

Block storage allows you to query monitoring data with the following two dimensional combinations. The input parameters are as follows:

### 1. To query the monitoring data of block storage, configure input parameters as follows:

```
&Namespace=QCE/BLOCK_STORAGE
&Instances.N.Dimensions.0.Name=diskId
&Instances.N.Dimensions.0.Value=
```

### 2. To query the disk partition usage of the server, configure input parameters as follows:



&Namespace=QCE/BLOCK\_STORAGE  
&Instances.N.Dimensions.0.Name=Instanceld  
&Instances.N.Dimensions.0.Value=

## EMR

### EMR (HDFS)

Last updated : 2020-07-28 16:16:57

## Namespace

Namespace=QCE/TXMR\_HDFS

## Monitoring Metrics

EMR (HDFS) provides the following metrics: [HDFS - Overview](#), [HDFS - OverviewAggregation](#), [HDFS - NameNode](#), [HDFS - DataNode](#), [HDFS - Journal Node](#), and [HDFS - ZKFC](#).

For more information on the parameters in each dimension, please see [Overview of the Parameters in Each Dimension](#).

### HDFS - Overview

Parameter	Metric Name	Unit	Description	Dimension
EmrHdfsOverview HdfsNnBlockCapacityTotal	Cluster storage capacity_CapacityTotal	GB	Total cluster storage capacity	host4hdfsoverview, id4hdfsoverview
EmrHdfsOverview HdfsNnBlockCapacityUsed	Cluster storage capacity_CapacityUsed	GB	Used cluster storage capacity	host4hdfsoverview, id4hdfsoverview
EmrHdfsOverview HdfsNnBlockCapacityRemaining	Cluster storage capacity_CapacityRemaining	GB	Remaining cluster storage capacity	host4hdfsoverview, id4hdfsoverview
EmrHdfsOverview HdfsNnBlockCapacityUsedNonDFS	Cluster storage capacity_CapacityUsedNonDFS	GB	Non-HDFS used cluster capacity	host4hdfsoverview, id4hdfsoverview
EmrHdfsOverview HdfsNnBlockTotalLoad	Cluster load_TotalLoad	Count	Number of current connections	host4hdfsoverview, id4hdfsoverview
EmrHdfsOverview HdfsNnBlockFilesTotal	Total number of cluster files_FilesTotal	Count	Total number of files	host4hdfsoverview, id4hdfsoverview
EmrHdfsOverview HdfsNnBlockBlockstotal	Number of blocks_BlocksTotal	Count	Total number of blocks	host4hdfsoverview, id4hdfsoverview
EmrHdfsOverview HdfsNnBlockPendingReplicationBlocks	Number of blocks_PendingReplicationBlocks	Count	Number of blocks waiting to be backed up	host4hdfsoverview, id4hdfsoverview
EmrHdfsOverview HdfsNnBlockUnderReplicatedBlocks	Number of blocks_UnderReplicatedBlocks	Count	Number of blocks with insufficient replicas	host4hdfsoverview, id4hdfsoverview
EmrHdfsOverview HdfsNnBlockBlocksCorruptblocks	Number of blocks_CorruptBlocks	Count	Number of corrupted blocks	host4hdfsoverview, id4hdfsoverview
EmrHdfsOverview HdfsNnBlockScheduledReplicationBlocks	Number of blocks_ScheduledReplicationBlocks	Count	Number of blocks arranged for backup	host4hdfsoverview, id4hdfsoverview
EmrHdfsOverview HdfsNnBlockPendingDeletionBlocks	Number of blocks_PendingDeletionBlocks	Count	Number of blocks waiting to be deleted	host4hdfsoverview, id4hdfsoverview
EmrHdfsOverview HdfsNnBlockCorruptblocks	Number of blocks_CorruptBlocks	Count	Number of excessive blocks	host4hdfsoverview, id4hdfsoverview
EmrHdfsOverview HdfsNnBlockPostponedMisreplicatedBlocks	Number of blocks_PostponedMisreplicatedBlocks	Count	Number of blocks with exceptions that were postponed to be processed	host4hdfsoverview, id4hdfsoverview
EmrHdfsOverview HdfsNnBlockBlockCapacity	Capacity of blocks_BlockCapacity	Count	Capacity of blocks	host4hdfsoverview, id4hdfsoverview

Parameter	Metric Name	Unit	Description	Dimension
EmrHdfsOverview HdfsNnBlockNumLiveDataNodes	Cluster DataNodes_NumLiveDataNodes	Count	Number of live DataNodes	host4hdfsoverview, id4hdfsoverview
EmrHdfsOverview HdfsNnBlockNumDeadDataNodes	Cluster DataNodes_NumDeadDataNodes	Count	Number of DataNodes marked as dead	host4hdfsoverview, id4hdfsoverview
EmrHdfsOverview HdfsNnBlockNumDecomLiveDataNodes	Cluster DataNodes_NumDecomLiveDataNodes	Count	Number of decommissioned live nodes	host4hdfsoverview, id4hdfsoverview
EmrHdfsOverview HdfsNnBlockNumDecomDeadDataNodes	Cluster DataNodes_NumDecomDeadDataNodes	Count	Number of decommissioned dead nodes	host4hdfsoverview, id4hdfsoverview
EmrHdfsOverview HdfsNnBlockNumDecommissioningDataNodes	Cluster DataNodes_NumDecommissioningDataNodes	Count	Number of decommissioning nodes	host4hdfsoverview, id4hdfsoverview
EmrHdfsOverview HdfsNnBlockNumStaleDataNodes	Cluster DataNodes_NumStaleDataNodes	Count	Number of current DataNodes marked as expired due to heartbeat delay	host4hdfsoverview, id4hdfsoverview
EmrHdfsOverview HdfsNnBlockSnapshots	Snapshots_Snapshots	Count	Number of snapshots	host4hdfsoverview, id4hdfsoverview
EmrHdfsOverview HdfsNnBlockVolumeFailuresTotal	Disk failures_VolumeFailuresTotal	Count	Total number of failures on all DataNodes	host4hdfsoverview, id4hdfsoverview

**HDFS - OverviewAggregation**

Parameter	Metric Name	Unit	Description	Dimension
EmrHdfsOverview Aggregation HdfsNnBlockCapacityTotal	Cluster storage capacity_CapacityTotal	GB	Total cluster storage capacity	id4hdfsoverview
EmrHdfsOverview Aggregation HdfsNnBlockCapacityUsed	Cluster storage capacity_CapacityUsed	GB	Used cluster storage capacity	id4hdfsoverview
EmrHdfsOverview AggregationHdfsNn BlockCapacityRemaining	Cluster storage capacity_CapacityRemaining	GB	Remaining cluster storage capacity	id4hdfsoverview
EmrHdfsOverview AggregationHdfsNn BlockCapacityUsedNonDFS	Cluster storage capacity_CapacityUsedNonDFS	GB	Non-HDFS used cluster capacity	id4hdfsoverview
EmrHdfsOverview AggregationHdfsNn BlockTotalLoad	Cluster load_TotalLoad	Count	Number of current connections	id4hdfsoverview
EmrHdfsOverview AggregationHdfsNn BlockFilesTotal	Total number of cluster files_FilesTotal	Count	Total number of files	id4hdfsoverview
EmrHdfsOverview AggregationHdfsNn BlockBlockstotal	Number of blocks_BlocksTotal	Count	Total number of blocks	id4hdfsoverview
EmrHdfsOverview AggregationHdfsNn BlockPending ReplicationBlocks	Number of blocks_PendingReplicationBlocks	Count	Number of blocks waiting to be backed up	id4hdfsoverview

Parameter	Metric Name	Unit	Description	Dimension
EmrHdfsOverview AggregationHdfsNn BlockUnder ReplicatedBlocks	Number of blocks_UnderReplicatedBlocks	Count	Number of blocks with insufficient replicas	id4hdfsoverview
EmrHdfsOverview AggregationHdfsNn BlockBlocksCorruptblocks	Number of blocks_CorruptBlocks	Count	Number of corrupted blocks	id4hdfsoverview
EmrHdfsOverview AggregationHdfsNn BlockScheduled ReplicationBlocks	Number of blocks_ScheduledReplicationBlocks	Count	Number of blocks arranged for backup	id4hdfsoverview
EmrHdfsOverview AggregationHdfsNn BlockPending DeletionBlocks	Number of blocks_PendingDeletionBlocks	Count	Number of blocks waiting to be deleted	id4hdfsoverview
EmrHdfsOverview AggregationHdfsNn BlockCorruptblocks	Number of blocks_CorruptBlocks	Count	Number of excessive blocks	id4hdfsoverview
EmrHdfsOverview AggregationHdfsNn BlockPostponed MisreplicatedBlocks	Number of blocks_PostponedMisreplicatedBlocks	Count	Number of blocks with exceptions that were postponed to be processed	id4hdfsoverview
EmrHdfsOverview AggregationHdfsNn BlockBlockCapacity	Capacity of blocks_BlockCapacity	Count	Capacity of blocks	id4hdfsoverview
EmrHdfsOverview AggregationHdfsNn BlockNumLiveDataNodes	Cluster DataNodes_NumLiveDataNodes	Count	Number of live DataNodes	id4hdfsoverview
EmrHdfsOverview AggregationHdfsNn BlockNumDeadDataNodes	Cluster DataNodes_NumDeadDataNodes	Count	Number of DataNodes marked as dead	id4hdfsoverview
EmrHdfsOverview AggregationHdfsNn BlockNum DecomLiveDataNodes	Cluster DataNodes_NumDecomLiveDataNodes	Count	Number of decommissioned live nodes	id4hdfsoverview
EmrHdfsOverview AggregationHdfsNn BlockNum DecomDeadDataNodes	Cluster DataNodes_NumDecomDeadDataNodes	Count	Number of decommissioned dead nodes	id4hdfsoverview
EmrHdfsOverview AggregationHdfsNn BlockNum DecommissioningDataNodes	Cluster DataNodes_NumDecommissioningDataNodes	Count	Number of decommissioning nodes	id4hdfsoverview
EmrHdfsOverview AggregationHdfsNn BlockNum StaleDataNodes	Cluster DataNodes_NumStaleDataNodes	Count	Number of current DataNodes marked as expired due to heartbeat delay	id4hdfsoverview
EmrHdfsOverview AggregationHdfsNn BlockSnapshots	Snapshots_Snapshots	Count	Number of snapshots	id4hdfsoverview
EmrHdfsOverview AggregationHdfsNn BlockVolumeFailuresTotal	Disk failures_VolumeFailuresTotal	Count	Total number of failures on all DataNodes	id4hdfsoverview

**HDFS - NameNode**

Parameter	Metric Name	Unit	Description	Dimension
HdfsNnPort4007RxtxReceivedbytes	Data traffic_ReceivedBytes	Bytes/s	Data receiving rate	host4hdfsnamecid4hdfsnamenode
HdfsNnPort4007RxtxSentbytes	Data traffic_SentBytes	Bytes/s	Data sending rate	host4hdfsnamecid4hdfsnamenode
HdfsNnPort4007Qps Rpcqueuetimenumops	QPS_RpcQueueTimeNumOps	Calls/s	RPC call rate	host4hdfsnamecid4hdfsnamenode
HdfsNnPort4007RtRpc queuetimeavgtime	Request processing delay _RpcQueueTimeAvgTime	ms	Average RPC delay	host4hdfsnamecid4hdfsnamenode
HdfsNnPort4007AuthRpc authenticationfailures	Authentication and authorization _RpcAuthenticationFailure	Count	Number of RPC authentication failures	host4hdfsnamecid4hdfsnamenode
HdfsNnPort4007AuthRpc authenticationsuccesses	Authentication and authorization _RpcAuthenticationSuccesses	Count	Number of RPC authentication successes	host4hdfsnamecid4hdfsnamenode
HdfsNnPort4007AuthRpc authorizationfailures	Authentication and authorization _RpcAuthorizationFailures	Count	Number of RPC authorization failures	host4hdfsnamecid4hdfsnamenode
HdfsNnPort4007AuthRpc authorizationsuccesses	Authentication and authorization _RpcAuthorizationSuccesses	Count	Number of RPC authorization successes	host4hdfsnamecid4hdfsnamenode
HdfsNnPort4007Connections Numopenconnections	Number of current connections _NumOpenConnections	Count	Number of current connections	host4hdfsnamecid4hdfsnamenode
HdfsNnPort4007Queue LenCallqueuelength	RPC processing queue length _CallQueueLength	Count	Length of current RPC processing queue	host4hdfsnamecid4hdfsnamenode
HdfsNnJvmMemMemnonheapusedm	JVM memory _MemNonHeapUsedM	MB	Size of the NonHeapMemory currently used by JVM	host4hdfsnamecid4hdfsnamenode
HdfsNnJvmMemMemnon heapcommittedm	JVM memory _MemNonHeapCommittedM	MB	JVM memory	host4hdfsnamecid4hdfsnamenode
HdfsNnJvmMemMemheapusedm	JVM memory _MemHeapUsedM	MB	Size of the HeapMemory currently used by JVM	host4hdfsnamecid4hdfsnamenode
HdfsNnJvmMem Memheapcommittedm	JVM memory _MemHeapCommittedM	MB	Size of the HeapMemory committed by JVM	host4hdfsnamecid4hdfsnamenode
HdfsNnJvmMemMemheapmaxm	JVM memory_MemHeapMaxM	MB	Size of the HeapMemory configured by JVM	host4hdfsnamecid4hdfsnamenode
HdfsNnJvmMemMemmaxm	JVM memory_MemMaxM	MB	Maximum memory size that can be used by JVM during runtime	host4hdfsnamecid4hdfsnamenode
HdfsNnBlockReportRt Blockreportavgtime	Block reporting delay _BlockReportAvgTime	Blocks/s	Average delay in processing DataNode blocks per second	host4hdfsnamecid4hdfsnamenode
HdfsNnGcUtilGcCountFgc	GC count_FGC	Operations/s	Full GC count	host4hdfsnamecid4hdfsnamenode
HdfsNnGcUtilGcCountYgc	GC count_YGC	2 operations/s	Young GC count	host4hdfsnamecid4hdfsnamenode
HdfsNnGcUtilGcTimeYgct	GC time_YGCT	ms	Time consumed by Young GC	host4hdfsnamecid4hdfsnamenode
HdfsNnGcUtilGcTimeFgct	GC time_FGCT	ms	Time consumed by Full GC	host4hdfsnamecid4hdfsnamenode
HdfsNnGcUtilGcTimeGct	GC time_GCT	ms	Time used to collect garbage	host4hdfsnamecid4hdfsnamenode
HdfsNnJvmJavaThreadsThreadsnew	Number of JVM threads _ThreadsNew	Count	Number of threads in the new state	host4hdfsnamecid4hdfsnamenode

Parameter	Metric Name	Unit	Description	Dimension
HdfsNnJvmJavaThreads ThreadsRunnable	Number of JVM threads _ThreadsRunnable	Count	Number of threads in the runnable state	host4hdfsnamecn id4hdfsnamenode
HdfsNnJvmJavaThreads ThreadsBlocked	Number of JVM threads _ThreadsBlocked	Count	Number of threads in the blocked state	host4hdfsnamecn id4hdfsnamenode
HdfsNnJvmJavaThreads ThreadsWaiting	Number of JVM threads _ThreadsWaiting	Count	Number of threads in the WAITING state	host4hdfsnamecn id4hdfsnamenode
HdfsNnJvmJavaThreads Threadstimedwaiting	Number of JVM threads _ThreadsTimedWaiting	Count	Number of threads in the TIMED WAITING state	host4hdfsnamecn id4hdfsnamenode
HdfsNnJvmJavaThreads Threadsterminated	Number of JVM threads _ThreadsTerminated	Count	Number of threads in the Terminated state	host4hdfsnamecn id4hdfsnamenode
HdfsNnJvmLogTotalLogfatal	Number of JVM logs_LogFatal	Count	Number of Fatal logs	host4hdfsnamecn id4hdfsnamenode
HdfsNnJvmLogTotalLogerror	Number of JVM logs_LogError	Count	Number of Error logs	host4hdfsnamecn id4hdfsnamenode
HdfsNnJvmLogTotalLogwarn	Number of JVM logs_LogWarn	Count	Number of Warn logs	host4hdfsnamecn id4hdfsnamenode
HdfsNnJvmLogTotalLoginfo	Number of JVM logs_LogInfo	Count	Number of Info logs	host4hdfsnamecn id4hdfsnamenode
HdfsNnGcUtilMemoryS0	Memory space percentage_S0	%	Percentage of used Survivor 0 memory	host4hdfsnamecn id4hdfsnamenode
HdfsNnGcUtilMemoryS1	Memory space percentage_S1	%	Percentage of used Survivor 1 memory	host4hdfsnamecn id4hdfsnamenode
HdfsNnGcUtilMemoryE	Memory space percentage_E	%	Percentage of used Eden memory	host4hdfsnamecn id4hdfsnamenode
HdfsNnGcUtilMemoryO	Memory space percentage_O	%	Percentage of used Old memory	host4hdfsnamecn id4hdfsnamenode
HdfsNnGcUtilMemoryM	Memory space percentage_M	%	Percentage of used Metaspace memory	host4hdfsnamecn id4hdfsnamenode
HdfsNnGcUtilMemoryCcs	Memory space percentage_CCS	%	Percentage of memory used by compressed class space	host4hdfsnamecn id4hdfsnamenode
HdfsNnStaleStorages CountNumstalestorages	Number of storages marked as expired _NumStaleStorages	Count	Number of current DataNodes marked as expired due to heartbeat delay	host4hdfsnamecn id4hdfsnamenode
HdfsNnPendingDatanodeMessage CountPendingdatanode messagecount	Number of pending block operation messages on the standby NameNode _PendingDataNode MessageCount	Requests/s	Number of DataNode requests queued on the standby NameNode	host4hdfsnamecn id4hdfsnamenode
HdfsNnBlocksMissingNum berofmissingblocks	Total number of missing blocks _NumberOfMissingBlocks	Count	Number of missing data blocks	host4hdfsnamecn id4hdfsnamenode
HdfsNnBlocksMissingNumberof missingblockswithreplication factorOne	Total number of missing blocks_NumberOf MissingBlocksWithReplication FactorOne	Count	Number of missing blocks (rf = 1)	host4hdfsnamecn id4hdfsnamenode
HdfsNnSnapshotOpsAllowssnapshotops	Snapshot operations _AllowSnapshotOps	Operations/s	Number of AllowSnapshot operations executed per second	host4hdfsnamecn id4hdfsnamenode

Parameter	Metric Name	Unit	Description	Dimension
HdfsNnSnapshotOps Disallowsnapshotops	Snapshot operations _DisallowSnapshotOps	Operations/s	Number of DisallowSnapshot operations executed per second	host4hdfsname id4hdfsname node
HdfsNnSnapshotOps Createsnapshotops	Snapshot operations _CreateSnapshotOps	Operations/s	Number of CreateSnapshot operations executed per second	host4hdfsname id4hdfsname node
HdfsNnSnapshotOps Deletesnapshotops	Snapshot operations _DeleteSnapshotOps	Operations/s	Number of DeleteSnapshot operations executed per second	host4hdfsname id4hdfsname node
HdfsNnSnapshotOps Listsnaphottabledirops	Snapshot operations _ListSnaphottableDirOps	Operations/s	Number of ListSnaphottableDir operations executed per second	host4hdfsname id4hdfsname node
HdfsNnSnapshotOps Snapshotdiffreportops	Snapshot operations _SnapshotDiffReportOps	Operations/s	Number of SnapshotDiffReportOps operations executed per second	host4hdfsname id4hdfsname node
HdfsNnSnapshotOps Renamesnapshotops	Snapshot operations _RenameSnapshotOps	Operations/s	Number of RenameSnapshotOps operations executed per second	host4hdfsname id4hdfsname node
HdfsNnFilesOps Createfileops	File operations _CreateFileOps	Operations/s	Number of CreateFile operations executed per second	host4hdfsname id4hdfsname node
HdfsNnFilesOps Getlistingops	File operations _GetListingOps	Operations/s	Number of GetListing operations executed per second	host4hdfsname id4hdfsname node
HdfsNnFilesOps Totalfileops	File operations _TotalFileOps	Operations/s	Number of TotalFileOps operations executed per second	host4hdfsname id4hdfsname node
HdfsNnFilesOps Deletefileops	File operations _DeleteFileOps	Operations/s	Number of DeleteFile operations executed per second	host4hdfsname id4hdfsname node
HdfsNnFilesOps Fileinfoops	File operations _FileInfoOps	Operations/s	Number of FileInfo operations executed per second	host4hdfsname id4hdfsname node
HdfsNnFilesOps Getadditional datanodeops	File operations _GetAdditionalDatanodeOps	Operations/s	Number of GetAdditionalDatanode operations executed per second	host4hdfsname id4hdfsname node
HdfsNnFilesOps Createsymlinkops	File operations _CreateSymlinkOps	Operations/s	Number of CreateSymlink operations executed per second	host4hdfsname id4hdfsname node
HdfsNnFilesOps Getlinktargetops	File operations _GetLinkTargetOps	Operations/s	Number of GetLinkTarget operations executed per second	host4hdfsname id4hdfsname node
HdfsNnFilesOps Filesin getlistingops	File operations _FilesInGetListingOps	Operations/s	Number of FilesInGetListing operations executed per second	host4hdfsname id4hdfsname node
HdfsNnTransactionOps Transactionsnumops	Transaction operations _TransactionsNumOps	Operations/s	Number of Journal transaction operations processed per second	host4hdfsname id4hdfsname node

Parameter	Metric Name	Unit	Description	Dimension
HdfsNnTransactionOps Transactionsbatchedinsync	Transaction operations _TransactionsBatchedInSync	Operations/s	Number of Journal transaction operations processed in batches per second	host4hdfsname id4hdfsname node
HdfsNnImageOpsGeteditnumops	Image operations_GetEditNumOps	Operations/s	Number of GetEditNumOps operations executed per second	host4hdfsname id4hdfsname node
HdfsNnImageOpsGetimagenumops	Image operations_GetImageNumOps	Operations/s	Number of GetImageNumOps operations executed per second	host4hdfsname id4hdfsname node
HdfsNnImageOpsPutimagenumops	Image operations_PutImageNumOps	Operations/s	Number of PutImageNumOps operations executed per second	host4hdfsname id4hdfsname node
HdfsNnSyncsOpsSyncsnumops	Sync operations_SyncsNumOps	Operations/s	Number of Journal syncs operations processed per second	host4hdfsname id4hdfsname node
HdfsNnBlocksOpsBlock receivedanddeletedops	Data block operations _BlockOpsQueued	Operations/s	Number of BlockReceivedAndDeletedOps operations executed per second	host4hdfsname id4hdfsname node
HdfsNnBlocksOpsBlockopsqueued	Data block operations _BlockOpsQueued	Operations/s	Delay in processing DataNode block reporting operations	host4hdfsname id4hdfsname node
HdfsNnCacheReportOps Cachereportnumops	Cache reporting _CacheReportNumOps	Operations/s	Number of CacheReport operations processed per second	host4hdfsname id4hdfsname node
HdfsNnBlockReportOps Blockreportnumops	Block reporting _BlockReportNumOps	Operations/s	Number of DataNode block reporting operations processed per second	host4hdfsname id4hdfsname node
HdfsNnSyncsRtSyncsavgtime	Sync operation delay_SyncsAvgTime	ms	Average delay in processing Journal syncs operations	host4hdfsname id4hdfsname node
HdfsNnCacheReportRt Cachereportavgtime	Cache reporting delay_CacheReportAvgTime	ms	Average delay in cache reporting operations	host4hdfsname id4hdfsname node
HdfsNnImageRtGeteditavgtime	Image operation delay_GetEditAvgTime	ms	Average delay in reading the Edit file	host4hdfsname id4hdfsname node
HdfsNnImageRtGetimageavgtime	Image operation delay_GetImageAvgTime	ms	Average delay in reading the image file	host4hdfsname id4hdfsname node
HdfsNnImageRtPutimageavgtime	Image operation delay_PutImageAvgTime	ms	Average delay in writing the image file	host4hdfsname id4hdfsname node
HdfsNnTransactionRt Transactionsavgtime	Transaction operation delay_TransactionsAvgTime	ms	Average delay in processing Journal transaction operations	host4hdfsname id4hdfsname node
HdfsNnStartTimeStarttime	Start time_StartTime	ms	Process start time	host4hdfsname id4hdfsname node
HdfsNnStateState	Primary/secondary status_State	-	NN status	host4hdfsname id4hdfsname node
HdfsNnThreadCountPeakthreadcount	Number of threads_PeakThreadCount	Count	Peak number of threads	host4hdfsname id4hdfsname node
HdfsNnThreadCountThreadcount	Number of threads_ThreadCount	Count	Number of threads	host4hdfsname id4hdfsname node
HdfsNnThreadCount Daemonthreadcount	Number of threads_DaemonThreadCount	Count	Number of background threads	host4hdfsname id4hdfsname node



## HDFS - DataNode

Parameter	Metric Name	Unit	Description	Dimension
HdfsDnXceiverXceivercount	Number of Xceivers_XceiverCount	Xceivers	Number of Xceivers	id4hdfsdatanode, host4hdfsdatanode
HdfsDnBytesByteswrittenmb	Data read/write rate_BytesReadMB	Bytes/s	DN byte write rate	id4hdfsdatanode, host4hdfsdatanode
HdfsDnBytesBytesreadmb	Data read/write rate_BytesReadMB	Bytes/s	DN byte read rate	id4hdfsdatanode, host4hdfsdatanode
HdfsDnBytesRemotebytesreadmb	Data read/write rate_RemoteBytesReadMB	Bytes/s	Rate of bytes read by the remote client	id4hdfsdatanode, host4hdfsdatanode
HdfsDnBytesRemotebyteswrittenmb	Data read/write rate_RemoteBytesWrittenMB	Bytes/s	Rate of bytes written by the remote client	id4hdfsdatanode, host4hdfsdatanode
HdfsDnClientWritesfromremoteclient	Number of client connections_WritesFromRemoteClient	Count	QPS of write operations from the remote client	id4hdfsdatanode, host4hdfsdatanode
HdfsDnClientWritesfromlocalclient	Number of client connections_WritesFromLocalClient	Count	OPS of write operations from the local client	id4hdfsdatanode, host4hdfsdatanode
HdfsDnClientReadsfromremoteclient	Number of client connections_ReadsFromRemoteClient	Count	QPS of read operations from the remote client	id4hdfsdatanode, host4hdfsdatanode
HdfsDnClientReadsfromlocalclient	Number of client connections_ReadsFromLocalClient	Count	QPS of read operations from the local client	id4hdfsdatanode, host4hdfsdatanode
HdfsDnBlocksVerifiedFailuresBlockverificationfailures	Block check failure_BlockVerificationFailures	Failures/s	Number of block check failures	id4hdfsdatanode, host4hdfsdatanode
HdfsDnVolumeFailuresVolumefailures	Disk failures_VolumeFailures	Failures/s	Number of disk failures	id4hdfsdatanode, host4hdfsdatanode
HdfsDnNetworkErrorsDatanodenetworkerrors	Network errors_DatanodeNetworkErrors	Errors/s	Total number of network errors	id4hdfsdatanode, host4hdfsdatanode
HdfsDnHbRtHeartbeatsavgtime	Heartbeat delay_HeartbeatsAvgTime	ms	Average heartbeat API time	id4hdfsdatanode, host4hdfsdatanode
HdfsDnHbOpsHeartbeatsnumops	Heartbeat QPS_HeartbeatsNumOps	Heartbeats/s	Heartbeat API QPS	id4hdfsdatanode, host4hdfsdatanode
HdfsDnDatapacketAvgtimeSenddatapackettransfer nanosavgtime	Packet transfer operations QPS_SendDataPacketTransferNanosAvgTime	ms	Average data packet sending time	id4hdfsdatanode, host4hdfsdatanode
HdfsDnBlocksOpsReadblockopnumops	Data block operations_ReadBlockOpNumOps	Operations/s	OPS of block reads from the DataNode	id4hdfsdatanode, host4hdfsdatanode
HdfsDnBlocksOpsWriteblockopnumops	Data block operations_WriteBlockOpNumOps	Operations/s	OPS of block writes to the DataNode	id4hdfsdatanode, host4hdfsdatanode
HdfsDnBlocksOpsBlockchecksumopnumops	Data block operations_BlockChecksumOpNumOps	Operations/s	OPS of Checksum operations by the DataNode	id4hdfsdatanode, host4hdfsdatanode
HdfsDnBlocksOpsCopyblockopnumops	Data block operations_CopyBlockOpNumOps	Operations/s	OPS of block copying operations	id4hdfsdatanode, host4hdfsdatanode
HdfsDnBlocksOpsReplaceblockopnumops	Data block operations_ReplaceBlockOpNumOps	Operations/s	OPS of Replace Block operations	id4hdfsdatanode, host4hdfsdatanode
HdfsDnBlocksOpsBlockreportsnumops	Data block operations_BlockReportsNumOps	Operations/s	OPS of block reporting operations	id4hdfsdatanode, host4hdfsdatanode
HdfsDnBlocksOpsIncrementalblockreports numops	Data block operations_IncrementalBlockReportsNumOps	Operations/s	OPS of incremental block reporting	id4hdfsdatanode, host4hdfsdatanode

Parameter	Metric Name	Unit	Description	Dimension
HdfsDnBlocksOpsCache reportsnumops	Data block operations _CacheReportsNumOps	Operations/s	OPS of cache reporting	id4hdfsdatanode, host4hdfsdatanode
HdfsDnBlocksOpsPacketack roundtriptimenanos numops	Data block operations _PacketAckRoundTripTimeNanos NumOps	Operations/s	Number of ACK ROUND TRIP operations processed per second	id4hdfsdatanode, host4hdfsdatanode
HdfsDnFsyncOpsFsync nanosnumops	Fsync operations _FsyncNanosNumOps	Operations/s	Number of Fsync operations	id4hdfsdatanode, host4hdfsdatanode
HdfsDnFlushOpsFlush nanosnumops	Flush operations _FlushNanosNumOps	Operations/s	Number of Flush operations processed per second	id4hdfsdatanode, host4hdfsdatanode
HdfsDnBlocksRtRead blockopavgtime	Data block operation delay _ReadBlockOpAvgTime	ms	Average block read time	id4hdfsdatanode, host4hdfsdatanode
HdfsDnBlocksRtWrite blockopavgtime	Data block operation delay _ReplaceBlockOpAvgTime	ms	Average block write time	id4hdfsdatanode, host4hdfsdatanode
HdfsDnBlocksRtBlock checksumopavgtime	Data block operation delay _BlockChecksumOpAvgTime	ms	Average block check time	id4hdfsdatanode, host4hdfsdatanode
HdfsDnBlocksRtCopy blockopavgtime	Data block operation delay _CopyBlockOpAvgTime	ms	Average block copy time	id4hdfsdatanode, host4hdfsdatanode
HdfsDnBlocksRt Replaceblockopavgtime	Data block operation delay _Replaceblockopavgtime	ms	Average Replace Block operation time	id4hdfsdatanode, host4hdfsdatanode
HdfsDnBlocksRtBlock reportsavgtime	Data block operation delay _BlockReportsAvgTime	ms	Average block reporting time	id4hdfsdatanode, host4hdfsdatanode
HdfsDnBlocksRtIncremental blockreportsavgtime	Data block operation delay _IncrementalBlockReportsAvgTime	ms	Average time of incremental block reporting	id4hdfsdatanode, host4hdfsdatanode
HdfsDnBlocksRtCache reportsavgtime	Data block operation delay _CacheReportsAvgTime	ms	Average time of cache reporting	id4hdfsdatanode, host4hdfsdatanode
HdfsDnBlocksRtPacketack roundtriptimenanos avgtime	Data block operation delay _PacketAckRoundTripTimeNanos AvgTime	ms	Average time of processing ACK ROUND TRIP	id4hdfsdatanode, host4hdfsdatanode
HdfsDnFlushRtFlushnanosavgtime	Flush delay _FlushNanosAvgTime	ms	Average Flush operation time	id4hdfsdatanode, host4hdfsdatanode
HdfsDnFsyncRtFsyncnanosavgtime	Fsync delay _FsyncNanosAvgTime	ms	Average Fsync operation time	id4hdfsdatanode, host4hdfsdatanode
HdfsDnRamBlocksOp Ramdiskblockswrite	RAMDISKBlocks_Ram DiskBlocksWrite	Blocks/s	Total number of blocks written to the memory	id4hdfsdatanode, host4hdfsdatanode
HdfsDnRamBlocksOp Ramdiskblockswritefallback	RAMDISKBlocks_Ram DiskBlocksWriteFallback	Blocks/s	Total number of blocks failed to be written to the memory (failover to the disk)	id4hdfsdatanode, host4hdfsdatanode
HdfsDnRamBlocksOpRamdisk blocksdeletedbeforelazypersisted	RAMDISKBlocks_RamDiskBlocks DeletedBeforeLazyPersisted	Blocks/s	Total number of blocks deleted before the application is saved to the disk	id4hdfsdatanode, host4hdfsdatanode
HdfsDnRamBlocksOp Ramdiskblocksreadhits	RAMDISKBlocks_Ram DiskBlocksReadHits	Blocks/s	Total number of reads from the blocks in the memory	id4hdfsdatanode, host4hdfsdatanode
HdfsDnRamBlocksOp Ramdiskblocksevicted	RAMDISKBlocks_Ram DiskBlocksEvicted	Blocks/s	Total number of blocks cleared in the memory	id4hdfsdatanode, host4hdfsdatanode
HdfsDnRamBlocksOpRamdisk blocksevictedwithoutread	RAMDISKBlocks_RamDiskBlocks EvictedWithoutRead	Blocks/s	Total number of blocks retrieved from the memory	id4hdfsdatanode, host4hdfsdatanode
HdfsDnRamBlocksOp Ramdiskblockslazypersisted	RAMDISKBlocks_RamDisk BlocksLazyPersisted	Blocks/s	Number of disk writes by the lazy writer	id4hdfsdatanode, host4hdfsdatanode

Parameter	Metric Name	Unit	Description	Dimension
HdfsDnRamBlocksOp Ramdiskbyteslazypersisted	RAMDISKBlocks_Ram DiskBytesLazyPersisted	Bytes/s	Total number of bytes written to the disk by the lazy writer	id4hdfsdatanode, host4hdfsdatanode
HdfsDnRamBlocksBytes Ramdiskbyteswrite	RAM Disk write speed_RamDiskBytesWrite	Bytes/s	Total number of bytes written to the memory	id4hdfsdatanode, host4hdfsdatanode
HdfsDnJvmMem Memnonheapusedm	JVM memory _MemNonHeapUsedM	MB	Size of the NonHeapMemory currently used by JVM	id4hdfsdatanode, host4hdfsdatanode
HdfsDnJvmMem Memnonheapcommittedm	JVM memory _MemNonHeapCommittedM	MB	Size of the NonHeapCommittedM configured by JVM	id4hdfsdatanode, host4hdfsdatanode
HdfsDnJvmMemMemheapusedm	JVM memory _MemHeapUsedM	MB	Size of the HeapMemory currently used by JVM	id4hdfsdatanode, host4hdfsdatanode
HdfsDnJvmMem Memheapcommittedm	JVM memory _MemHeapCommittedM	MB	Size of the HeapMemory committed by JVM	id4hdfsdatanode, host4hdfsdatanode
HdfsDnJvmMemMemheapmaxm	JVM memory _MemHeapMaxM	MB	Size of the HeapMemory configured by JVM	id4hdfsdatanode, host4hdfsdatanode
HdfsDnJvmMemMemmaxm	JVM memory _MemMaxM	MB	Maximum memory size that can be used by JVM during runtime	id4hdfsdatanode, host4hdfsdatanode
HdfsDnJvmJavaThreadsThreadsnew	Number of JVM threads _ThreadsNew	Count	Number of threads in the new state	id4hdfsdatanode, host4hdfsdatanode
HdfsDnJvmJavaThreads Threadsrunnable	Number of JVM threads _ThreadsRunnable	Count	Number of threads in the runnable state	id4hdfsdatanode, host4hdfsdatanode
HdfsDnJvmJavaThreads Threadsblocked	Number of JVM threads _ThreadsBlocked	Count	Number of threads in the blocked state	id4hdfsdatanode, host4hdfsdatanode
HdfsDnJvmJavaThreads Threadswaiting	Number of JVM threads _ThreadsWaiting	Count	Number of threads in the WAITING state	id4hdfsdatanode, host4hdfsdatanode
HdfsDnJvmJavaThreads Threadstimedwaiting	Number of JVM threads _ThreadsTimedWaiting	Count	Number of threads in the TIMED WAITING state	id4hdfsdatanode, host4hdfsdatanode
HdfsDnJvmJavaThreads Threadsterminated	Number of JVM threads _ThreadsTerminated	Count	Number of threads in the Terminated state	id4hdfsdatanode, host4hdfsdatanode
HdfsDnJvmLogTotalLogfatal	Number of JVM logs_LogFatal	Count	Number of Fatal logs	id4hdfsdatanode, host4hdfsdatanode
HdfsDnJvmLogTotalLogerror	Number of JVM logs_LogError	Count	Number of Error logs	id4hdfsdatanode, host4hdfsdatanode
HdfsDnJvmLogTotalLogwarn	Number of JVM logs_LogWarn	Count	Number of Warn logs	id4hdfsdatanode, host4hdfsdatanode
HdfsDnJvmLogTotalLoginfo	Number of JVM logs_LogInfo	Count	Number of Info logs	id4hdfsdatanode, host4hdfsdatanode
HdfsDnGcUtilMemoryS0	Memory space percentage_S0	%	Percentage of used Survivor 0 memory	id4hdfsdatanode, host4hdfsdatanode
HdfsDnGcUtilMemoryS1	Memory space percentage_S1	%	Percentage of used Survivor 1 memory	id4hdfsdatanode, host4hdfsdatanode
HdfsDnGcUtilMemoryE	Memory space percentage_E	%	Percentage of used Eden memory	id4hdfsdatanode, host4hdfsdatanode
HdfsDnGcUtilMemoryO	Memory space percentage_O	%	Percentage of used Old memory	id4hdfsdatanode, host4hdfsdatanode
HdfsDnGcUtilMemoryM	Memory space percentage_M	%	Percentage of used Metaspace memory	id4hdfsdatanode, host4hdfsdatanode

Parameter	Metric Name	Unit	Description	Dimension
HdfsDnGcUtilMemoryCcs	Memory space percentage_CCS	%	Percentage of memory used by compressed class space	id4hdfsdatanode, host4hdfsdatanode
HdfsDnGcUtilGcCountFgc	GC count_FGC	Count	Full GC count	id4hdfsdatanode, host4hdfsdatanode
HdfsDnGcUtilGcCountYgc	GC count_YGC	Count	Young GC count	id4hdfsdatanode, host4hdfsdatanode
HdfsDnGcUtilGcTimeYgct	GC time_YGCT	s	Time consumed by Young GC	id4hdfsdatanode, host4hdfsdatanode
HdfsDnGcUtilGcTimeFgct	GC time_FGCT	s	Time consumed by Full GC	id4hdfsdatanode, host4hdfsdatanode
HdfsDnGcUtilGcTimeGct	GC time_GCT	s	Time used to collect garbage	id4hdfsdatanode, host4hdfsdatanode
HdfsDnPort4004RtxReceivedbytes	Data traffic_ReceivedBytes	Bytes/s	Data receiving rate	id4hdfsdatanode, host4hdfsdatanode
HdfsDnPort4004RtxSentbytes	Data traffic_SentBytes	Bytes/s	Data sending rate	id4hdfsdatanode, host4hdfsdatanode
HdfsDnPort4004QpsRpc queue timenumops	QPS_RpcQueueTimeNumOps	Queries/s	RPC call rate	id4hdfsdatanode, host4hdfsdatanode
HdfsDnPort4004RtRpc queue timeavgtime	Request processing delay_RpcQueueTimeAvgTime	ms	Average RPC delay	id4hdfsdatanode, host4hdfsdatanode
HdfsDnPort4004AuthRpc authenticationfailures	Authentication and authorization_RpcAuthenticationFailures	Failures/s	Number of RPC authentication failures	id4hdfsdatanode, host4hdfsdatanode
HdfsDnPort4004AuthRpc authenticationsuccesses	Authentication and authorization_RpcAuthenticationSuccesses	Successes/s	Number of RPC authentication successes	id4hdfsdatanode, host4hdfsdatanode
HdfsDnPort4004AuthRpc authorizationfailures	Authentication and authorization_RpcAuthorizationFailures	Failures/s	Number of RPC authorization failures	id4hdfsdatanode, host4hdfsdatanode
HdfsDnPort4004AuthRpc authorizationsuccesses	Authentication and authorization_RpcAuthorizationSuccesses	Successes/s	Number RPC authorization successes	id4hdfsdatanode, host4hdfsdatanode
HdfsDnPort4004Connections Numopenconnections	Number of current connections_NumOpenConnections	Count	Number of current connections	id4hdfsdatanode, host4hdfsdatanode
HdfsDnPort4004QueueLen Callqueue length	RPC processing queue length_CallQueueLength	Count	Length of the current RPC processing queue	id4hdfsdatanode, host4hdfsdatanode
HdfsDnThreadTimeCurrent threadcputime	CPU time_CurrentThreadCpuTime	ms	CPU time	id4hdfsdatanode, host4hdfsdatanode
HdfsDnThreadTimeCurrent threadusertime	CPU time_CurrentThreadUserTime	ms	User time	id4hdfsdatanode, host4hdfsdatanode
HdfsDnStartTimeStarttime	Start time_StartTime	s	Process start time	id4hdfsdatanode, host4hdfsdatanode
HdfsDnThreadCount Peakthreadcount	Number of threads_PeakThreadCount	Count	Peak number of threads	id4hdfsdatanode, host4hdfsdatanode
HdfsDnThreadCount Daemonthreadcount	Number of threads_DaemonThreadCount	Count	Number of background threads	id4hdfsdatanode, host4hdfsdatanode
HdfsDnRtWrit	Read/write delay_Write	MB/s	Disk write rate	id4hdfsdatanode, host4hdfsdatanode
HdfsDnRtRead	Read/write delay_Read	Queries/s	Read QPS	id4hdfsdatanode, host4hdfsdatanode

Parameter	Metric Name	Unit	Description	Dimension
HdfsDnDatapacketOps Datapacketops	Packet transfer QPS_DataPacketOps	Queries/s	Packet transfer QPS	id4hdfsdatanode, host4hdfsdatanode

**HDFS - Journal Node**

Parameter	Metric Name	Unit	Description	Dimension
HdfsJnJvmMemMemnon heapusedm	JVM memory_MemNonHeapUsedM	MB	Size of the NonHeapMemory currently used by JVM	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnJvmMemMemnon heapcommittedm	JVM memory_MemNonHeapCommittedM	MB	JVM memory	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnJvmMemMem heapusedm	JVM memory_MemHeapUsedM	MB	Size of the HeapMemory currently used by JVM	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnJvmMemMem heapcommittedm	JVM memory_MemHeapCommittedM	MB	Size of the HeapMemory committed by JVM	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnJvmMemMem heapmaxm	JVM memory_MemHeapMaxM	MB	Size of the HeapMemory configured by JVM	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnJvmMemMemmaxm	JVM memory_MemMaxM	MB	Maximum memory size that can be used by JVM during runtime	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnJvmJavaThreads Threadsnew	Number of JVM threads_ThreadsNew	Count	Number of threads in the new state	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnJvmJavaThreads Threadsrunnable	Number of JVM threads_ThreadsRunnable	Count	Number of threads in the runnable state	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnJvmJavaThreads Threadsblocked	Number of JVM threads_ThreadsBlocked	Count	Number of threads in the blocked state	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnJvmJavaThreads Threadswaiting	Number of JVM threads_ThreadsWaiting	Count	Number of threads in the WAITING state	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnJvmJavaThreads Threadstimedwaiting	Number of JVM threads_ThreadsTimedWaiting	Count	Number of threads in the TIMED WAITING state	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnJvmJavaThreads Threadsterminated	Number of JVM threads_ThreadsTerminated	Count	Number of threads in the Terminated state	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnJvmLogTotalLogfatal	Number of JVM logs_LogFatal	Count	Number of Fatal logs	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnJvmLogTotalLogerror	Number of JVM logs_LogError	Count	Number of Error logs	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnJvmLogTotalLogwarn	Number of JVM logs_LogWarn	Count	Number of Warn logs	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnJvmLogTotalLoginfo	Number of JVM logs_LogInfo	Count	Number of Info logs	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnGcUtilMemoryS0	Memory space percentage_S0	%	Percentage of used Survivor 0 memory	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnGcUtilMemoryS1	Memory space percentage_S1	%	Percentage of used Survivor 1 memory	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnGcUtilMemoryE	Memory space percentage_E	%	Percentage of used Eden memory	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnGcUtilMemoryO	Memory space percentage_O	%	Percentage of used Old memory	host4hdfsjournalnode, id4hdfsjournalnode

Parameter	Metric Name	Unit	Description	Dimension
HdfsJnGcUtilMemoryM	Memory space percentage_M	%	Percentage of used Metaspace memory	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnGcUtilMemoryCcs	Memory space percentage_CCS	%	Percentage of memory used by compressed class space	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnGcUtilGcCountFgc	GC count_FGC	Count	Full GC count	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnGcUtilGcCountYgc	GC count_YGC	Count	Young GC count	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnGcUtilGcTimeYgct	GC time_YGCT	s	Time consumed by Young GC	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnGcUtilGcTimeFgct	GC time_FGCT	s	Time consumed by Full GC	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnGcUtilGcTimeGct	GC time_GC	s	Time used to collect garbage	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnPort4005RtxReceivedbytes	Data traffic_ReceivedBytes	Bytes/s	Data receiving rate	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnPort4005RtxReceivedbytes	Data traffic_ReceivedBytes	Bytes/s	Data sending rate	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnPort4005QpsRpcqueuetimenumops	QPS_RpcQueueTimeNumOps	Queries/s	RPC call rate	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnPort4005RtRpcqueuetimeavgtime	Request processing delay_RpcQueueTimeAvgTime	ms	Average RPC delay	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnPort4005AuthRpcauthenticationfailures	Authentication and authorization_RpcAuthenticationFailures	Failures/s	Number of RPC authentication failures	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnPort4005AuthRpcauthorizationsuccesses	Authentication and authorization_RpcAuthorizationSuccesses	Successes/s	Number of RPC authorization successes	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnPort4005AuthRpcauthenticationsuccesses	Authentication and authorization_RpcAuthenticationSuccesses	Successes/s	Number of RPC authentication successes	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnPort4005AuthRpcauthorizationfailures	Authentication and authorization_RpcAuthorizationFailures	Failures/s	Number of RPC authorization failures	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnPort4005ConnectionsNumopenconnections	Number of current connections_NumOpenConnections	Count	Number of current connections	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnPort4005QueueLenCallqueuelength	RPC processing queue length_CallQueueLength	Count	Length of the current RPC processing queue	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnThreadTimeCurrentthreadcputime	CPU time_CurrentThreadCpuTime	ms	CPU time	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnThreadTimeCurrentthreadusertime	CPU time_CurrentThreadUserTime	ms	User time	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnStartTimeStarttime	Start time_StartTime	s	Process start time	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnThreadCountThreadcount	Number of threads_ThreadCount	Count	Number of threads	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnThreadCountPeakthreadcount	Number of threads_PeakThreadCount	Count	Peak number of threads	host4hdfsjournalnode, id4hdfsjournalnode
HdfsJnThreadCountDaemonthreadcount	Number of threads_DaemonThreadCount	Count	Number of background threads	host4hdfsjournalnode, id4hdfsjournalnode

## HDFS - ZKFC

Parameter	Metric Name	Unit	Description	Dimension
HdfsDfzkGcUtilMemoryS0	Memory space percentage_S0	%	Percentage of used Survivor 0 memory	host4hdfszkfailovercontroller, id4hdfszkfailovercontroller
HdfsDfzkGcUtilMemoryS1	Memory space percentage_S1	%	Percentage of used Survivor 1 memory	host4hdfszkfailovercontroller, id4hdfszkfailovercontroller
HdfsDfzkGcUtilMemoryE	Memory space percentage_E	%	Percentage of used Eden memory	host4hdfszkfailovercontroller, id4hdfszkfailovercontroller
HdfsDfzkGcUtilMemoryO	Memory space percentage_O	%	Percentage of used Old memory	host4hdfszkfailovercontroller, id4hdfszkfailovercontroller
HdfsDfzkGcUtilMemoryM	Memory space percentage_M	%	Percentage of used Metaspace memory	host4hdfszkfailovercontroller, id4hdfszkfailovercontroller
HdfsDfzkGcUtilMemoryCcs	Memory space percentage_CCS	%	Percentage of memory used by compressed class space	host4hdfszkfailovercontroller, id4hdfszkfailovercontroller
HdfsDfzkGcUtilGcCountFgc	GC count_FGC	Count	Full GC count	host4hdfszkfailovercontroller, id4hdfszkfailovercontroller
HdfsDfzkGcUtilGcCountYgc	GC count_YGC	Count	Young GC count	host4hdfszkfailovercontroller, id4hdfszkfailovercontroller
HdfsDfzkGcUtilGcTimeYgct	GC time_YGCT	s	Time consumed by Young GC	host4hdfszkfailovercontroller, id4hdfszkfailovercontroller
HdfsDfzkGcUtilGcTimeFgct	GC time_FGCT	s	Time consumed by Full GC	host4hdfszkfailovercontroller, id4hdfszkfailovercontroller
HdfsDfzkGcUtilGcTimeGct	GC time_GCT	s	Time used to collect garbage	host4hdfszkfailovercontroller, id4hdfszkfailovercontroller

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the `period` supported by each metric.

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	id4hdfsoverview	Dimension name of the EMR instance ID	String-type dimension name, such as id4hdfsoverview
Instances.N.Dimensions.0.Value	id4hdfsoverview	Specific EMR instance ID	Specific EMR instance ID, such as emr-mm8bs222
Instances.N.Dimensions.1.Name	host4hdfsoverview	Dimension name of the node IP in the EMR instance	String-type dimension name, such as host4hdfsoverview
Instances.N.Dimensions.1.Value	host4hdfsoverview	Specific node IP in the EMR instance	Specific node IP, such as 1.1.1.1
Instances.N.Dimensions.0.Name	id4hdfsnamenode	Dimension name of the EMR instance ID	String-type dimension name, such as id4hdfsnamenode
Instances.N.Dimensions.0.Value	id4hdfsnamenode	Specific EMR instance ID	Specific EMR instance ID, such as emr-mm8bs222
Instances.N.Dimensions.1.Name	host4hdfsnamenode	Dimension name of the node IP in the EMR instance	String-type dimension name, such as host4hdfsnamenode
Instances.N.Dimensions.1.Value	host4hdfsnamenode	Specific node IP in the EMR instance	Specific node IP, such as 1.1.1.1



Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	id4hdfsdatanode	Dimension name of the EMR instance ID	String-type dimension name, such as id4hdfsdatanode
Instances.N.Dimensions.0.Value	id4hdfsdatanode	Specific EMR instance ID	Specific EMR instance ID, such as emr-mm8bs222
Instances.N.Dimensions.1.Name	host4hdfsdatanode	Dimension name of the node IP in the EMR instance	String-type dimension name, such as host4hdfsdatanode
Instances.N.Dimensions.1.Value	host4hdfsdatanode	Specific node IP in the EMR instance	Specific node IP, such as 1.1.1.1
Instances.N.Dimensions.0.Name	id4hdfsjournalnode	Dimension name of the EMR instance ID	String-type dimension name, such as id4hdfsjournalnode
Instances.N.Dimensions.0.Value	id4hdfsjournalnode	Specific EMR instance ID	Specific EMR instance ID, such as emr-mm8bs222
Instances.N.Dimensions.1.Name	host4hdfsjournalnode	Dimension name of the node IP in the EMR instance	String-type dimension name, such as host4hdfsjournalnode
Instances.N.Dimensions.1.Value	host4hdfsjournalnode	Specific node IP in the EMR instance	Specific node IP, such as 1.1.1.1
Instances.N.Dimensions.0.Name	id4hdfszkfailovercontroller	Dimension name of the EMR instance ID	String-type dimension name, such as id4hdfszkfailovercontroller
Instances.N.Dimensions.0.Value	id4hdfszkfailovercontroller	Specific EMR instance ID	Specific EMR instance ID, such as emr-mm8bs222
Instances.N.Dimensions.1.Name	host4hdfszkfailovercontroller	Dimension name of the node IP in the EMR instance	String-type dimension name, such as host4hdfszkfailovercontroller
Instances.N.Dimensions.1.Value	host4hdfszkfailovercontroller	Specific node IP in the EMR instance	Specific node IP, such as 1.1.1.1

## Input Parameters

EMR (HDFS) supports querying monitoring data based on the following six combinations of dimensions. The values for the input parameters are as follows:

### 1. To query the metric monitoring data of HDFS - OverviewAggregation, use the following input parameters:

```
&Namespace=QCE/TXMR_HDFS
&Instances.N.Dimensions.0.Name=id4hdfsoverview
&Instances.N.Dimensions.0.Value=EMR instance ID
```

### 2. To query the metric monitoring data of HDFS - Overview, use the following input parameters:

```
&Namespace=QCE/TXMR_HDFS
&Instances.N.Dimensions.0.Name=id4hdfsoverview
&Instances.N.Dimensions.0.Value=EMR instance ID
&Instances.N.Dimensions.1.Name=host4hdfsoverview
&Instances.N.Dimensions.1.Value=Specific node IP in the EMR instance
```

### 3. To query the metric monitoring data of HDFS - NameNode, use the following input parameters:

```
&Namespace=QCE/TXMR_HDFS
&Instances.N.Dimensions.0.Name=id4hdfsnamenode
&Instances.N.Dimensions.0.Value=EMR instance ID
&Instances.N.Dimensions.1.Name=host4hdfsnamenode
&Instances.N.Dimensions.1.Value=Specific node IP in the EMR instance
```

### 4. To query the metric monitoring data of HDFS - DataNode, use the following input parameters:

```
&Namespace=QCE/TXMR_HDFS
&Instances.N.Dimensions.0.Name=id4hdfsdatanode
&Instances.N.Dimensions.0.Value=EMR instance ID
```



&Instances.N.Dimensions.1.Name=host4hdfsdatanode  
&Instances.N.Dimensions.1.Value=Specific node IP in the EMR instance

**5. To query the metric monitoring data of HDFS - Journal Node, use the following input parameters:**

&Namespace=QCE/TXMR\_HDFS  
&Instances.N.Dimensions.0.Name=id4hdfsjournalnode  
&Instances.N.Dimensions.0.Value=Specific EMR instance ID  
&Instances.N.Dimensions.1.Name=host4hdfsjournalnode  
&Instances.N.Dimensions.1.Value=Specific node IP in the EMR instance

**6. To query the metric monitoring data of HDFS - ZKFC, use the following input parameters:**

&Namespace=QCE/TXMR\_HDFS  
&Instances.N.Dimensions.0.Name=id4hdfszkfailovercontroller  
&Instances.N.Dimensions.0.Value=Specific EMR instance ID  
&Instances.N.Dimensions.1.Name=host4hdfszkfailovercontroller  
&Instances.N.Dimensions.1.Value=Specific node IP in the EMR instance

# EMR (HBase)

Last updated : 2020-08-20 14:23:49

## Namespace

Namespace=QCE/TXMR\_HBASE

## Monitoring Metrics

### HBase - Overview

Parameter	Metric Name	Unit	Description	Dimension
EmrHbaseOverview HbaseMasterAssignment managerRitRitcount	Number of cluster regions in the RIT state_ritCount	Count	Number of cluster regions in the RIT state	host4hbaseoverview, id4hbaseoverview
EmrHbaseOverview HbaseMaster Assignmentmanager RitRitcountoverthreshold	Number of cluster regions in the RIT state_ritCountOverThreshold	Count	Number of cluster regions in the RIT state	host4hbaseoverview, id4hbaseoverview
EmrHbaseOverview HbaseMaster Assignmentmanager TimeRitoldstage	Cluster RIT time_ritOldestAge	ms	Cluster RIT time	host4hbaseoverview, id4hbaseoverview
EmrHbaseOverview HbaseMaster AvgloadAverageload	Average number of regions per RS_averageLoad	Count	Average number of regions per RS	host4hbaseoverview, id4hbaseoverview
EmrHbaseOverview HbaseMasterRsnms Numregionservers	Number of cluster RSs_numRegionServers	Count	Number of cluster RSs	host4hbaseoverview, id4hbaseoverview
EmrHbaseOverview HbaseMasterRsnmsNum deadregionservers	Number of cluster RSs_numDeadRegionServers	Count	Number of cluster RSs	host4hbaseoverview, id4hbaseoverview
EmrHbaseOverview HbaseMaster BytesReceivedbytes	Number of cluster reads/writes_receivedBytes	Bytes/s	Number of cluster reads/writes	host4hbaseoverview, id4hbaseoverview
EmrHbaseOverview HbaseMaster BytesSentbytes	Number of cluster reads/writes_sentBytes	Bytes/s	Number of cluster reads/writes	host4hbaseoverview, id4hbaseoverview
EmrHbaseOverview HbaseMasterReq Clusterrequests	Total number of requests in the cluster_clusterRequests	Requests/s	Total number of requests in the cluster	host4hbaseoverview, id4hbaseoverview
EmrHbaseOverview HbaseMaster Assignmentmanager OpsAssignNumOps	Cluster assignment manager operations_Assign_num_ops	Count	Cluster assignment manager operations	host4hbaseoverview, id4hbaseoverview
EmrHbaseOverview HbaseMaste rAssignmentmanager OpsBulkassignNumOps	Cluster assignment manager operations_BulkAssign_num_ops	Count	Cluster assignment manager operations	host4hbaseoverview, id4hbaseoverview
EmrHbaseOverview HbaseMasterBalancerOps BalancerclusterNumOps	Number of cluster load balancing operations_BalancerclusterNum	Count	Number of cluster load balancing operations	host4hbaseoverview, id4hbaseoverview

Parameter	Metric Name	Unit	Description	Dimension
EmrHbaseOverview HbaseMasterServerPlan Mergeplancount	Cluster plans_mergePlanCount	Plans	Cluster plans	host4hbaseoverview, id4hbaseoverview
EmrHbaseOverview HbaseMasterServerPlan Splitplancount	Cluster plans_splitPlanCount	Plans	Cluster plans	host4hbaseoverview, id4hbaseoverview

**HBase - OverviewAggregation**

Parameter	Metric Name	Unit	Description	Dimension
EmrHbaseOverviewAggregation HbaseMasterAssignment managerRitRitcount	Number of cluster regions in the RIT state_ritCount	Count	Number of cluster regions in the RIT state	id4hbaseoverview
EmrHbaseOverviewAggregation HbaseMasterAssign mentmanagerRitRitcountover threshold	Number of cluster regions in the RIT state_ritCountOverThreshold	Count	Number of cluster regions in the RIT state	id4hbaseoverview
EmrHbaseOverviewAggregation HbaseMasterAssign mentmanager TimeRitoldstage	Cluster RIT time_ritOldestAge	ms	Cluster RIT time	id4hbaseoverview
EmrHbaseOverviewAggregation HbaseMaster AvgloadAverageload	Average number of regions per RS_averageLoad	Count	Average number of regions per RS	id4hbaseoverview
EmrHbaseOverviewAggregation HbaseMasterRnums Numregionservers	Number of cluster RSs_numRegionServers	Count	Number of cluster RSs	id4hbaseoverview
EmrHbaseOverviewAggregation HbaseMasterRnumsNum deadregionservers	Number of cluster RSs_numDeadRegionServers	Count	Number of cluster RSs	id4hbaseoverview
EmrHbaseOverviewAggregation HbaseMaster BytesReceivedbytes	Number of cluster reads/writes_receivedBytes	Bytes/s	Number of cluster reads/writes	id4hbaseoverview
EmrHbaseOverviewAggregation HbaseMaster BytesSentbytes	Number of cluster reads/writes_sentBytes	Bytes/s	Number of cluster reads/writes	id4hbaseoverview
EmrHbaseOverviewAggregation HbaseMasterReq Clusterrequests	Total number of requests in the cluster_clusterRequests	Requests/s	Total number of requests in the cluster	id4hbaseoverview
EmrHbaseOverviewAggregation HbaseMasterAssign mentmanagerOpsAssignNumOps	Cluster assignment manager operations_Assign_num_ops	Count	Cluster assignment manager operations	id4hbaseoverview
EmrHbaseOverviewAggregation HbaseMasterAssign mentmanagerOpsBulkassignNumOps	Cluster assignment manager operations_BulkAssign_num_ops	Count	Cluster assignment manager operations	id4hbaseoverview
EmrHbaseOverviewAggregation HbaseMasterBalancerOps BalancerclusterNumOps	Number of cluster load balancing operations_BalancerclusterNum	Count	Number of cluster load balancing operations	id4hbaseoverview
EmrHbaseOverviewAggregation HbaseMasterServerPlan Mergeplancount	Cluster plans_mergePlanCount	Plans	Cluster plans	id4hbaseoverview
EmrHbaseOverviewAggregation HbaseMasterServerPlan Splitplancount	Cluster plans_splitPlanCount	Plans	Cluster plans	id4hbaseoverview

**HBase - HMaster**

Parameter	Metric Name	Unit	Description	Dimension
HbaseHmGcUtilGcCountYgcb	GC count_YGC	Count	GC count	host4hbasehmaster, id4hbasehmaster
HbaseHmGcUtilGcCountFgcb	GC count_FGC	Count	GC count	host4hbasehmaster, id4hbasehmaster
HbaseHmGcUtilGcTimeFgcb	GC time_FGCT	s	GC time	host4hbasehmaster, id4hbasehmaster
HbaseHmGcUtilGcTimeGcb	GC time_GCT	s	GC time	host4hbasehmaster, id4hbasehmaster
HbaseHmGcUtilGcTimeYgcb	GC time_YGCT	s	GC time	host4hbasehmaster, id4hbasehmaster
HbaseHmGcUtilMemoryS0	Memory space percentage_S0	%	Memory space percentage	host4hbasehmaster, id4hbasehmaster
HbaseHmGcUtilMemoryE	Memory space percentage_E	%	Memory space percentage	host4hbasehmaster, id4hbasehmaster
HbaseHmGcUtilMemoryCcs	Memory space percentage_CCS	%	Memory space percentage	host4hbasehmaster, id4hbasehmaster
HbaseHmGcUtilMemoryS1	Memory space percentage_S1	%	Memory space percentage	host4hbasehmaster, id4hbasehmaster
HbaseHmGcUtilMemoryO	Memory space percentage_O	%	Memory space percentage	host4hbasehmaster, id4hbasehmaster
HbaseHmGcUtilMemoryM	Memory space percentage_M	%	Memory space percentage	host4hbasehmaster, id4hbasehmaster
HbaseMasterJvmLogTotalLogfatal	Number of JVM logs_LogFatal	Count	Number of JVM logs	host4hbasehmaster, id4hbasehmaster
HbaseMasterJvmLogTotalLogerror	Number of JVM logs_LogError	Count	Number of JVM logs	host4hbasehmaster, id4hbasehmaster
HbaseMasterJvmLogTotalLogwarn	Number of JVM logs_LogWarn	Count	Number of JVM logs	host4hbasehmaster, id4hbasehmaster
HbaseMasterJvmLogTotalLoginfo	Number of JVM logs_LogInfo	Count	Number of JVM logs	host4hbasehmaster, id4hbasehmaster
HbaseMasterJvmMemMemnonheapusedm	JVM memory_MemNonHeapUsedM	MB	JVM memory	host4hbasehmaster, id4hbasehmaster
HbaseMasterJvmMemMemnonheapcommittedm	JVM memory_MemNonHeapCommittedM	MB	JVM memory	host4hbasehmaster, id4hbasehmaster
HbaseMasterJvmMemMemheapcommittedm	JVM memory_MemHeapUsedM	MB	JVM memory	host4hbasehmaster, id4hbasehmaster
HbaseMasterJvmMemMemheapusedm	JVM memory_MemHeapUsedM	MB	JVM memory	host4hbasehmaster, id4hbasehmaster
HbaseMasterJvmMemMemheapcommittedm	JVM memory_MemHeapCommittedM	MB	JVM memory	host4hbasehmaster, id4hbasehmaster
HbaseMasterJvmMemMemheapmaxm	JVM memory_MemHeapMaxM	MB	JVM memory	host4hbasehmaster, id4hbasehmaster
HbaseMasterJvmMemMemmaxm	JVM memory_MemMaxM	MB	JVM memory	host4hbasehmaster, id4hbasehmaster
HbaseMasterJvmThreadsThreadsnew	Number of JVM threads_ThreadsNew	Count	Number of JVM threads	host4hbasehmaster, id4hbasehmaster

Parameter	Metric Name	Unit	Description	Dimension
HbaseMasterJvmThreads ThreadsRunnable	Number of JVM threads_ThreadsRunnable	Count	Number of JVM threads	host4hbasehmaster, id4hbasehmaster
HbaseMasterJvmThreads ThreadsBlocked	Number of JVM threads_ThreadsBlocked	Count	Number of JVM threads	host4hbasehmaster, id4hbasehmaster
HbaseMasterJvmThreads ThreadsWaiting	Number of JVM threads_ThreadsWaiting	Count	Number of JVM threads	host4hbasehmaster, id4hbasehmaster
HbaseMasterJvmThreads Threadstimedwaiting	Number of JVM threads_ThreadsTimedWaiting	Count	Number of JVM threads	host4hbasehmaster, id4hbasehmaster
HbaseMasterJvmThreads Threadsterminated	Number of JVM threads_ThreadsTerminated	Count	Number of JVM threads	host4hbasehmaster, id4hbasehmaster
HbaseMasterIpcConnections Numopenconnections	Number of RPC connections_numOpenConnections	Count	Number of RPC connections	host4hbasehmaster, id4hbasehmaster
HbaseMasterIpcException Failedsanitycheckexception	Number of RPC exceptions_FailedSanityCheckException	Count	Number of RPC exceptions	host4hbasehmaster, id4hbasehmaster
HbaseMasterIpcException Notservingregionexception	Number of RPC exceptions_NotServingRegionException	Count	Number of RPC exceptions	host4hbasehmaster, id4hbasehmaster
HbaseMasterIpcException Outoforderscanner nextexception	Number of RPC exceptions_OutOfOrderScannerNextException	Count	Number of RPC exceptions	host4hbasehmaster, id4hbasehmaster
HbaseMasterIpcException Regionmovedexception	Number of RPC exceptions_RegionMovedException	Count	Number of RPC exceptions	host4hbasehmaster, id4hbasehmaster
HbaseMasterIpcException Regiontoobusyexception	Number of RPC exceptions_RegionTooBusyException	Count	Number of RPC exceptions	host4hbasehmaster, id4hbasehmaster
HbaseMasterIpcException Unknownscannerexception	Number of RPC exceptions_UnknownScannerException	Count	Number of RPC exceptions	host4hbasehmaster, id4hbasehmaster
HbaseMasterIpc QueueNumcalls inpriorityqueue	Number of RPC queue requests_numCallsInPriorityQueue	Count	Number of RPC queue requests	host4hbasehmaster, id4hbasehmaster
HbaseMasterIpc QueueNumcalls inreplicationqueue	Number of RPC queue requests_numCallsInReplicationQueue	Count	Number of RPC queue requests	host4hbasehmaster, id4hbasehmaster
HbaseMasterServerTime Masteractivetime	Process start time_masterActiveTime	s	Process start time	host4hbasehmaster, id4hbasehmaster
HbaseMasterServerTime Masterstarttime	Process start time_masterStartTime	s	Process start time	host4hbasehmaster, id4hbasehmaster

**HBase - RegionServer**

Parameter	Metric Name	Unit	Description	Dimension
HbaseHsGcUtilGcCountYgc	GC count_YGC	Count	GC count	host4hbaseregionserver, id4hbaseregionserver
HbaseHsGcUtilGcCountFgc	GC count_FGC	Count	GC count	host4hbaseregionserver, id4hbaseregionserver
HbaseHsGcUtilGcTimeFgct	GC time_FGCT	s	GC time	host4hbaseregionserver, id4hbaseregionserver
HbaseHsGcUtilGcTimeGct	GC time_GCT	s	GC time	host4hbaseregionserver, id4hbaseregionserver
HbaseHsGcUtilGcTimeYgct	GC time_YGCT	s	GC time	host4hbaseregionserver id4hbaseregionserver

Parameter	Metric Name	Unit	Description	Dimension
HbaseHsGcUtilMemoryS0	Memory space percentage_S0	%	Memory space percentage	host4hbaseregionserver, id4hbaseregionserver
HbaseHsGcUtilMemoryE	Memory space percentage_E	%	Memory space percentage	host4hbaseregionserver, id4hbaseregionserver
HbaseHsGcUtilMemoryCcs	Memory space percentage_CCS	%	Memory space percentage	host4hbaseregionserver, id4hbaseregionserver
HbaseHsGcUtilMemoryS1	Memory space percentage_S1	%	Memory space percentage	host4hbaseregionserver, id4hbaseregionserver
HbaseHsGcUtilMemoryO	Memory space percentage_O	%	Memory space percentage	host4hbaseregionserver, id4hbaseregionserver
HbaseHsGcUtilMemoryM	Memory space percentage_M	%	Memory space percentage	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterJvmLog TotalLogfatal	Number of JVM logs_LogFatal	Count	Number of JVM logs	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterJvmLog TotalLogerror	Number of JVM logs_LogError	Count	Number of JVM logs	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterJvmLog TotalLogwarn	Number of JVM logs_LogWarn	Count	Number of JVM logs	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterJvmLog TotalLoginfo	Number of JVM logs_LogInfo	Count	Number of JVM logs	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterJvmMem Memnonheapusedm	JVM memory _MemNonHeapUsedM	MB	JVM memory	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterJvmMem Memnonheapcommittedm	JVM memory _MemNonHeapCommittedM	MB	JVM memory	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterJvmMem Memheapmaxm	JVM memory _MemHeapMaxM	MB	JVM memory	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterJvmMem Memheapusedm	JVM memory _MemHeapUsedM	MB	JVM memory	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterJvmMemMem heapcommittedm	JVM memory _MemHeapCommittedM	MB	JVM memory	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterJvmMemMem heapmaxm	JVM memory_MemHeapMaxM	MB	JVM memory	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterJvmMem Memmaxm	JVM memory_MemMaxM	MB	JVM memory	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterJvm ThreadsThreadsnew	Number of JVM threads_ThreadsNew	Count	Number of JVM threads	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterJvmThreads Threadsrunnable	Number of JVM threads _ThreadsRunnable	Count	Number of JVM threads	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterJvmThreads Threadsblocked	Number of JVM threads _ThreadsBlocked	Count	Number of JVM threads	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterJvmThreads Threadswaiting	Number of JVM threads _ThreadsWaiting	Count	Number of JVM threads	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterJvmThreads Threadstimedwaiting	Number of JVM threads_ThreadsTimedWaiting	Count	Number of JVM threads	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterJvmThreads Threadsterminated	Number of JVM threads_ThreadsTerminated	Count	Number of JVM threads	host4hbaseregionserver, id4hbaseregionserver

Parameter	Metric Name	Unit	Description	Dimension
HbaseRegionserver AvgsizeAverageregionsize	Average region size_averageRegionSize	Bytes	Average region size	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver RegionCountRegioncount	Number of regions_regionCount	Count	Number of regions	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerHfilesPercentPercent fileslocalsecond	Region replica localization_percentFilesLocal SecondaryRegions	%	Region replica localization	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver IpcAuthentication Authenticationfailures	Number of RPC authentications_authenticationFailures	Count	Number of RPC authentications	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver IpcAuthentication Authenticationsuccesses	Number of RPC authentications_authenticationSuccesses	Count	Number of RPC authentications	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterIpcConnections Numopenconnections	Number of RPC connections _numOpenConnections	Count	Number of RPC connections	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterIpcException Failedsanitycheckexception	Number of RPC exceptions _FailedSanityCheckException	Count	Number of RPC exceptions	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterIpcException Not-serving-region-exception	Number of RPC exceptions _NotServingRegionException	Count	Number of RPC exceptions	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterIpcException OutOforderscannernextexception	Number of RPC exceptions _OutOfOrderScannerNext Exception	Count	Number of RPC exceptions	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterIpcException Regionmovedexception	Number of RPC exceptions_RegionMovedException	Count	Number of RPC exceptions	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterIpcException Regiontoobusyexception	Number of RPC exceptions _RegionTooBusyException	Count	Number of RPC exceptions	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterIpcException Unknownscannereexception	Number of RPC exceptions _UnknownScannerException	Count	Number of RPC exceptions	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver IpcHandlerNumactivehandler	Number of RPC handles _numActiveHandler	Count	Number of RPC handles	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterIpcQueue Numcallsinpriorityqueue	Number of RPC queue requests _numCallsInPriorityQueue	Count	Number of RPC queue requests	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterIpcQueue Numcallsinreplicationqueue	Number of RPC queue requests _numCallsInReplicationQueue	Count	Number of RPC queue requests	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver IpcQueueNumcalls ingeneralqueue	Number of RPC queue requests _numCallsInGeneralQueue	Count	Number of RPC queue requests	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver HlogcountHlogfilecount	Number of WAL files_hlogFileCount	Count	Number of WAL files	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver HlogsizeHlogfilesize	WAL file size_hlogFileSize	Bytes	WAL file size	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver MemstoreMemstoresize	MemStore size_memStoreSize	MB	MemStore size	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver StoreCountStorecount	Number of stores_storeCount	Count	Number of stores	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver StorefilecountStorefilecount	Number of StoreFiles_storeFileCount	Count	Number of StoreFiles	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver StorefilesizeStorefilesize	StoreFile size_storeFileSize	MB	StoreFile size	host4hbaseregionserver, id4hbaseregionserver

Parameter	Metric Name	Unit	Description	Dimension
HbaseRegionserver ServerCellsFlushedcellssize	Disk write rate_flushedCellsSize	Bytes/s	Disk write rate	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerDelayAppendMean	Average delay_Append_mean	ms	Average delay	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerDelayReplayMean	Average delay_Replay_mean	ms	Average delay	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerDelayGetMean	Average delay_Get_mean	ms	Average delay	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerDelayUpdatesblockedtime	Average delay_updatesBlockedTime	ms	Average delay	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerFlushFlushtimeNumOps	Number of RS disk writes_FlushTime_num_ops	Writes	Number of RS disk writes	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerQueueSplitqueuelength	Number of operation queue requests_splitQueueLength	Count	Number of operation queue requests	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerQueueCompaction queuelength	Number of operation queue requests_compactionQueueLength	Count	Number of operation queue requests	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerQueueFlushqueuelength	Number of operation queue requests_flushQueueLength	Count	Number of operation queue requests	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerReplayReplayNumOps	Number of Replay operations_Replay_num_ops	Count	Number of Replay operations	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerSlowSlowappendcount	Number of slow operations_slowAppendCount	Count	Number of slow operations	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerSlowSlowdeletecount	Number of slow operations_slowDeleteCount	Count	Number of slow operations	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerSlowSlowgetcount	Number of slow operations_slowGetCount	Count	Number of slow operations	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerSlowSlowincrementcount	Number of slow operations_slowIncrementCount	Count	Number of slow operations	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerSlowSlowputcount	Number of slow operations_slowPutCount	Count	Number of slow operations	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerSplitSplitrequestcount	Split requests_splitRequestCount	Count	Split requests	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerSplitSplitsuccesscount	Split requests_splitSuccessCount	Count	Split requests	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerBlockcacheCountBlock cachecount	Number of cache blocks_blockCacheCount	Count	Number of cache blocks	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerBlockcacheCountBlock cachehitcount	Number of cache blocks_blockCacheHitCount	Count	Number of cache blocks	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerBlockcacheCountBlock cachemisscount	Number of cache blocks_blockCacheMissCount	Count	Number of cache blocks	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerBlockcachePercent Blockcacheexpresshi	Cache read hit rate_blockCacheExpressHitPercent	%	Cache read hit rate	host4hbaseregionserver, id4hbaseregionserver



Parameter	Metric Name	Unit	Description	Dimension
HbaseRegionserver ServerBlockcacheSize Blockcachesize	Size of the memory used by the cache block_blockCacheSize	Bytes	Size of the memory used by the cache block	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerIndexStaticbloomsize	Index size_staticBloomSize	Bytes	Index size	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerIndexStaticindexsize	Index size_staticIndexSize	Bytes	Index size	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerIndexStorefileindexsize	Index size_storeFileIndexSize	Bytes	Index size	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver IpcBytesReceivedbytes	Read/write traffic_receivedBytes	Bytes/s	Read/write traffic	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver IpcBytesSentbytes	Read/write traffic_sentBytes	Bytes/s	Read/write traffic	host4hbaseregionserver, id4hbaseregionserver
HbaseMasterjvm LogTotalLogerror	Number of read/write requests_Total	Requests/s	Number of read/write requests	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ReqcountRead	Number of read/write requests _Read	Requests/s	Number of read/write requests	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ReqcountWrite	Number of read/write requests_Write	Requests/s	Number of read/write requests	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ReqcountAppendNumOps	Number of read/write requests_Append_num_ops	Requests/s	Number of read/write requests	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerMutationCount Mutationswithoutwalcoun	Number of mutations_mutationsWithout WALCount	Count	Number of mutations	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver ServerMutationSizeMutation withoutwalsize	Size of the mutation_mutationsWithoutWALSize	Bytes	Size of the mutation	host4hbaseregionserver, id4hbaseregionserver
HbaseRegionserver StarttimeRegionserverstarttime	Process start time_regionServerStartTime	s	Process start time	host4hbaseregionserver, id4hbaseregionserver

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	id4hbaseoverview	Dimension name of the EMR instance ID	String-type dimension name, such as id4hbaseoverview
Instances.N.Dimensions.0.Value	id4hbaseoverview	Specific EMR instance ID	Specific EMR instance ID, such as emr- mm8bs222
Instances.N.Dimensions.1.Name	host4hbaseoverview	Dimension name of the node IP in the EMR instance	String-type dimension name, such as host4hbaseoverview
Instances.N.Dimensions.1.Value	host4hbaseoverview	Specific node IP in the EMR instance	Specific node IP, such as 1.1.1.1
Instances.N.Dimensions.0.Name	id4hbasehmaster	Dimension name of the EMR instance ID	String-type dimension name, such as id4hbasehmaster
Instances.N.Dimensions.0.Value	id4hbasehmaster	Specific EMR instance ID	Specific EMR instance ID, such as emr- mm8bs222
Instances.N.Dimensions.1.Name	host4hbasehmaster	Dimension name of the node IP in the EMR instance	String-type dimension name, such as host4hbasehmaster

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.1.Value	host4hbasehmaster	Specific node IP in the EMR instance	Specific node IP, such as 1.1.1.1
Instances.N.Dimensions.0.Name	id4hbaseregionserver	Dimension name of the EMR instance ID	String-type dimension name, such as id4hbaseregionserver
Instances.N.Dimensions.0.Value	id4hbaseregionserver	Specific EMR instance ID	Specific EMR instance ID, such as emr-mm8bs222
Instances.N.Dimensions.1.Name	host4hbaseregionserver	Dimension name of the node IP in the EMR instance	String-type dimension name, such as host4hbaseregionserver
Instances.N.Dimensions.1.Value	host4hbaseregionserver	Specific node IP in the EMR instance	Specific node IP, such as 1.1.1.1

## Input Parameters

EMR (HBase) supports querying monitoring data based on the following four combinations of dimensions. The values for the input parameters are as follows:

**1. To query the metric monitoring data of HBase - OverviewAggregation, use the following input parameters:**

```
&Namespace=QCE/TXMR_HBASE
&Instances.N.Dimensions.0.Name=id4hbaseoverview
&Instances.N.Dimensions.0.Value=EMR instance ID
```

**2. To query the metric monitoring data of HBase - Overview, use the following input parameters:**

```
&Namespace=QCE/TXMR_HBASE
&Instances.N.Dimensions.0.Name=id4hbaseoverview
&Instances.N.Dimensions.0.Value=EMR instance ID
&Instances.N.Dimensions.1.Name=host4hbaseoverview
&Instances.N.Dimensions.1.Value=Specific node IP in the EMR instance
```

**3. To query the metric monitoring data of HBase - HMaster, use the following input parameters:**

```
&Namespace=QCE/TXMR_HBASE
&Instances.N.Dimensions.0.Name=id4hbasehmaster
&Instances.N.Dimensions.0.Value=EMR instance ID
&Instances.N.Dimensions.1.Name= host4hbasehmaster
&Instances.N.Dimensions.1.Value=Specific node IP in the EMR instance
```

**4. To query the metric monitoring data of HBase - RegionServer, use the following input parameters:**

```
&Namespace=QCE/TXMR_HBASE
&Instances.N.Dimensions.0.Name=id4hbaseregionserver
&Instances.N.Dimensions.0.Value=EMR instance ID
&Instances.N.Dimensions.1.Name=host4hbaseregionserver
&Instances.N.Dimensions.1.Value=Specific node IP in the EMR instance
```

# EMR (Hive)

Last updated : 2020-07-28 16:16:58

## Namespace

Namespace=QCE/TXMR\_HIVE

## Monitoring Metrics

### Hive - HiveMetaStore

Parameter	Metric Name	Unit	Description	Dimension
HiveHmsGcUtilGcCountYgc	GC count_YGC	Count	Young GC count	id4hivemetastore host4hivemetastore
HiveHmsGcUtilGcCountFgc	GC count_FGC	Count	Full GC count	id4hivemetastore host4hivemetastore
HiveHmsGcUtilGcTimeFgct	GC time_FGCT	s	Time consumed by Full GC	id4hivemetastore host4hivemetastore
HiveHmsGcUtilGcTimeGct	GC time_FGCT	s	Time used to collect garbage	id4hivemetastore host4hivemetastore
HiveHmsGcUtilGcTimeYgct	GC time_YGCT	s	Time consumed by Young GC	id4hivemetastore host4hivemetastore
HiveHmsGcUtilMemoryS0	Memory space percentage_S0	%	Percentage of used Survivor 0 memory	id4hivemetastore host4hivemetastore
HiveHmsGcUtilMemoryE	Memory space percentage_E	%	Percentage of used Eden memory	id4hivemetastore host4hivemetastore
HiveHmsGcUtilMemoryCcs	Memory space percentage_CCS	%	Percentage of memory used by compressed class space	id4hivemetastore host4hivemetastore
HiveHmsGcUtilMemoryS1	Memory space percentage_S1	%	Percentage of used Survivor 1 memory	id4hivemetastore host4hivemetastore
HiveHmsGcUtilMemoryO	Memory space percentage_O	%	Percentage of used Old memory	id4hivemetastore host4hivemetastore
HiveHmsGcUtilMemoryM	Memory space percentage_M	%	Percentage of used Metaspaces memory	id4hivemetastore host4hivemetastore

### Hive - HiveServer2

Parameter	Metric Name	Unit	Description	Dimension
HiveH2GcUtilGcCountYgc	GC count_YGC	Count	Young GC count	host4hivehiveserver2, id4hivehiveserver2
HiveH2GcUtilGcCountFgc	GC count_FGC	Count	Full GC count	host4hivehiveserver2, id4hivehiveserver2
HiveH2GcUtilGcTimeFgct	GC time_FGCT	s	Time consumed by Full GC	host4hivehiveserver2, id4hivehiveserver2
HiveH2GcUtilGcTimeGct	GC time_FGCT	s	Time used to collect garbage	host4hivehiveserver2, id4hivehiveserver2
HiveH2GcUtilGcTimeYgct	GC time_YGCT	s	Time consumed by Young GC	host4hivehiveserver2, id4hivehiveserver2

Parameter	Metric Name	Unit	Description	Dimension
HiveH2GcUtilMemoryS0	Memory space percentage_S0	%	Percentage of used Survivor 0 memory	host4hivehiveserver2, id4hivehiveserver2
HiveH2GcUtilMemoryE	Memory space percentage_E	%	Percentage of used Eden memory	host4hivehiveserver2, id4hivehiveserver2
HiveH2GcUtilMemoryCcs	Memory space percentage_CCS	%	Percentage of memory used by compressed class space	host4hivehiveserver2, id4hivehiveserver2
HiveH2GcUtilMemoryS1	Memory space percentage_S1	%	Percentage of used Survivor 1 memory	host4hivehiveserver2, id4hivehiveserver2
HiveH1GcUtilMemoryO	Memory space percentage_O	%	Percentage of used Old memory	host4hivehiveserver2, id4hivehiveserver2
HiveH2GcUtilMemoryM	Memory space percentage_M	%	Percentage of used Metaspace memory	host4hivehiveserver2, id4hivehiveserver2
HiveH2JvmMemMem nonheapusedm	JVM memory_MemNonHeapUsedM	MB	Size of the NonHeapMemory currently used by JVM	host4hivehiveserver2, id4hivehiveserver2
HiveH2JvmMemMem nonheapcommittedm	JVM memory_MemNonHeapCommittedM	MB	Size of the NonHeapMemory currently committed by JVM	host4hivehiveserver2, id4hivehiveserver2
HiveH2JvmMemMem heapusedm	JVM memory_MemHeapUsedM	MB	Size of the HeapMemory currently used by JVM	host4hivehiveserver2, id4hivehiveserver2
HiveH2JvmMemMem heapcommittedm	JVM memory_MemHeapCommittedM	MB	Size of the HeapMemory currently committed by JVM	host4hivehiveserver2, id4hivehiveserver2
HiveH2JvmMemMem heapmaxm	JVM memory_MemHeapMaxM	MB	Size of the HeapMemory configured by JVM	host4hivehiveserver2, id4hivehiveserver2
HiveH2JvmMemMem heapinitm	JVM memory_MemHeapInitM	MB	Size of the initial JVM HeapMem	host4hivehiveserver2, id4hivehiveserver2
HiveH2JvmMemMem nonheapinitm	JVM memory_MemNonHeapInitM	MB	Size of the initial JVM NonHeapMem	host4hivehiveserver2, id4hivehiveserver2
HiveH2OsCpuLoad Processcpuload	CPU utilization_ProcessCpuLoad	%	CPU utilization	host4hivehiveserver2, id4hivehiveserver2
HiveH2OsFdCount Maxfiledescriptorcount	Number of file descriptors_MaxFileDescriptorCount	Count	Maximum number of file descriptors	host4hivehiveserver2, id4hivehiveserver2
HiveH2OsFdCount Openfiledescriptorcount	Number of file descriptors_OpenFileDescriptorCount	Count	Number of opened file descriptors	host4hivehiveserver2, id4hivehiveserver2
HiveH2OsCpuTime Processcputime	Cumulative CPU usage time_ProcessCpuTime	ms	Cumulative CPU usage time	host4hivehiveserver2, id4hivehiveserver2
HiveH2RtUptimeUptime	Process run time_Uptime	s	Process run time	host4hivehiveserver2, id4hivehiveserver2
HiveH2ThreadCount Daemonthreadcount	Number of worker threads_DaemonThreadCount	Count	Number of daemon threads	host4hivehiveserver2, id4hivehiveserver2
HiveH2ThreadCount Threadcount	Number of worker threads_ThreadCount	Count	Total number of threads	host4hivehiveserver2, id4hivehiveserver2

**Hive - HiveWebHcat**

Parameter	Metric Abbreviation	Metric Name	Unit	Description	Dimension
HiveHcGcUtilGcCountYgc	YGC	GC count_YGC	Count	Young GC count	host4hivehivewebhcat, id4hivehivewebhcat

Parameter	Metric Abbreviation	Metric Name	Unit	Description	Dimension
HiveHcGcUtilGcCountFgc	FGC	GC count_FGC	Count	Full GC count	host4hivehivewebhcat, id4hivehivewebhcat
HiveHcGcUtilGcTimeFgct	FGCT	GC time_FGCT	s	Time consumed by Full GC	host4hivehivewebhcat, id4hivehivewebhcat
HiveHcGcUtilGcTimeGct	GCT	GC time_FGCT	s	Time used to collect garbage	host4hivehivewebhcat, id4hivehivewebhca
HiveHcGcUtilGcTimeYgct	YGCT	GC time_YGCT	s	Time consumed by Young GC	host4hivehivewebhcat, id4hivehivewebhca
HiveHcGcUtilMemoryS0	S0	Memory space percentage_S0	%	Percentage of used Survivor 0 memory	host4hivehivewebhcat, id4hivehivewebhca
HiveHcGcUtilMemoryE	E	Memory space percentage_E	%	Percentage of used Eden memory	host4hivehivewebhcat, id4hivehivewebhca
HiveHcGcUtilMemoryCcs	CCS	Memory space percentage_CCS	%	Percentage of memory used by compressed class space	host4hivehivewebhcat, id4hivehivewebhca
HiveHcGcUtilMemoryS1	S1	Memory space percentage_S1	%	Percentage of used Survivor 1 memory	host4hivehivewebhcat, id4hivehivewebhca
HiveHcGcUtilMemoryO	O	Memory space percentage_O	%	Percentage of used Old memory	host4hivehivewebhcat, id4hivehivewebhcat
HiveHcGcUtilMemoryM	M	Memory space percentage_M	%	Percentage of used Metaspace memory	host4hivehivewebhcat, id4hivehivewebhcat

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	id4hivemetastore	Dimension name of the EMR instance ID	String-type dimension name, such as id4hivemetastore
Instances.N.Dimensions.0.Value	id4hivemetastore	Specific EMR instance ID	Specific EMR instance ID, such as emr-mm8bs222
Instances.N.Dimensions.1.Name	host4hivemetastore	Dimension name of the node IP in the EMR instance	String-type dimension name, such as host4hivemetastore
Instances.N.Dimensions.1.Value	host4hivemetastore	Specific node IP in the EMR instance	Specific node IP, such as 1.1.1.1
Instances.N.Dimensions.0.Name	id4hivehiveserver2	Dimension name of the EMR instance ID	String-type dimension name, such as id4hivehiveserver2
Instances.N.Dimensions.0.Value	id4hivehiveserver2	Specific EMR instance ID	Specific EMR instance ID, such as emr-mm8bs222
Instances.N.Dimensions.1.Name	host4hivehiveserver2	Dimension name of the node IP in the EMR instance	String-type dimension name, such as host4hivehiveserver2
Instances.N.Dimensions.1.Value	host4hivehiveserver2	Specific node IP in the EMR instance	Specific node IP, such as 1.1.1.1
Instances.N.Dimensions.0.Name	id4hivehivewebhcat	Dimension name of the EMR instance ID	String-type dimension name, such as id4hivehivewebhcat
Instances.N.Dimensions.0.Value	id4hivehivewebhcat	Specific EMR instance ID	Specific EMR instance ID, such as emr-mm8bs222
Instances.N.Dimensions.1.Name	host4hivehivewebhcat	Dimension name of the node IP in the EMR instance	String-type dimension name, such as host4hivehivewebhcat

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.1.Value	host4hivehivewebhcat	Specific node IP in the EMR instance	Specific node IP, such as 1.1.1.1

## Input Parameters

EMR (Hive) supports querying monitoring data based on the following three combinations of dimensions. The values for the input parameters are as follows:

**1. To query the metric monitoring data of Hive - HiveMetaStore, use the following input parameters:**

```
&Namespace=QCE/TXMR_HIVE
&Instances.N.Dimensions.0.Name=id4hivemetastore
&Instances.N.Dimensions.0.Value=EMR instance ID
&Instances.N.Dimensions.1.Name=host4hivemetastore
&Instances.N.Dimensions.1.Value=Specific node IP in the EMR instance
```

**2. To query the metric monitoring data of Hive - HiveServer2, use the following input parameters:**

```
&Namespace=QCE/TXMR_HIVE
&Instances.N.Dimensions.0.Name=id4hivehiveserver2
&Instances.N.Dimensions.0.Value=EMR instance ID
&Instances.N.Dimensions.1.Name=host4hivehiveserver2
&Instances.N.Dimensions.1.Value=Specific node IP in the EMR instance
```

**3. To query the metric monitoring data of Hive - HiveWebHcat, use the following input parameters:**

```
&Namespace=QCE/TXMR_HIVE
&Instances.N.Dimensions.0.Name=id4hivehivewebhcat
&Instances.N.Dimensions.0.Value=EMR instance ID
&Instances.N.Dimensions.1.Name=host4hivehivewebhcat
&Instances.N.Dimensions.1.Value=Specific node IP in the EMR instance
```

## EMR (Node)

Last updated : 2020-07-28 16:16:58

### Namespace

Namespace=QCE/TXMR\_NODE

### Monitoring Metrics

#### Server - CPU

Parameter	Metric Name	Unit	Description	Dimension
NodeCpuIdle	CPU utilization_idle	%	Percentage of CPU idle time	id4nodecpu, host4nodecpu
NodeCpuIrq	CPU utilization_irq	%	Percentage of interrupts	id4nodecpu, host4nodecpu
NodeCpuNice	CPU utilization_nice	%	Percentage of CPU utilization under the nice priority	id4nodecpu, host4nodecpu
NodeCpuSteal	CPU utilization_steal	%	Percentage of wait time by virtual CPUs for physical CPUs	id4nodecpu, host4nodecpu
NodeCpuSoftirq	CPU utilization_softirq	%	Percentage of CPU soft interrupts	id4nodecpu, host4nodecpu
NodeCpuGuest	CPU utilization_guest	%	Percentage of time spent running virtual processors	id4nodecpu, host4nodecpu
NodeCpuSystem	CPU utilization_system	%	CPU utilization in the kernel state	id4nodecpu, host4nodecpu
NodeCpuUser	CPU utilization_user	%	CPU utilization in the user state	id4nodecpu, host4nodecpu
NodeCpuIowait	CPU utilization_iowait	%	Percentage of CPU idleness due to process I/O waits	id4nodecpu, host4nodecpu
NodeCpuLoad1m	Load_1m	-	1-minute load	id4nodecpu, host4nodecpu
NodeCpuLoad5m	Load_5m	-	5-minute load	id4nodecpu, host4nodecpu
NodeCpuLoad15m	Load_15m	-	15-minute load	id4nodecpu, host4nodecpu
NodeCpuCountCpuCount	Number of cores_cpu_count	Count	Number of CPU cores	id4nodecpu, host4nodecpu

#### Server - Memory

Parameter	Metric Name	Unit	Description	Dimension
NodeMemMemtotal	Memory usage_MemTotal	GB	Total memory size	host4nodememory, id4nodememory
NodeMemMemfree	Memory usage_MemFree	GB	Total free memory size	host4nodememory, id4nodememory
NodeMemBuffers	Memory usage_Buffers	GB	Total memory size used by buffers	host4nodememory, id4nodememory

Parameter	Metric Name	Unit	Description	Dimension
NodeMemCached	Memory usage_Cached	GB	Total memory size used by the file cache	host4nodememory, id4nodememory
NodeMemSwapcached	Memory usage_SwapCached	GB	Total swap memory size used by anonymous page writes	host4nodememory, id4nodememory
NodeMemSwapfree	Memory usage_SwapFree	GB	Total available swap size	host4nodememory, id4nodememory
NodeMemAnonpages	Memory usage_AnonPages	GB	Total unmapped memory size	host4nodememory, id4nodememory
NodeMemSwaptotal	Memory usage_SwapTotal	GB	Total swap size	host4nodememory, id4nodememory
NodeMemDirty	Memory usage_Dirty	GB	Total memory size to be written to the disk	host4nodememory, id4nodememory
NodeMemWriteback	Memory usage_Writeback	GB	Total memory size being written back to the disk	host4nodememory, id4nodememory
NodeMemHardwarecorrupted	Memory usage_HardwareCorrupted	GB	Total unavailable memory size due to memory hardware failure	host4nodememory, id4nodememory
NodeMemShmem	Memory usage_Shmem	GB	Total shared memory size	host4nodememory, id4nodememory
NodeMemPercentAvailablePercent	Percentage of used memory_available_percent	%	Percentage of available memory size out of the total memory	host4nodememory, id4nodememory
NodeMemPercentUsedPercent	Percentage of used memory_used_percent	%	Percentage of used memory size out of the total memory	host4nodememory, id4nodememory

**Server - Network**

Parameter	Metric Name	Unit	Description	Dimension
NodeNetworkTcpListenExtListendrops	TCPLISTEN Exceptions_ListenDrops	Connections/s	Number of incoming connections (SYN packets) dropped for any reason	host4nodenetwork, id4nodenetwork
NodeNetworkTcpListenExtListenoverflows	TCPLISTEN Exceptions_ListenOverflows	Occurrences/s	Number of occurrences where the upper limit of the Accept queue is exceeded after the last step of the three-way handshake is completed	host4nodenetwork, id4nodenetwork
NodeNetworkTcpSyncookiesSyncookiesfailed	TCPsyncookies_SyncookiesFailed	Packets/s	Number of packets received with invalid SYN Cookie information	host4nodenetwork, id4nodenetwork
NodeNetworkTcpSyncookiesSyncookiesrecv	TCPsyncookies_SyncookiesRecv	Packets/s	Number of packets received with valid SYN Cookie information	host4nodenetwork, id4nodenetwork
NodeNetworkTcpSyncookiesSyncookiesessent	TCPsyncookies_SyncookiesSent	Packets/s	Number of SYN/ACK packets sent through SYN Cookie	host4nodenetwork, id4nodenetwork
NodeNetworkTcpAbortTcpabortontimeout	TCP connection exception Abort_TCPAbort OnTimeout	Connections/s	Number of connections closed because the attempts of the retransmissions of various timers (RTO/PTO/keepalive) exceeded the upper limit	host4nodenetwork, id4nodenetwork
NodeNetworkTcpAbortTcpabortondata	TCP connection exception Abort_TCPAbort OnData	Sockets/s	Number of sockets closed due to receiving unknown data	host4nodenetwork, id4nodenetwork
NodeNetworkTcpAbortTcpabortonclose	TCP connection exception Abort_TCPAbort OnClose	Sockets/s	Number of sockets closed when the user-mode program has data in the buffer	host4nodenetwork, id4nodenetwork



Parameter	Metric Name	Unit	Description	Dimension
NodeNetworkTcpAbort Tcpabortonmemory	TCP connection exception Abort_TCPAbort OnMemory	Connections/s	Number of connections closed due to memory issues	host4nodenetwork, id4nodenetwork
NodeNetworkTcpAbort Tcpabortonlinger	TCP connection exception Abort_TCPAbort OnLinger	Connections/s	Number of connections suspended in the lingering state after being closed	host4nodenetwork, id4nodenetwork
NodeNetworkTcpAbort Tcpabortfailed	TCP connection exception Abort_TCPAbortFailed	Times/s	Number of failed attempts to close connections	host4nodenetwork, id4nodenetwork
NodeNetworkTcpState Activeopens	Established TCP connections _ActiveOpens	Connections/s	Number of actively established TCP connections	host4nodenetwork, id4nodenetwork
NodeNetworkTcp StateCurrestab	Established TCP connections _CurrEstab	Connections/s	Number of TCP connections currently established	host4nodenetwork, id4nodenetwork
NodeNetworkTcpState Passiveopens	Established TCP connections _PassiveOpens	Connections/s	Number of passively established TCP connections	host4nodenetwork, id4nodenetwork
NodeNetworkTcp StateAttemptfails	Established TCP connections _AttemptFails	Connections/s	Number of connection establishment failures	host4nodenetwork, id4nodenetwork
NodeNetworkTcp StateEstabresets	Established TCP connections _EstabResets	Connections/s	Number of reset connections	host4nodenetwork, id4nodenetwork
NodeNetworkTcp PacketStatInsegs	TCP data packets _InSegs	Packets/s	Number of received packets, including erroneous ones	host4nodenetwork, id4nodenetwork
NodeNetworkTcp PacketStatOutsegs	TCP data packets _OutSegs	Packets/s	Number of sent data packets	host4nodenetwork, id4nodenetwork
NodeNetworkTcp PacketStatRetranssegs	TCP data packets _RetransSegs	Packets/s	Number of received TCP packets	host4nodenetwork, id4nodenetwork
NodeNetworkTcp PacketStatInerrs	TCP data packets _InErrs	Packets/s	Number of retransmitted packets	host4nodenetwork, id4nodenetwork
NodeNetworkTcp PacketStatOutrst	TCP data packets _OutRsts	Packets/s	Number of sent RST packets	host4nodenetwork, id4nodenetwork
NodeNetworkTcpPacketRate Retranssegsrate	TCP retransmission rate _RetransSegsRate	%	Retransmission rate at the TCP layer	host4nodenetwork, id4nodenetwork
NodeNetworkTcp PacketRateResetr	TCP retransmission rate _ResetRate	%	RESET sending frequency	host4nodenetwork, id4nodenetwork
NodeNetworkTcpPacket RateInerrrate	TCP retransmission rate _InErrRate	%	Percentage of erroneous packets	host4nodenetwork, id4nodenetwork
NodeNetworkTcpTimeWaitTw	TCPTIME-WAIT_TW	Sockets/s	Number of sockets ending the TIME_WAIT state after normal timeout	host4nodenetwork, id4nodenetwork
NodeNetworkTcp TimeWaitTwkilled	TCPTIME-WAIT_TWkilled	Sockets/s	Number of sockets ending the TIME_WAIT state through the tcp_tw_recycle mechanism	host4nodenetwork, id4nodenetwork
NodeNetworkTcpTime WaitTwrecycled	TCPTIME-WAIT_TWRecycled	Sockets/s	Number of sockets ending the TIME_WAIT state through the tcp_tw_reuse mechanism	host4nodenetwork, id4nodenetwork
NodeNetworkTcpRtoStat Tcptimeouts	TCPRTO_TCPTimeouts	Timeouts/s	Number of first RTO timer timeouts	host4nodenetwork, id4nodenetwork

Parameter	Metric Name	Unit	Description	Dimension
NodeNetworkTcpRtoStat Tcpspuriousrtos	TCPRTO_TCPSpuriousRTOs	Timeouts/s	Number of spurious timeouts detected through the F-RTO mechanism	host4nodenetwork, id4nodenetwork
NodeNetworkTcpRtoStat Tcpllossprobes	TCPRTO_TCPLossProbes	Packets/s	Number of Tail Loss Probe (TLP) packets sent due to Probe Timeout (PTO)	host4nodenetwork, id4nodenetwork
NodeNetworkTcpRtoStat Tcpllossproberecovery	TCPRTO_TCPLossProbeRecovery	Packets/s	Number of lost packets just repaired by TLP probes	host4nodenetwork, id4nodenetwork
NodeNetworkTcpRtoStat Tcprenorecoveryfail	TCPRTO_TCPRenoRecoveryFail	Connections/s	Number of connections that enter the Recovery phase and then undergo RTO (SACK option not supported by the opposite)	host4nodenetwork, id4nodenetwork
NodeNetworkTcpRtoStat Tcprenorecoveryfail	TCPRTO_TCPRenoRecoveryFail	Connections/s	Number of connections that enter the Recovery phase and then undergo RTO (SACK option supported by the opposite)	host4nodenetwork, id4nodenetwork
NodeNetworkTcpRtoStat Tcprenofailures	TCPRTO_TCPRenoFailures	Failures/s	Number of connections that enter the TCP_CA_Disorder phase and then undergo RTO (SACK option not supported by the opposite)	host4nodenetwork, id4nodenetwork
NodeNetworkTcpRtoStat Tcpsackfailures	TCPRTO_TCPSackFailures	Connections/s	Number of connections that enter the TCP_CA_Disorder phase and then undergo RTO (SACK option supported by the opposite)	host4nodenetwork, id4nodenetwork
NodeNetworkTcpRtoStat Tcpllossfailures	TCPRTO_TCPLossFailures	Connections/s	Number of connections that enter the TCP_CA_Loss phase and then undergo RTO timeout	host4nodenetwork, id4nodenetwork
NodeNetworkTcpRto ConstRtoAlgorithm	TCPRTO_Constant_RtoAlgorithm	Algorithms/s	Number of delayed algorithms for forwarding unanswered objects	host4nodenetwork, id4nodenetwork
NodeNetworkTcpRto ConstRtomax	TCPRTO_Constant_RtoMax	Retransmissions/s	Maximum number of retransmissions due to TCP delay	host4nodenetwork, id4nodenetwork
NodeNetworkTcpRto ConstRtomin	TCPRTO_Constant_RtoMin	Retransmissions/s	Minimum number of retransmissions due to TCP delay	host4nodenetwork, id4nodenetwork
NodeNetworkTcpRetrans Tcplostretransmit	TCP retransmissions_TCPLostRetransmit	Retransmissions/s	Number of SKB retransmissions due to loss	host4nodenetwork, id4nodenetwork
NodeNetworkTcpRetrans Tcpfastretrans	TCP retransmissions_TCPFastRetrans	Retransmissions/s	Number of fast SKB retransmissions	host4nodenetwork, id4nodenetwork
NodeNetworkTcpRetrans Tcforwardretrans	TCP retransmissions_TCPForwardRetrans	Retransmissions/s	Number of regular SKB retransmissions	host4nodenetwork, id4nodenetwork
NodeNetworkTcpRetrans Tcpslowstartretrans	TCP retransmissions_TCPSlowStartRetrans	Retransmissions/s	Number of SKB retransmissions with successful slow starts	host4nodenetwork, id4nodenetwork
NodeNetworkTcpRetrans Tcpretransfail	TCP retransmissions_TCPRetransFail	Failures/s	Number of failed retransmission attempts	host4nodenetwork, id4nodenetwork
NodeNetworkUdp DgInDatagrams	UDP datagrams_InDatagrams	Datagrams/s	Number of sent UDP datagrams	host4nodenetwork, id4nodenetwork
INodeNetworkUdpDg OutDatagrams	UDP datagrams_OutDatagrams	Datagrams/s	Number of received UDP datagrams	host4nodenetwork, id4nodenetwork
NodeNetworkRwBytes Eth0TransmitBytes	ENI data receiving and sending rate_eth0-transmit_bytes	MB/s	Volume of data sent by ENI	host4nodenetwork, id4nodenetwork

Parameter	Metric Name	Unit	Description	Dimension
NodeNetworkPackets Eth0ReceiveDrop	ENI data packet rate _eth0-receive_drop	Packets/s	Volume of data received and then dropped by ENI	host4nodenetwork, id4nodenetwork
NodeNetworkPackets Eth0ReceiveErrs	ENI data packet rate _eth0-receive_errs	Packets/s	Volume of data failed to be received by ENI	host4nodenetwork, id4nodenetwork
NodeNetworkPackets Eth0TransmitDrop	ENI data packet rate _eth0-transmit_drop	Packets/s	Volume of data sent and then dropped by ENI	host4nodenetwork, id4nodenetwork
NodeNetworkPackets Eth0TransmitErrs	ENI data packet rate _eth0-transmit_errs	Packets/s	Volume of data failed to be sent by ENI	host4nodenetwork, id4nodenetwork
NodeNetworkPackets Eth0TransmitPackets	ENI data packet rate _eth0_transmit_packets	Packets/s	Number of packets sent by ENI	host4nodenetwork, id4nodenetwork
NodeNetworkTcp SocketTcpInuse	TCP sockets _TCP_inuse	Count	Number of TCP sockets in use (listening)	host4nodenetwork, id4nodenetwork
NodeNetworkTcp SocketTcpOrphan	TCP sockets _TCP_orphan	Count	Number of TCP connections waiting to be closed	host4nodenetwork, id4nodenetwork
NodeNetwork TcpSocketTcpTw	TCP sockets _TCP_tw	Count	Number of TCP sockets to be destroyed	host4nodenetwork, id4nodenetwork
NodeNetworkTcp SocketSocketsUsed	TCP sockets _sockets_used	Count	Number of users using TCP sockets	host4nodenetwork, id4nodenetwork
NodeNetworkTcp SocketTcpAlloc	TCP sockets _TCP_alloc	Count	Number of TCP sockets allocated (established, obtained sk_buff)	host4nodenetwork, id4nodenetwork
NodeNetworkTcp ConnectionStateEstablished	TCP connection status _ESTABLISHED	Count	Number of TCP connections in the Established state	host4nodenetwork, id4nodenetwork
NodeNetworkTcp ConnectionStateSynSent	TCP connection status _SYN-SENT	Count	Number of TCP connections in the SYN-SENT state	host4nodenetwork, id4nodenetwork
NodeNetworkTcp ConnectionStateSynRecv	TCP connection status _SYN-RCV	Count	Number of TCP connections in the SYN-RCV state	host4nodenetwork, id4nodenetwork
NodeNetworkTcp ConnectionStateClose	TCP connection status _CLOSE	Count	Number of TCP connections in the CLOSE state	host4nodenetwork, id4nodenetwork
NodeNetworkTcp ConnectionStateCloseWait	TCP connection status _CLOSE-WAIT	Count	Number of TCP connections in the CLOSE-WAIT state	host4nodenetwork, id4nodenetwork
NodeNetworkTcp ConnectionStateListen	TCP connection status _LISTEN	Count	Number of TCP connections in the LISTEN state	host4nodenetwork, id4nodenetwork
NodeNetworkTcp ConnectionStateClosing	TCP connection status _CLOSING	Count	Number of TCP connections in the CLOSING state	host4nodenetwork, id4nodenetwork

**Server - Filehandle**

Parameter	Metric Name	Unit	Description	Dimension
NodeFdFilefdAllocated	File handles_allocated	Count	Number of allocated file handles	host4nodefilehandle, id4nodefilehandle
NodeFdFilefdMaximum	File handles_maximum	Count	Maximum number of file handles	host4nodefilehandle, id4nodefilehandle

**Server - Process**

Parameter	Metric Name	Unit	Description	Dimension
NodeIntrIntrTotal	System interrupts_intr_total	Interrupts/s	Number of system interrupts	host4nodeprocess, id4nodeprocess

Parameter	Metric Name	Unit	Description	Dimension
NodeSwitchesContext SwitchesTotal	System context switches_context_switches_total	Switches/s	Number of system context switches	host4nodeprocess, id4nodeprocess
NodeProcsForksTotal	System processes_forks_total	Processes/s	Number of new system processes	host4nodeprocess, id4nodeprocess
NodeProcsProcsRunning	System processes_procs_running	Processes/s	Number of running system processes	host4nodeprocess, id4nodeprocess
NodeProcsProcsBlocked	System processes_procs_blocked	Processes/s	Number of blocked system processes	host4nodeprocess, id4nodeprocess
NodeProcsProcsTotal	System processes_procs_total	Processes/s	Total number of system processes	host4nodeprocess, id4nodeprocess
NodeAgentVersion Agentversion	Agent version_AgentVersion	version	Agent version	host4nodeprocess, id4nodeprocess

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	id4nodecpu	Dimension name of the EMR instance ID	String-type dimension name, such as id4nodecpu
Instances.N.Dimensions.0.Value	id4nodecpu	Specific EMR instance ID	Specific instance ID, such as emr-abcdef88
Instances.N.Dimensions.1.Name	host4nodecpu	Dimension name of the node IP in the EMR instance	String-type dimension name, such as host4nodecpu
Instances.N.Dimensions.1.Name	host4nodecpu	Specific node IP in the EMR instance	Specific node IP, such as 1.1.1.1
Instances.N.Dimensions.0.Name	id4nodememory	Dimension name of the EMR instance ID	String-type dimension name, such as id4nodememory
Instances.N.Dimensions.0.Value	id4nodememory	Specific EMR instance ID	Specific instance ID, such as emr-abcdef88
Instances.N.Dimensions.1.Name	host4nodememory	Dimension name of the node IP in the EMR instance	String-type dimension name, such as host4nodememory
Instances.N.Dimensions.1.Name	host4nodememory	Specific node IP in the EMR instance	Specific node IP, such as 1.1.1.1
Instances.N.Dimensions.0.Name	id4nodenetwork	Dimension name of the EMR instance ID	String-type dimension name, such as id4nodenetwork
Instances.N.Dimensions.0.Value	id4nodenetwork	Specific EMR instance ID	Specific instance ID, such as emr-abcdef88
Instances.N.Dimensions.1.Name	host4nodenetwork	Dimension name of the node IP in the EMR instance	String-type dimension name, such as host4nodenetwork
Instances.N.Dimensions.1.Name	host4nodenetwork	Specific node IP in the EMR instance	Specific node IP, such as 1.1.1.1
Instances.N.Dimensions.0.Name	id4nodefilehandle	Dimension name of the EMR instance ID	String-type dimension name, such as id4nodefilehandle
Instances.N.Dimensions.0.Value	id4nodefilehandle	Specific EMR instance ID	Specific instance ID, such as emr-abcdef88
Instances.N.Dimensions.1.Name	host4nodefilehandle	Dimension name of the node IP in the EMR instance	String-type dimension name, such as host4nodefilehandle
Instances.N.Dimensions.1.Name	host4nodefilehandle	Specific node IP in the EMR instance	Specific node IP, such as 1.1.1.1
Instances.N.Dimensions.0.Name	id4nodeprocess	Dimension name of the EMR instance ID	String-type dimension name, such as id4nodeprocess
Instances.N.Dimensions.0.Value	id4nodeprocess	Specific EMR instance ID	Specific instance ID, such as emr-abcdef88

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.1.Name	host4nodeprocess	Dimension name of the node IP in the EMR instance	String-type dimension name, such as host4nodeprocess
Instances.N.Dimensions.1.Name	host4nodeprocess	Specific node IP in the EMR instance	Specific node IP, such as 1.1.1.1

## Input Parameters

EMR (Node) supports querying monitoring data based on the following five combinations of dimensions. The values for the input parameters are as follows:

**1. To query the metric monitoring data of Server - CPU, use the following input parameters:**

```
&Namespace=QCE/TXMR_NODE
&Instances.N.Dimensions.0.Name=id4nodecpu
&Instances.N.Dimensions.0.Value=EMR instance ID
&Instances.N.Dimensions.1.Name=host4nodecpu
&Instances.N.Dimensions.1.Value=Specific node IP in the EMR instance
```

**2. To query the metric monitoring data of Server - Memory, use the following input parameters:**

```
&Namespace=QCE/TXMR_NODE
&Instances.N.Dimensions.0.Name=id4nodememory
&Instances.N.Dimensions.0.Value=EMR instance ID
&Instances.N.Dimensions.1.Name=host4nodememory
&Instances.N.Dimensions.1.Value=Specific node IP in the EMR instance
```

**3. To query the metric monitoring data of Server - Network, use the following input parameters:**

```
&Namespace=QCE/TXMR_NODE
&Instances.N.Dimensions.0.Name=id4nodenetwork
&Instances.N.Dimensions.0.Value=EMR instance ID
&Instances.N.Dimensions.1.Name=host4nodenetwork
&Instances.N.Dimensions.1.Value=Specific node IP in the EMR instance
```

**4. To query the metric monitoring data of Server - Filehandle, use the following input parameters:**

```
&Namespace=QCE/TXMR_NODE
&Instances.N.Dimensions.0.Name=id4nodefilehandle
&Instances.N.Dimensions.0.Value=EMR instance ID
&Instances.N.Dimensions.1.Name=host4nodefilehandle
&Instances.N.Dimensions.1.Value=Specific node IP in the EMR instance
```

**5. To query the metric monitoring data of Server - Process, use the following input parameters:**

```
&Namespace=QCE/TXMR_NODE
&Instances.N.Dimensions.0.Name=id4nodeprocess
&Instances.N.Dimensions.0.Value=EMR instance ID
&Instances.N.Dimensions.1.Name=host4nodeprocess
&Instances.N.Dimensions.1.Value=Specific node IP in the EMR instance
```

# EMR (Presto)

Last updated : 2020-09-08 10:40:08

## Namespace

Namespace=QCE/TXMR\_PRESTO

## Monitoring Metrics

### Presto - Overview

Parameter	Metric Name	Unit	Description	Dimension
EmrPrestoOverviewPrestoPrestoMNodesActive	Number of nodes_Active	-	Number of active nodes	id4prestooverview
EmrPrestoOverviewPrestoPrestoMNodesTotal	Number of nodes_Total	-	Total number of nodes	id4prestooverview
EmrPrestoOverviewPrestoPrestoMNodesFailed	Number of nodes_Failed	-	Number of failed nodes	id4prestooverview
EmrPrestoOverviewPrestoPrestoMQueriesRunningqueries	Queries_RunningQueries	-	Total number of running queries	id4prestooverview
EmrPrestoOverviewPrestoMQueriesOneMinuteFailedqueries	Query frequency_FailedQueries	Queries/min	Total number of failed queries	id4prestooverview
EmrPrestoOverviewPrestoMQueriesOneMinuteAbandonedqueries	Query frequency_AbandonedQueries	Queries/min	Total number of aborted queries	id4prestooverview
EmrPrestoOverviewPrestoMQueriesOneMinuteCanceledqueries	Query frequency_CanceledQueries	Queries/min	Total number of canceled queries	id4prestooverview
EmrPrestoOverviewPrestoMQueriesOneMinuteCompletedqueries	Query frequency_CompletedQueries	Queries/min	Total number of completed queries	id4prestooverview
EmrPrestoOverviewPrestoMQueriesOneMinuteStartedqueries	Query frequency_StartedQueries	Queries/min	Total number of started queries	id4prestooverview
EmrPrestoOverviewPrestoMDataOneMinuteRateInputdatasizeoneminute	Volume of input/output data per minute_InputDataSizeOneMinute	GB/min	Data input rate	id4prestooverview
EmrPrestoOverviewPrestoMDataOneMinuteRateOutputdatasizeoneminute	Volume of input/output data per minute_OutputDataSizeOneMinute	GB/min	Data output rate	id4prestooverview

### Presto - OverviewOriginal

Parameter	Metric Name	Unit	Description	Dimension
EmrPrestoOverviewOriginalPrestoPrestoMNodesActive	Number of nodes_Active	-	Number of active nodes	id4prestooverview, host4prestooverview
EmrPrestoOverviewOriginalPrestoPrestoMNodesTotal	Number of nodes_Total	-	Total number of nodes	id4prestooverview, host4prestooverview

EmrPrestoOverview OriginalPresto PrestoMNodesFailed	Number of nodes_Failed	-	Number of failed nodes	id4prestooverview, host4prestooverview
EmrPrestoOverview OriginalPresto PrestoMQueries Runningqueries	Queries_RunningQueries	-	Total number of running queries	id4prestooverview, host4prestooverview
EmrPrestoOverview OriginalPresto MQueriesOneMinute Failedqueries	Query frequency_FailedQueries	Queries/min	Total number of failed queries	id4prestooverview, host4prestooverview
EmrPrestoOverview OriginalPresto MQueriesOneMinute Abandonedqueries	Query frequency_AbandonedQueries	Queries/min	Total number of aborted queries	id4prestooverview, host4prestooverview
EmrPrestoOverview OriginalPresto MQueriesOneMinute Canceledqueries	Query frequency_CanceledQueries	Queries/min	Total number of canceled queries	id4prestooverview, host4prestooverview
EmrPrestoOverview OriginalPresto MQueriesOneMinute Completedqueries	Query frequency_CompletedQueries	Queries/min	Total number of completed queries	id4prestooverview, host4prestooverview
EmrPrestoOverview OriginalPresto MQueriesOneMinute Startedqueries	Query frequency_StartedQueries	Queries/min	Total number of started queries	id4prestooverview, host4prestooverview
EmrPrestoOverview OriginalPresto MDataOneMinuteRate Inputdatasizeoneminute	Volume of input/output data per minute_InputDataSizeOneMinute	GB/min	Data input rate	id4prestooverview, host4prestooverview
EmrPrestoOverview OriginalPresto MDataOneMinuteRate Outputdatasizeoneminute	Volume of input/output data per minute_OutputDataSizeOneMinute	GB/min	Data output rate	id4prestooverview, host4prestooverview

**Presto - Worker**

Parameter	Metric Name	Unit	Description	Dimension
PrestoWGcUtilGcCountYgc	GC count_YGC	-	Young GC count	host4prestoprestoworker, id4prestoprestoworker
PrestoWGcUtilGcCountFgc	GC count_FGC	-	Full GC count	host4prestoprestoworker, id4prestoprestoworker
PrestoWGcUtilGcTimeFgct	GC time_FGCT	s	Time consumed by Full GC	host4prestoprestoworker, id4prestoprestoworker
PrestoWGcUtilGcTimeGct	GC time_FGCT	s	Time used to collect garbage	host4prestoprestoworker, id4prestoprestoworker
PrestoWGcUtilGcTimeYgct	GC time_YGCT	s	Time consumed by Young GC	host4prestoprestoworker, id4prestoprestoworker
PrestoWGcUtilMemoryS0	Memory space percentage_S0	%	Percentage of used Survivor 0 memory	host4prestoprestoworker, id4prestoprestoworker
PrestoWGcUtilMemoryE	Memory space percentage_E	%	Percentage of used Eden memory	host4prestoprestoworker, id4prestoprestoworker
PrestoWGcUtilMemoryCcs	Memory space percentage_CCS	%	Percentage of memory used by compressed class space	host4prestoprestoworker, id4prestoprestoworker

PrestoWGcUtilMemoryS1	Memory space percentage_S1	%	Percentage of used Survivor 1 memory	host4prestoprestoworker, id4prestoprestoworker
PrestoWGcUtilMemoryO	Memory space percentage_O	%	Percentage of used Old memory	host4prestoprestoworker, id4prestoprestoworker
PrestoWGcUtilMemoryM	Memory space percentage_M	%	Percentage of used Metaspace memory	host4prestoprestoworker, id4prestoprestoworker
PrestoWJvmMemMem nonheapusedm	JVM memory_MemNonHeapUsedM	MB	Size of the NonHeapMemory currently used by JVM	host4prestoprestoworker, id4prestoprestoworker
PrestoWJvmMemMem nonheapcommittedm	JVM memory_MemNonHeapCommittedM	MB	Size of the NonHeapMemory currently committed by JVM	host4prestoprestoworker, id4prestoprestoworker
PrestoWJvmMem Memheapusedm	JVM memory_MemHeapUsedM	MB	Size of the HeapMemory currently used by JVM	host4prestoprestoworker, id4prestoprestoworker
PrestoWJvmMemMem heapcommittedm	JVM memory_MemHeapCommittedM	MB	Size of the HeapMemory currently committed by JVM	host4prestoprestoworker, id4prestoprestoworker
PrestoWJvmMem Memheapmaxm	JVM memory_MemHeapMaxM	MB	Size of the HeapMemory configured by JVM	host4prestoprestoworker, id4prestoprestoworker
PrestoWJvmMem Memheapinitm	JVM memory_MemHeapInitM	MB	Size of the initial JVM HeapMem	host4prestoprestoworker, id4prestoprestoworker
PrestoWJvmMem Memnonheapinitm	JVM memory_MemNonHeapInitM	MB	Size of the initial JVM NonHeapMem	host4prestoprestoworker, id4prestoprestoworker
PrestoWDataOneMinute RateInputdatasizeoneminute	Data input/output rate_InputDataSizeOneMinute	GB/min	Data input rate	host4prestoprestoworker, id4prestoprestoworker
PrestoWDataOneMinute RateOutputdata sizeoneminute	Data input/output rate_OutputDataSizeOneMinute	GB/min	Data output rate	host4prestoprestoworker, id4prestoprestoworker
PrestoWThreadCount Peakthreadcount	Number of threads_PeakThreadCount	-	Peak number of threads	host4prestoprestoworker, id4prestoprestoworker
PrestoWThreadCount Daemonthreadcount	Number of threads_DaemonThreadCount	-	Number of threads	host4prestoprestoworker, id4prestoprestoworker
PrestoWThreadCount Threadcount	Number of threads_ThreadCount	-	Number of background threads	host4prestoprestoworker, id4prestoprestoworker
PrestoWUptimeUptime	Process run time_Uptime	s	Process run time	host4prestoprestoworker, id4prestoprestoworker
PrestoWStartTimeStarttime	Process start time_StartTime	s	Process start time	host4prestoprestoworker, id4prestoprestoworker
PrestoWOfdCount Maxfiledescriptorcount	Number of file descriptors_MaxFileDescriptorCount	-	Maximum number of file descriptors	host4prestoprestoworker, id4prestoprestoworker
PrestoWOfdCount Openfiledescriptorcount	Number of file descriptors_OpenFileDescriptorCount	-	Number of opened file descriptors	host4prestoprestoworker, id4prestoprestoworker

**Presto - Coordinator**

Parameter	Metric Name	Unit	Description	Dimension
PrestoMGc UtilGcCountYgc	GC count_YGC	-	Young GC count	host4prestoprestocoordinator, id4prestoprestocoordinator
PrestoMGc UtilGcCountFgc	GC count_FGC	-	Full GC count	host4prestoprestocoordinator, id4prestoprestocoordinator
PrestoMGc UtilGcTimeFgct	GC time_FGCT	s	Time consumed by Full GC	host4prestoprestocoordinator, id4prestoprestocoordinator



PrestoMGcUtilGcTimeGct	GC time_FGCT	s	Time used to collect garbage	host4prestoprestocoordinator, id4prestoprestocoordinator
PrestoMGcUtilGcTimeYgct	GC time_YGCT	s	Time consumed by Young GC	host4prestoprestocoordinator, id4prestoprestocoordinator
PrestoMGcUtilMemoryS0	Memory space percentage_S0	%	Percentage of used Survivor 0 memory	host4prestoprestocoordinator, id4prestoprestocoordinator
PrestoMGcUtilMemoryE	Memory space percentage_E	%	Percentage of used Eden memory	host4prestoprestocoordinator, id4prestoprestocoordinator
PrestoMGcUtilMemoryCcs	Memory space percentage_CCS	%	Percentage of memory used by compressed class space	host4prestoprestocoordinator, id4prestoprestocoordinator
PrestoMGcUtilMemoryS1	Memory space percentage_S1	%	Percentage of used Survivor 1 memory	host4prestoprestocoordinator, id4prestoprestocoordinator
PrestoMGcUtilMemoryO	Memory space percentage_O	%	Percentage of used Old memory	host4prestoprestocoordinator, id4prestoprestocoordinator
PrestoMGcUtilMemoryM	Memory space percentage_M	%	Percentage of used Metaspace memory	host4prestoprestocoordinator, id4prestoprestocoordinator
PrestoMJvmMemMemnonheapusedm	JVM memory_MemNonHeapUsedM	MB	Size of the NonHeapMemory currently used by JVM	host4prestoprestocoordinator, id4prestoprestocoordinator
PrestoMJvmMemMemnonheapcommittedm	JVM memory_MemNonHeapCommittedM	MB	Size of the NonHeapMemory currently committed by JVM	host4prestoprestocoordinator, id4prestoprestocoordinator
PrestoMJvmMemMemheapusedm	JVM memory_MemHeapUsedM	MB	Size of the HeapMemory currently used by JVM	host4prestoprestocoordinator, id4prestoprestocoordinator
PrestoMJvmMemMemheapcommittedm	JVM memory_MemHeapCommittedM	MB	Size of the HeapMemory currently committed by JVM	host4prestoprestocoordinator, id4prestoprestocoordinator
PrestoMJvmMemMemheapmaxm	JVM memory_MemHeapMaxM	MB	Size of the HeapMemory configured by JVM	host4prestoprestocoordinator, id4prestoprestocoordinator
PrestoMJvmMemMemheapinitm	JVM memory_MemHeapInitM	MB	Size of the initial JVM HeapMem	host4prestoprestocoordinator, id4prestoprestocoordinator
PrestoMJvmMemMemnonheapinitm	JVM memory_MemNonHeapInitM	MB	Size of the initial JVM NonHeapMem	host4prestoprestocoordinator, id4prestoprestocoordinator
PrestoMThreadCountPeakthreadcount	Number of threads_PeakThreadCount	-	Peak number of threads	host4prestoprestocoordinator, id4prestoprestocoordinator
PrestoMThreadCountDaemonthreadcount	Number of threads_DaemonThreadCount	-	Number of threads	host4prestoprestocoordinator, id4prestoprestocoordinator
PrestoMThreadCountThreadcount	Number of threads_ThreadCount	-	Peak number of background threads	host4prestoprestocoordinator, id4prestoprestocoordinator
PrestoMUptimeUptime	Process run time_Uptime	s	Process run time	host4prestoprestocoordinator, id4prestoprestocoordinator
PrestoMStartTimeStarttime	Process start time_StartTime	s	Process start time	host4prestoprestocoordinator, id4prestoprestocoordinator
PrestoMOsFdCountMaxfiledescriptorcount	Number of file descriptors_MaxFileDescriptorCount	-	Maximum number of file descriptors	host4prestoprestocoordinator, id4prestoprestocoordinator
PrestoMOsFdCountOpenfiledescriptorcount	Number of file descriptors_OpenFileDescriptorCount	-	Number of opened file descriptors	host4prestoprestocoordinator, id4prestoprestocoordinator

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format

Instances.N.Dimensions.0.Name	id4prestooverview	Dimension name of the EMR instance ID	String-type dimension name, such as id4prestooverview
Instances.N.Dimensions.0.Value	id4prestooverview	Specific EMR instance ID	Specific EMR instance ID, such as emr-mm8bs222
Instances.N.Dimensions.1.Name	host4prestooverview	Dimension name of the node IP in the EMR instance	String-type dimension name, such as host4prestooverview
Instances.N.Dimensions.1.Value	host4prestooverview	Specific node IP in the EMR instance	Specific node IP, such as 1.1.1.1
Instances.N.Dimensions.0.Name	id4prestoprestoworker	Dimension name of the EMR instance ID	String-type dimension name, such as id4prestoprestoworker
Instances.N.Dimensions.0.Value	id4prestoprestoworker	Specific EMR instance ID	Specific EMR instance ID, such as emr-mm8bs222
Instances.N.Dimensions.1.Name	host4prestoprestoworker	Dimension name of the node IP in the EMR instance	String-type dimension name, such as host4prestoprestoworker
Instances.N.Dimensions.1.Value	host4prestoprestoworker	Specific node IP in the EMR instance	Specific node IP, such as 1.1.1.1
Instances.N.Dimensions.0.Name	id4prestoprestocoordinator	Dimension name of the EMR instance ID	String-type dimension name, such as id27prestoprestocoordinator
Instances.N.Dimensions.0.Value	id4prestoprestocoordinator	Specific EMR instance ID	Specific EMR instance ID, such as emr-mm8bs222
Instances.N.Dimensions.1.Name	host4prestoprestocoordinator	Dimension name of the node IP in the EMR instance	String-type dimension name, such as host4prestoprestocoordinator
Instances.N.Dimensions.1.Value	host4prestoprestocoordinator	Specific node IP in the EMR instance	Specific node IP, such as 1.1.1.1

## Input Parameters

EMR (Presto) supports querying monitoring data based on the following four combinations of dimensions. The values for the input parameters are as follows:

### 1. To query the metric monitoring data of Presto - Overview, use the following input parameters:

```
&Namespace=QCE/TXMR_PRESTO
&Instances.N.Dimensions.0.Name=id4prestooverview
&Instances.N.Dimensions.0.Value=EMR instance ID
```

### 2. To query the metric monitoring data of Presto - OverviewOriginal, use the following input parameters:

```
&Namespace=QCE/TXMR_PRESTO
&Instances.N.Dimensions.0.Name=id4prestooverview
&Instances.N.Dimensions.0.Value=EMR instance ID
&Instances.N.Dimensions.1.Name=host4prestooverview
&Instances.N.Dimensions.1.Value=Specific node IP in the EMR instance
```

### 3. To query the metric monitoring data of Presto - Worker, use the following input parameters:

```
&Namespace=QCE/TXMR_PRESTO
&Instances.N.Dimensions.0.Name=id4prestoprestoworker
&Instances.N.Dimensions.0.Value=EMR instance ID
&Instances.N.Dimensions.1.Name=host4prestoprestoworker
&Instances.N.Dimensions.1.Value=Specific node IP in the EMR instance
```

### 4. To query the metric monitoring data of Presto - Coordinator, use the following input parameters:

```
&Namespace=QCE/TXMR_PRESTO
&Instances.N.Dimensions.0.Name=id27prestoprestocoordinator
&Instances.N.Dimensions.0.Value=EMR instance ID
&Instances.N.Dimensions.1.Name=host4prestoprestocoordinator
&Instances.N.Dimensions.1.Value=Specific node IP in the EMR instance
```

# EMR (Spark)

Last updated : 2020-07-28 16:16:59

## Namespace

Namespace=QCE/TXMR\_SPARK

## Monitoring Metrics

### Spark - SparkJobHistory

Parameter	Metric Name	Description	Unit	Dimension
SparkShGcUtilGcCountYgc	GC count_YGC	Young GC count	Count	host4sparksparkjobhistoryserver id4sparksparkjobhistoryserver
SparkShGcUtilGcCountFgc	GC count_FGC	Full GC count	Count	host4sparksparkjobhistoryserver id4sparksparkjobhistoryserver
SparkShGcUtilGcTimeFgct	GC time_FGCT	Time consumed by Full GC	s	host4sparksparkjobhistoryserver id4sparksparkjobhistoryserver
SparkShGcUtilGcTimeGct	GC time_GCT	Time used to collect garbage	s	host4sparksparkjobhistoryserver id4sparksparkjobhistoryserver
SparkShGcUtilGcTimeYgct	GC time_YGCT	Time consumed by Young GC	s	host4sparksparkjobhistoryserver id4sparksparkjobhistoryserver
SparkShGcUtilMemoryS0	Memory space percentage_S0	Percentage of used Survivor 0 memory	%	host4sparksparkjobhistoryserver id4sparksparkjobhistoryserver
SparkShGcUtilMemoryE	Memory space percentage_E	Percentage of used Eden memory	%	host4sparksparkjobhistoryserver id4sparksparkjobhistoryserver
SparkShGcUtilMemoryCcs	Memory space percentage_CC5	Percentage of memory used by compressed class space	%	host4sparksparkjobhistoryserver id4sparksparkjobhistoryserver
SparkShGcUtilMemoryS1	Memory space percentage_S1	Percentage of used Survivor 1 memory	%	host4sparksparkjobhistoryserver id4sparksparkjobhistoryserver
SparkShGcUtilMemoryO	Memory space percentage_O	Percentage of used Old memory	%	host4sparksparkjobhistoryserver id4sparksparkjobhistoryserver
SparkShGcUtilMemoryM	Memory space percentage_M	Percentage of used Metaspace memory	%	host4sparksparkjobhistoryserver id4sparksparkjobhistoryserver

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	id4sparksparkjobhistoryserver	Dimension name of the EMR instance ID	String-type dimension name, such as id4sparksparkjobhistoryserver
Instances.N.Dimensions.0.Value	id4sparksparkjobhistoryserver	Specific EMR instance ID	Specific EMR instance ID, such as emr-mm8bs222
Instances.N.Dimensions.1.Name	host4sparksparkjobhistoryserver	Dimension name of the node IP in the EMR instance	String-type dimension name, such as host4sparksparkjobhistoryserver
Instances.N.Dimensions.1.Value	host4sparksparkjobhistoryserver	Specific node IP in the EMR instance	Specific node IP, such as 1.1.1.1

## Input Parameters

To query the monitoring data of EMR (Spark), use the following input parameters:

&Namespace=QCE/TXMR\_SPARK

&Instances.N.Dimensions.0.Name=id4sparksparkjobhistoryserver

&Instances.N.Dimensions.0.Value=Specific EMR instance ID

&Instances.N.Dimensions.1.Name=host4sparksparkjobhistoryserver

&Instances.N.Dimensions.1.Value=Specific node IP in the EMR instance

# Direct Connect

## Dedicated Tunnel Monitoring Metrics

Last updated : 2020-07-14 16:26:33

### Namespace

Namespace= QCE/DCX

### Monitoring Metrics

Parameter	Metric Name	Description	Unit	Dimension
InBandwidth	Network inbound bandwidth	Bandwidth rate from the access point AR toward the VPC instance, which indicates the inbound bandwidth data collected every one minute or five minutes	Kb/s	directConnectConnId
OutBandwidth	Newtork outbound bandwidth	Bandwidth rate from the VPC toward the access point AR, which indicates the outbound bandwidth data collected every one minute or five minutes	Kb/s	directConnectConnId
OutPkg	Outbound packets	Outbound packets for the current dedicated tunnel	Count	directConnectConnId
InPkg	Inbound packets	Inbound packets for the current dedicated tunnel	%	directConnectConnId

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the `period` supported by each metric.

### Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	directConnectConnId	Dimension name of the dedicated tunnel ID	Enter a string-type dimension name, such as <code>directConnectConnId</code>
Instances.N.Dimensions.0.Value	directConnectConnId	A specific dedicated tunnel ID	Enter a specific dedicated tunnel ID, such as <code>dc-e1h9wqp8</code>

### Input Parameters

To query the monitoring data of a dedicated tunnel, use the following input parameters:

&Namespace= QCE/DCX

&Instances.N.Dimensions.0.Name=directConnectConnId

&Instances.N.Dimensions.0.Value=

## Connection Monitoring Metrics

Last updated : 2020-08-19 15:22:41

### Namespace

Namespace= QCE/DC

### Monitoring Metrics

Parameter	Metric Name	Description	Unit	Dimension
OutBandwidth	Network outbound bandwidth	Average outbound traffic per second for a connection	Mbps	directConnectId
InBandwidth	Network inbound bandwidth	Average inbound traffic per second for a connection	Mbps	directConnectId

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the `period` supported by each metric.

### Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	directConnectId	Dimension name of the dedicated tunnel ID	Enter a string-type input parameter dimension name, such as directConnectId
Instances.N.Dimensions.0.Value	directConnectId	A specific connection ID	Enter a specific ID for a connection, such as dc-e1h9wqp8

### Parameters

To query the monitoring data of a dedicated tunnel, use the following input parameters:

&Namespace= QCE/DC

&Instances.N.Dimensions.0.Name=directConnectId

&Instances.N.Dimensions.0.Value=

# TencentDB

## TencentDB for SQL Server Monitoring API

Last updated : 2020-07-14 16:39:16

### Namespace

Namespace=QCE/SQLSERVER

### Monitoring Metrics

#### Common metrics

Parameter	Metric Name	Description	Unit	Dimension
Cpu	CPU utilization	Percentage of instance CPU usage	%	resourceId
Transactions	Number of transactions	Average number of transactions per second	Times/sec	resourceId
Connections	Number of connections	Average number of databases connected by users per second	Count	resourceId
Requests	Number of requests	Number of requests per second	Times/sec	resourceId
Logins	Number of logins	Number of logins per second	Times/sec	resourceId
Logouts	Number of logouts	Number of logouts per second	Times/sec	resourceId
Storage	Used storage	Sum of storage space consumed by instance database files and log files	GB	resourceId
InFlow	Inbound traffic	Sum of inbound packet sizes for all connections	KB/s	resourceId
OutFlow	Outbound traffic	Sum of outbound packet sizes for all connections	KB/s	resourceId
lops	Disk IOPS	Disk read/write operations per second	Times/sec	resourceId
DiskReads	Number of disk reads	Number of disk reads per second	Times/sec	resourceId
DiskWrites	Number of disk writes	Number of disk writes per second	Times/sec	resourceId
ServerMemory	Memory usage	Actual memory usage	MB	resourceId

#### Performance optimization metrics

Parameter	Metric Name	Description	Unit	Dimension
SlowQueries	Slow queries	Number of slow queries with a running time greater than one second	Count	resourceId
BlockedProcesses	Number of blocked processes	Number of currently blocked processes	Count	resourceId
LockedRequests	Number of lock requests	Average number of lock requests per second	Times/sec	resourceId
UserErrors	Number of user errors	Average number of user errors per second	Times/sec	resourceId
SqlCompilations	Number of SQL compilations	Average number of SQL compilations per second	Times/sec	resourceId
SqlRecompilations	Number of SQL recompilations	Average number of SQL recompilations per second	Times/sec	resourceId
FullScans	Number of full-table scans for SQL per second	Number of full scans without limitations per second	Times/sec	resourceId
BufferCacheHitRatio	Buffer cache hit rate	Data cache (memory) hit rate	%	resourceId
LatchWaits	Number of latch waits	Number of latch waits per second	Times/sec	resourceId
LockWaits	Average latency on a lock wait	Average wait time of each lock request resulting in lock wait	ms	resourceId

Parameter	Metric Name	Description	Unit	Dimension
NetworkIoWaits	I/O wait time	Average network I/O wait time	ms	resourceId
PlanCacheHitRatio	Plan cache hit rate	The hit rate of a plan. Each SQL statement has a plan with a hit rate	%	resourceId
FreeStorage	Residual capacity of the hard disk	Percentage of the residual capacity of the hard disk	%	resourceId

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the `period` supported by each metric.

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	resourceId	Dimension name of the instance resource ID	Enter a string-type dimension name, such as resourceId
Instances.N.Dimensions.0.Value	resourceId	A specific instance resource ID	Enter a specific instance resource ID, such as mssql-dh0123456

## Input Parameters

To query the monitoring data of TencentDB for SQL Server, use the following input parameters:

&Namespace=QCE/SQLSERVER

&Instances.N.Dimensions.0.Name=resourceId

&Instances.N.Dimensions.0.Value=



# TencentDB for MySQL Monitoring Metrics

Last updated : 2020-07-14 16:26:34

## Namespace

Namespace=QCE/CDB

## Monitoring Metrics

Parameter	Metric Name	Description	Unit	Dimension
CPUUseRate	CPU utilization	The CPU capacity can be overused during the idle period, and the CPU utilization may be greater than 100%	%	InstanceId and InstanceType
MemoryUseRate	Memory utilization	The memory capacity can be overused during the idle period, and the memory usage may be greater than 100%	%	InstanceId and InstanceType
MemoryUse	Memory usage	The memory capacity can be overused during the idle period, and the actual memory usage may be greater than the purchased specifications	MB	InstanceId and InstanceType
VolumeRate	Disk utilization	Used disk space/purchased instance space	%	InstanceId and InstanceType
RealCapacity	Disk usage (only including the usage of the data space)	Only includes the MySQL data directories and does not include the binlog/relaylog/undolog/errorlog/slowlog space	MB	InstanceId and InstanceType
Capacity	Disk used space (not including the usage of data and log space)	Includes the MySQL data directories and the binlog/relaylog/undolog/errorlog/slowlog space	MB	InstanceId and InstanceType
BytesSent	Private outbound traffic	Private outbound traffic per second	Byte/sec	InstanceId and InstanceType
BytesReceived	Private inbound traffic	Private inbound traffic per second	Byte/sec	InstanceId and InstanceType
QPS	Number of executions per second	Number of SQL statements (including insert, select, update, delete, and replace statements) executed in the database per second. The QPS metric reflects the actual processing capability of the TencentDB for Redis instances.	Times/sec	InstanceId and InstanceType
TPS	Number of transactions executed per second	Number of transactions executed in the database per second	Times/sec	InstanceId and InstanceType
MaxConnections	Maximum number of connections	Maximum number of connections in the database	Count	InstanceId and InstanceType
ThreadsConnected	Number of currently enabled thread connections	Number of currently enabled thread connections	Count	InstanceId and InstanceType

Parameter	Metric Name	Description	Unit	Dimension
ConnectionUseRate	Connection utilization	Number of currently enabled connections/Maximum number of connections	%	InstanceId and InstanceType
SlowQueries	Number of slow queries	Number of queries with an execution time greater than long_query_time seconds	Times/min	InstanceId and InstanceType
SelectScan	Number of full-table scans	Number of queries used for executing full-table scans	Times/sec	InstanceId and InstanceType
SelectCount	Number of queries	Number of queries per second	Times/sec	InstanceId and InstanceType
ComUpdate	Number of updates	Number of updates per second	Times/sec	InstanceId and InstanceType
ComDelete	Number of deletions	Number of deletions per second	Times/sec	InstanceId and InstanceType
ComInsert	Number of insertions	Number of insertions per second	Times/sec	InstanceId and InstanceType
ComReplace	Number of replacements	Number of replacements per second	Times/sec	InstanceId and InstanceType
Queries	Total requests	All executed SQL statements, including but not limited to set and show statements	Times/sec	InstanceId and InstanceType
QueryRate	Query utilization	QPS; that is, the number of executions per second/recommended operations per second	%	InstanceId and InstanceType
CreatedTmpTables	Number of temporary tables	Number of created temporary tables	Times/sec	InstanceId and InstanceType
TableLocksWaited	Number of table lock waits	Number of table locks that cannot be obtained immediately	Times/sec	InstanceId and InstanceType
InnodbCacheUseRate	InnoDB cache utilization	Cache utilization of the InnoDB engine	%	InstanceId and InstanceType
InnodbCacheHitRate	InnoDB cache hit rate	Cache hit ratio of the InnoDB engine	%	InstanceId and InstanceType
InnodbOsFileReads	Number of InnoDB disk reads	Number of disk file reads per second for the InnoDB engine	Times/sec	InstanceId and InstanceType
InnodbOsFileWrites	Number of InnoDB disk writes	Number of disk file writes per second for the InnoDB engine	Times/sec	InstanceId and InstanceType
InnodbOsFsyncs	Number of InnoDB fsync functions	Number of fsync function calls per second for the InnoDB engine	Times/sec	InstanceId and InstanceType

Parameter	Metric Name	Description	Unit	Dimension
InnodbNumOpenFiles	Number of tables opened in the InnoDB engine currently	Number of tables opened in the InnoDB engine currently	Count	InstanceId and InstanceType
KeyCacheUseRate	MyISAM cache utilization	Cache utilization of the MyISAM engine	%	InstanceId and InstanceType
KeyCacheHitRate	MyISAM cache hit rate	Cache hit rate of the MyISAM engine	%	InstanceId and InstanceType
ComCommit	Number of commits	Number of commits per second	Times/sec	InstanceId and InstanceType
ComRollback	Number of rollbacks	Number of rollbacks per second	Times/sec	InstanceId and InstanceType
ThreadsCreated	Number of created threads	Number of threads created for processing connections	Count	InstanceId and InstanceType
ThreadsRunning	Number of running threads	Number of running (non-idle) threads	InstanceId and InstanceType	
CreatedTmpDiskTables	Number of temporary disk tables	Number of temporary disk tables created per second	Times/sec	InstanceId and InstanceType
CreatedTmpFiles	Number of temporary files	Number of temporary files created per second	Times/sec	InstanceId and InstanceType
HandlerReadRndNext	Number of next-row read requests	Number of requests for reading the next row per second	Times/sec	InstanceId and InstanceType
HandlerRollback	Number of internal rollbacks	Number of transaction rollbacks per second	Times/sec	InstanceId and InstanceType
HandlerCommit	Number of internal commits	Number of transaction commits per second	Times/sec	InstanceId and InstanceType
InnodbBufferPoolPagesFree	Number of InnoDB blank pages	Number of memory blank pages of the InnoDB engine	Count	InstanceId and InstanceType
InnodbBufferPoolPagesTotal	Total number of InnoDB pages	Total number of memory pages occupied by the InnoDB engine	Count	InstanceId and InstanceType
InnodbBufferPoolReadRequests	InnoDB logic reads	Number of logic read requests completed per second for the InnoDB engine	Times/sec	InstanceId and InstanceType
InnodbBufferPoolReads	InnoDB physical reads	Number of physical read requests completed per second for the InnoDB engine	Times/sec	InstanceId and InstanceType
InnodbDataReads	Total volume of read InnoDB data	Number of data reads completed per second for the InnoDB engine	Times/sec	InstanceId and InstanceType

Parameter	Metric Name	Description	Unit	Dimension
InnoDBDataRead	Volume of read InnoDB data	Number of data bytes read per second for the InnoDB engine	Bytes/sec	InstanceId and InstanceType
InnoDBDataWrites	Total volume of written InnoDB data	Number of data writes completed per second for the InnoDB engine	Times/sec	InstanceId and InstanceType
InnoDBDataWritten	Volume of written InnoDB data	Number of data bytes written per second for the InnoDB engine	Bytes/sec	InstanceId and InstanceType
InnoDBRowsDeleted	Number of deleted InnoDB rows	Number of rows deleted per second for the InnoDB engine	Times/sec	InstanceId and InstanceType
InnoDBRowsInserted	Number of inserted InnoDB rows	Number of rows inserted per second for the InnoDB engine	Times/sec	InstanceId and InstanceType
InnoDBRowsUpdated	Number of updated InnoDB rows	Number of rows updated per second for the InnoDB engine	Times/sec	InstanceId and InstanceType
InnoDBRowsRead	Number of read InnoDB rows	Number of rows read per second for the InnoDB engine	Times/sec	InstanceId and InstanceType
InnoDBRowLockTimeAvg	Average time of obtaining a InnoDB row lock	Average time of obtaining a row lock for the InnoDB engine	ms	InstanceId and InstanceType
InnoDBRowLockWaits	Number of InnoDB row lock waits	Number of row lock waits per second for the InnoDB engine	Times/sec	InstanceId and InstanceType
KeyBlocksUnused	Number of unused blocks in the key cache	Number of unused key cache blocks for the MyISAM engine	Count	InstanceId and InstanceType
KeyBlocksUsed	Number of used blocks in the key cache	Number of used key cache blocks for the MyISAM engine	Count	InstanceId and InstanceType
KeyReadRequests	Number of data block reads for the key cache	Number of key cache block reads per second for the MyISAM engine	Times/sec	InstanceId and InstanceType
KeyReads	Number of data block reads for the hard disk	Number of hard-disk data block reads per second for the MyISAM engine	Times/sec	InstanceId and InstanceType
KeyWriteRequests	Number of data block writes for the key cache	Number of key cache block writes per second for the MyISAM engine	Times/sec	InstanceId and InstanceType
KeyWrites	Number of data block writes for the hard disk	Number of hard-disk data block writes per second for the MyISAM engine	Times/sec	InstanceId and InstanceType
OpenedTables	Number of opened tables	Number of tables opened in the database currently	Count	InstanceId and InstanceType
TableLocksImmediate	Number of table locks released immediately	Number of table locks released immediately	Count	InstanceId and InstanceType

Parameter	Metric Name	Description	Unit	Dimension
OpenFiles	Total number of opened files	Total number of files opened in the database currently	Count	InstanceId and InstanceType
LogCapacity	Log usage	Current log usage of the database	MB	InstanceId and InstanceType
SlaveIoRunning	State of the I/O thread	State of the I/O thread in the Slave	Count	InstanceId and InstanceType
SlaveSqlRunning	State of the SQL thread	State of the SQL thread in the Slave	Count	InstanceId and InstanceType
MasterSlaveSyncDistance	Latency distance between the Master and the Slave	Binlog difference between the Master and the Slave	MB	InstanceId and InstanceType
SecondsBehindMaster	Latency time between the Master and the Slave	Latency time between the Master and the Slave	MB	InstanceId and InstanceType

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the `period` supported by each metric.

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	InstanceId	Database instance ID	Enter a string-type dimension name, such as topicId
Instances.N.Dimensions.0.Value	InstanceId	A specific database ID	Enter a specific instance ID, such as topic-i4p4k0u0
Instances.N.Dimensions.1.Name	InstanceType	Database instance type	Enter a string-type dimension name, such as InstanceType
Instances.N.Dimensions.1.Value	InstanceType	Database instance type. The default value is 1: <ul style="list-style-type: none"> <li>if the default value of <code>InstanceType</code> is set to 1, it means to obtain the monitoring data of the Master.</li> <li>To obtain the <code>SlaveIoRunning</code>, <code>SlaveSqlRunning</code>, <code>MasterSlaveSyncDistance</code>, or <code>SecondsBehindMaster</code> monitoring data of the Slave, set the value of <code>InstanceType</code> to 2.</li> </ul>	Enter an instance type. The default value is 1.

## Input Parameters

To query the monitoring data of TencentDB for MySQL, use the following input parameters:

&Namespace=QCE/CDB

&Instances.N.Dimensions.0.Name=InstanceId

&Instances.N.Dimensions.0.Value=

# TencentDB for Redis

## Monitoring Metrics (CKV Edition)

Last updated : 2020-07-14 16:26:35

### Namespace

Namespace=QCE/REDIS

### Monitoring Metrics

Metric Name	Parameter	Collection Method (in Linux)	Statistical Method	Unit	Dimension
Total requests	Qps	Total number of commands within 1 minute divided by 60	This metric is collected every minute, and its value at the 5-minute granularity is its average over the last 5 minutes	Times/sec	redis_uid
Connections	Connections	Total number of connections within 1 minute	This metric is collected every minute, and its value at the 5-minute granularity is its sum over the last 5 minutes	Count	redis_uid
CPU utilization	CpuUs	Percentage of time during which the CPU is occupied, which is calculated by obtaining <code>/proc/stat</code> data	This metric is collected every minute, and its value at the 5-minute granularity is its average over the last 5 minutes	%	redis_uid
Inbound traffic	InFlow	Sum of inbound traffic within 1 minute	This metric is collected every minute, and its value at the 5-minute granularity is its sum over the last 5 minutes	Mb/min	redis_uid
Total keys	Keys	Maximum number of keys within 1 minute	This metric is collected every minute, and its value at the 5-minute granularity is its maximum over the last 5 minutes	Count	redis_uid

Metric Name	Parameter	Collection Method (in Linux)	Statistical Method	Unit	Dimension
Outbound traffic	OutFlow	Sum of outbound traffic within 1 minute	This metric is collected every minute, and its value at the 5-minute granularity is its sum over the last 5 minutes	Mb/min	redis_uuid
Write requests	StatGet	Number of get/hget/hgetall/hmget/mget/getbit/getrange command requests within 1 minute	This metric is collected every minute, and its value at the 5-minute granularity is its sum over the last 5 minutes	Times/min	redis_uuid
Read requests	StatSet	Number of set/hset/hmset/hsetnx/lset/mset/msetx/setbit/setex/setrange/setnx command requests within 1 minute	This metric is collected every minute, and its value at the 5-minute granularity is its sum over the last 5 minutes	Times/min	redis_uuid
Memory usage	Storage	Maximum consumed capacity within 1 minute	This metric is collected every minute, and its value at the 5-minute granularity is its maximum over the last 5 minutes	MB/min	redis_uuid
Memory utilization	StorageUs	Maximum percentage of the consumed capacity within 1 minute	This metric is collected every minute, and its value at the 5-minute granularity is its maximum over the last 5 minutes	%	redis_uuid

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the `period` supported by each metric.

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	redis_uuid	Dimension name of the instance ID	Enter a string-type dimension name, such as redis_uuid

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Value	redis_uuid	A specific instance ID	Enter a specific instance ID on TencentDB for Redis, such as crs-123456

## Input Parameters

To query the monitoring data of a TencentDB for Redis instance, use the following input parameters:

&Namespace= QCE/REDIS

&Instances.N.Dimensions.0.Name=redis\_uuid

&Instances.N.Dimensions.0.Value=



# Monitoring Metrics (Community Edition)

Last updated : 2020-08-17 16:29:52

## Namespace

Namespace=QCE/REDIS

## Monitoring Metrics

### Standard edition

Parameter	Metric Name	Unit	Description	Dimension
CpuUsMin	CPU utilization	%	Average CPU utilization	instanceid
StorageMin	Memory usage	MB	Actually used memory capacity, including the capacity for data and cache	instanceid
StorageUsMin	Memory utilization	%	Ratio of the actually used memory to the requested total memory	instanceid
KeysMin	Total number of keys	Count	Total number of keys (level-1 keys) in instance storage	instanceid
ExpiredKeysMin	Expired keys	Count	Number of keys expired in a time window, which corresponds to the value of <code>expired_keys</code> outputted by the <code>info</code> command	instanceid
EvictedKeysMin	Evicted keys	Count	Number of keys evicted in a time window, which corresponds to the value of <code>evicted_keys</code> outputted by the <code>info</code> command	instanceid
ConnectionsMin	Connections	Count	Number of TCP connections to an instance	instanceid
ConnectionsUsMin	Connection utilization	%	Ratio of the actual number of TCP connections to the maximum number of connections	instanceid
InFlowMin	Inbound traffic	Mb/s	Private inbound traffic	instanceid
InFlowUsMin	Inbound traffic utilization	%	Ratio of the actually used private inbound traffic to the maximum traffic	instanceid
OutFlowMin	Outbound traffic	Mb/s	Private outbound traffic	instanceid
OutFlowUsMin	Outbound traffic utilization	%	Ratio of the actually used private outbound traffic to the maximum traffic	instanceid
LatencyMin	Average execution latency	ms	Average execution latency between the proxy and the Redis server	instanceid
LatencyGetMin	Average execution latency of the <code>read</code> command	ms	Average execution latency of the <code>read</code> command between the proxy and the Redis server	instanceid
LatencySetMin	Average execution latency of the <code>write</code> command	ms	Average execution latency of the <code>write</code> command between the proxy and the Redis server	instanceid
LatencyOtherMin	Average execution latency of other commands	ms	Average execution latency of commands other than <code>read</code> and <code>write</code> between the proxy and the Redis server	instanceid
QpsMin	Total requests	Times/sec	QPS, that is, the number of command executions	instanceid
StatGetMin	Read requests	Times/min	Number of read command executions	instanceid
StatSetMin	Write requests	Times/min	Number of write command executions	instanceid
StatOtherMin	Other requests	Times/sec	Number of command executions other than reads and writes	instanceid

Parameter	Metric Name	Unit	Description	Dimension
BigValueMin	Big-value requests	Times/sec	Number of command executions for which the request size exceeds 32 KB	instanceid
SlowQueryMin	Slow queries	Count	Number of slow queries	instanceid
StatSuccessMin	Read request hits	Count	Number of existing read request keys, which corresponds to the value of the <code>keyspace_hits</code> metric outputted by the <code>info</code> command	instanceid
StatMissedMin	Read request misses	Count	Number of nonexistent read request keys, which corresponds to the value of the <code>keyspace_misses</code> metric outputted by the <code>info</code> command	instanceid
CmdErrMin	Execution errors	Count	Number of command execution errors, such as when a command does not exist or a parameter is incorrect	instanceid
CacheHitRatioMin	Read request hit rate	%	Key hits/(key hits + key misses). This metric reflects the severity of cache misses	instanceid

### Overview of cluster edition

Parameter	Metric Name	Unit	Description	Dimension
CpuUsMin	Average CPU utilization	%	Average CPU utilization	instanceid
CpuMaxUsMin	Maximum shard CPU utilization	%	Highest CPU utilization value of all shards in a cluster	instanceid
StorageMin	Memory usage	MB	Actually used memory capacity, including the capacity for data and cache	instanceid
StorageUsMin	Memory utilization	%	Ratio of the actually used memory to the requested total memory	instanceid
StorageMaxUsMin	Maximum shard memory utilization	%	Highest memory utilization value of all shards in a cluster	instanceid
KeysMin	Total number of keys	Count	Total number of keys (level-1 keys) in instance storage	instanceid
ExpiredKeysMin	Expired keys	Count	Number of keys expired in a time window, which corresponds to the value of <code>expired_keys</code> outputted by the <code>info</code> command	instanceid
EvictedKeysMin	Evicted keys	Count	Number of keys evicted in a time window, which corresponds to the value of <code>evicted_keys</code> outputted by the <code>info</code> command	instanceid
ConnectionsMin	Connections	Count	Number of TCP connections to an instance	instanceid
ConnectionsUsMin	Connection utilization	%	Ratio of the actual number of TCP connections to the maximum number of connections	instanceid
InFlowMin	Inbound traffic	Mb/s	Private inbound traffic	instanceid
InFlowUsMin	Inbound traffic utilization	%	Ratio of the actually used private inbound traffic to the maximum traffic	instanceid
OutFlowMin	Outbound traffic	Mb/s	Private outbound traffic	instanceid
OutFlowUsMin	Outbound traffic utilization	%	Ratio of the actually used private outbound traffic to the maximum traffic	instanceid
LatencyMin	Average execution latency	ms	Average execution latency between the proxy and the Redis server	instanceid
LatencyGetMin	Average execution latency of the <code>read</code> command	ms	Average execution latency of the <code>read</code> command between the proxy and the Redis server	instanceid
LatencySetMin	Average execution latency of the <code>write</code> command	ms	Average execution latency of the <code>write</code> command between the proxy and the Redis server	instanceid

Parameter	Metric Name	Unit	Description	Dimension
LatencyOtherMin	Average execution latency of other commands	ms	Average execution latency of commands other than <code>read</code> and <code>write</code> between the proxy and the Redis server	instanceid
QpsMin	Total requests	Times/sec	QPS, that is, the number of command executions	instanceid
StatGetMin	Read requests	Times/sec	Number of read command executions	instanceid
StatSetMin	Write requests	Times/sec	Number of write command executions	instanceid
StatOtherMin	Other requests	Times/sec	Number of command executions other than reads and writes	instanceid
BigValueMin	Big-value requests	Times/sec	Number of command executions for which the request size exceeds 32 KB	instanceid
SlowQueryMin	Slow queries	Count	Number of command executions with a latency greater than the <code>slowlog_log_slower_than</code> configuration	instanceid
StatSuccessMin	Read request hits	Count	Number of existing read request keys, which corresponds to the value of the <code>keyspace_hits</code> metric outputted by the <code>info</code> command	instanceid
StatMissedMin	Read request misses	Count	Number of nonexistent read request keys, which corresponds to the value of the <code>keyspace_misses</code> metric outputted by the <code>info</code> command	instanceid
CmdErrMin	Execution errors	Count	Number of command execution errors, such as when a command does not exist or a parameter is incorrect	instanceid
CacheHitRatioMin	Read request hit rate	%	Key hits/(key hits + key misses). This metric reflects the severity of cache misses	instanceid

### Cluster sharding

Parameter	Metric Name	Unit	Description	Dimension
CpuUsNodeMin	CPU utilization	%	Average CPU utilization	instanceid and clusterid
StorageNodeMin	Memory usage	MB	Actually used memory capacity, including the capacity for data and cache	instanceid and clusterid
StorageUsNodeMin	Memory utilization	%	Ratio of the actually used memory to the requested total memory	instanceid and clusterid
KeysNodeMin	Total number of keys	Count	Total number of keys (level-1 keys) in instance storage	instanceid and clusterid
ExpiredKeysNodeMin	Expired keys	Count	Number of keys expired in a time window, which corresponds to the value of <code>expired_keys</code> outputted by the <code>info</code> command	instanceid and clusterid
EvictedKeysNodeMin	Evicted keys	Count	Number of keys evicted in a time window, which corresponds to the value of <code>evicted_keys</code> outputted by the <code>info</code> command	instanceid and clusterid
QpsNodeMin	Total requests	Times/sec	QPS, that is, the number of command executions	instanceid and clusterid
StatGetNodeMin	Read requests	Times/sec	Number of read command executions	instanceid and clusterid

Parameter	Metric Name	Unit	Description	Dimension
StatSetNodeMin	Write requests	Times/sec	Number of write command executions	instanceid and clusterid
StatOtherNodeMin	Other requests	Times/sec	Number of command executions other than reads and writes	instanceid and clusterid
SlowQueryNodeMin	Slow queries	Count	Number of command executions with a latency greater than the <code>slowlog_log_slower_than</code> configuration	instanceid and clusterid
StatSuccessNodeMin	Read request hits	Count	Number of existing read request keys, which corresponds to the value of the <code>keyspace_hits</code> metric outputted by the <code>info</code> command	instanceid and clusterid
StatMissedNodeMin	Read request misses	Count	Number of nonexistent read request keys, which corresponds to the value of the <code>keyspace_misses</code> metric outputted by the <code>info</code> command	instanceid and clusterid
CmdErrNodeMin	Execution errors	Count	Number of command execution errors, such as when a command does not exist or a parameter is incorrect	instanceid and clusterid
CacheHitRatioNodeMin	Read request hit rate	%	Key hits/(key hits + key misses). This metric reflects the severity of cache misses. If the number of access requests is 0, the value of this metric will be null	instanceid and clusterid

**Note :**

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to get the `period` supported by each API.

## Overview of Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	instanceid	Dimension name of the instance ID	Enter a string-type dimension name, such as instanceid
Instances.N.Dimensions.0.Value	instanceid	A specific instance ID	Enter a specific Redis instance ID, such as tdsq1-123456. The specific Redis instance ID can also be an instance string, such as crs-ifmymj41. It can be queried through the <a href="#">DescribeRedis</a> API
Instances.N.Dimensions.1.Name	clusterid	Dimension name of the shard ID	Enter a string-type dimension name, such as clusterid. <ul style="list-style-type: none"> <li>To pull overall information, do not pass in this parameter.</li> <li>To pull shard information, the input parameter must be <code>clusterid</code></li> </ul>
Instances.N.Dimensions.1.Value	clusterid	A specific shard ID	Enter a specific shard ID such as tdsq1-123456, which can be obtained by running commands such as <code>cluster nodes</code>

## Input Parameters

To query the monitoring data of TencentDB for Redis, use the following input parameters:

&Namespace=QCE/REDIS

&Instances.N.Dimensions.0.Name=instanceid

&Instances.N.Dimensions.0.Value=instance ID

# TencentDB for MongoDB Monitoring Metrics

Last updated : 2020-09-10 17:57:04

## Namespace

Namespace=QCE/CMONGO

## Monitoring Metrics

### Note :

The metrics `Aggregates` , `Timeouts` and `Conn` are deprecated.

Parameter	Metric Name	Description	Unit	Dimension
Inserts	Write requests	Writes per unit time	Times	target (instance ID)
Reads	Read requests	Reads per unit time	Times	target (instance ID)
Updates	Update requests	Updates per unit time	Times	target (instance ID)
Deletes	Delete requests	Deletions per unit time	Times	target (instance ID)
Counts	Count requests	Counts per unit time	Times	target (instance ID)
ClusterConn	Cluster connections	Total number of cluster connections, which indicates the connections received by the current cluster proxy	Times	target (instance ID)
Commands	Command requests	Number of command requests	Times	target (instance ID)
Connper	Percentage of cluster connections	Ratio of the current cluster connections to the configured total cluster connections	%	target (instance ID)
ClusterDiskUsage	Cluster capacity utilization	Ratio of the actually used storage space to the configured total capacity	%	target (instance ID)
QPS	Operations	Operations per second, including CRUD operations	Times/sec	target (instance ID)
Success	Number of successful requests	Number of successful requests per unit time	Times	target (instance ID)
Delay10	Number of requests with a latency between 10 ms and 50 ms	Number of successful requests with a latency between 10 ms and 50 ms per unit time	Times	target (instance ID)
Delay50	Number of requests with a latency between 50 ms and 100	Number of successful requests with a latency between 50 ms and 100 ms per unit time	Times	target (instance ID)

	ms			ID)
Delay100	Number of requests with a latency over 100 ms	Number of successful requests with a latency over 100 ms	Times	target (instance ID)
ReplicaDiskUsage	Disk utilization	Replica set capacity utilization	%	target (replica set ID)
Slavedelay	Master-Slave latency	Average latency per unit time between the Master and Slave	Second	target (replica set ID)
Oplogreservedtime	Oplog save time	Time difference between the last operation and the first operation for Oplog records	Hour	target (replica set ID)
Cpuusage	CPU utilization	CPU utilization	%	target (node ID)
Memusage	Memory utilization	Memory utilization	%	target (node ID)
Qr	Read request queue length	Number of read requests in the waiting queue	Count	target (node ID)
Qw	Write request queue length	Number of write requests in the waiting queue	Count	target (node ID)
Netin	Network inbound traffic	Network inbound traffic	MB/s	target (node ID)
Netout	Network outbound traffic	Network outbound traffic	MB/s	target (node ID)

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the `period` supported by each metric.

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	target	Dimension name of target	Enter a string-type dimension name, such as target
Instances.N.Dimensions.0.Value	target	Subject to the actual query dimension	See the <a href="#">value reference table</a>

### TencentDB for Redis Instances.N.Dimensions.0.Value:

Tencent Cloud's MongoDB is a cluster service. You can use the API to query the monitoring data of MongoDB from three dimensions: "cluster", "replica set", and "node".

- "Cluster" represents a MongoDB instance that you purchased. You can query the number of read/write requests, the capacity utilization, and the timeout requests of the entire instance through this dimension.
- The "replica set" dimension can be used to query the internal capacity utilization and the master-slave latency of a replica set in the cluster. A replica set instance contains only one replica set, and each shard of a sharding instance is a replica.
- The "node" dimension can be used to query information such as the CPU and the memory utilization of a node in a cluster.

### Reference table of dimensions.0.value

Value Type	Sample Value	Parameter Description
Instance ID	cmgo-6ielucen	Instance ID, the unique identifier of a MongoDB instance. <ul style="list-style-type: none"> <li>It can be obtained on the <a href="#">MongoDB Console</a></li> <li>or by calling the MongoDB API</li> </ul>
Replica set ID	<ul style="list-style-type: none"> <li>cmgo-6ielucen_0</li> <li>cmgo-6ielucen_2</li> </ul>	A replica set ID can be obtained by appending "_index number" to the instance ID. The "index number" starts from 0 and has a maximum value that equals to 1 less than the number of replica sets. A replica set instance has only one replica set so "_0" should be suffixed. A sharded instance has many shards, each of which is a replica set. For example, for the replica set ID of the third shard, suffix "_2"
Node ID	<ul style="list-style-type: none"> <li>cmgo-6ielucen_0-node-primary</li> <li>cmgo-6ielucen_1-node-slave0</li> <li>cmgo-6ielucen_3-node-slave2</li> </ul>	<ul style="list-style-type: none"> <li>Append "-node-primary" to the replica set ID to obtain the master node ID of the replica set.</li> <li>Append "-node-slave node index number" to the replica set ID to obtain the corresponding slave node ID. The "slave node index number" starts from 0 and has a maximum value that equals to 1 less than the number of slave nodes</li> </ul>

## Input Parameters

To query the monitoring data of TencentDB for MongoDB, use the following input parameters:

&Namespace=QCE/CMONGO

&Instances.N.Dimensions.0.Name=target

&Instances.N.Dimensions.0.Value=

# TencentDB for PostgreSQL Monitoring Metrics

Last updated : 2020-07-14 16:26:37

## Namespace

Namespace=QCE/POSTGRES

## Monitoring Metrics

Parameter	Metric Name	Description	Unit	Dimension
Connections	Number of connections	Historical trend of an instance's number of active connections	Count	resourceId
Cpu	CPU utilization	CPU utilization of an instance. The CPU utilization may be greater than 100% due to the use of flexible CPU limitation policies during the idle period	%	resourceId
HitPercent	Buffer cache hit rate	Data cache hit rate	%	resourceId
InFlow	Inbound traffic	Inbound traffic for instance read/write	KB/s	resourceId
OutFlow	Outbound traffic	Outbound traffic for instance read/write	KB/s	resourceId
Iops	Disk IOPS	Instance IOPS (requests per second)	Times/sec	resourceId
Memory	Memory usage	Disk storage space occupied by the instance	KB	resourceId
OtherCalls	Number of other requests	Total number of requests other than read and write requests (such as Drop requests), which is accumulated by minute	Times/min	resourceId
Qps	Number of queries per second	Number of queries per second	Times/sec	resourceId
WriteCalls	Number of write requests	Total number of write requests per minute	Times/min	resourceId
ReadCalls	Number of read requests	Total number of read requests per minute	Times/min	resourceId
ReadWriteCalls	Number of read and write requests	Total number of read and write requests (including Create/Read/Update/Delete (CRUD) requests) per minute	Times/min	resourceId
RemainXid	Number of remaining XIDs	Number of remaining Transaction IDs. There are a maximum of $2^{32}$ Transaction IDs. We recommend that you run "vacuum full" manually if the number of Transaction IDs is less than 1,000,000	Count	resourceId
SqlRuntimeAvg	Average execution latency	Average execution time of all SQL requests, excluding SQL requests in transactions	ms	resourceId
SqlRuntimeMax	Top-10 maximum execution latency	Average value of the top-10 maximum execution times for SQL requests	ms	resourceId
SqlRuntimeMin	Top-10 minimum execution latency	Average value of the top-10 minimum execution times for SQL requests	ms	resourceId
Storage	Used storage space	Storage capacity used for instances	resourceId	
XlogDiff	Xlog synchronization difference between the Master and the Slave	Sampling per minute. The Xlog synchronization difference between the Master and the Slave reflects the synchronization latency. Therefore, the smaller the Xlog synchronization difference is, the better the performance of the Master/Slave will be	Byte	resourceId
SlowQueryCnt	Slow queries	Number of queries with a query time greater than the specified time (1s by default)	Count	resourceId



Parameter	Metric Name	Description	Unit	Dimension
StorageRate	Storage space utilization	Storage space utilization of the instance	%	resourceId

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the `period` supported by each metric.

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	resourceId	Dimension name of the resourceId	Enter a string-type dimension name, such as resourceId
Instances.N.Dimensions.0.Value	resourceId	A specific instance resourceId	Enter a specific instance resourceId, such as postgres-123456

## Input Parameters

To query the monitoring data of PostgreSQL, use the following input parameters:

&Namespace=QCE/POSTGRES

&Instances.N.Dimensions.0.Name=resourceId

&Instances.N.Dimensions.0.Value=

# TencentDB for CYNOSDB\_MYSQL Monitoring Metrics

Last updated : 2020-07-14 16:39:16

## Namespace

Namespace=QCE/CYNOSDB\_MYSQL

## Monitoring Metrics

Parameter	Metric Name	Unit	Dimension
BytesReceived	Private inbound traffic	MB/%	Instanceld
BytesSent	Private outbound traffic	MB/%	Instanceld
ComDelete	Deletions	Times/sec	Instanceld
ComInsert	Insertions	Times/sec	Instanceld
CountSelect	Queries	Times/sec	Instanceld
ComUpdate	Updates	Times/sec	Instanceld
CpuUsageRate	CPU utilization	%	Instanceld
DbConnections	Number of connections	Count	Instanceld
MemoryUse	Memory usage	MB	Instanceld
Qps	Number of requests	Times/sec	Instanceld
StorageUsage	Storage usage	GB	Instanceld
Tps	Transactions per second	Times/sec	Instanceld
CacheHitRate	Cache hit rate	%	Instanceld
CacheHits	Cache hits	Times	Instanceld
DataVolumeUsage	Data tablespace usage	GB	Instanceld
DataVolumeAllocate	Allocated data tablespace capacity	GB	Instanceld
MaxConnections	Maximum number of connections	Times	Instanceld
UndoVolumeAllocate	Allocated undo tablespace capacity	GB	Instanceld
UndoVolumeUsage	Usage of the undo tablespace	GB	Instanceld
TmpVolumeAllocate	Allocated temporary tablespace capacity	GB	Instanceld
TmpVolumeUsage	Temporary tablespace usage	GB	Instanceld

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the period supported by each metric.

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
----------------	----------------	-----------------------	--------

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	Instanceld	Dimension name of the database instance ID	Enter a string-type dimension name, such as Instanceld
Instances.N.Dimensions.0.Value	Instanceld	A specific database instance ID	Enter a specific database instance ID, such as cynosdbmysql-ins-12ab34cd

## Input Parameters

To query the monitoring data of TencentDB for CynosDB, use the following input parameters:

&Namespace=QCE/CYNOSDB\_MYSQL

&Instances.N.Dimensions.0.Name=Instanceld

&Instances.N.Dimensions.0.Value=

# TencentDB for TcaplusDB Monitoring Metrics

Last updated : 2020-07-14 16:39:17

## Namespace

Namespace=QCE/TCAPLUS

## Monitoring Metrics

Parameter	Metric Name	Description	Unit	Dimension
Avgerror	Average error rate	Average error proportion of table operations	%	TableInstanceId and ClusterId
WriteLatency	Average write latency	Error proportion of common table operations	ms	TableInstanceId and ClusterId
Comerror	Common error rate	Actually read capacity units for tables	%	TableInstanceId and ClusterId
ReadLatency	Average read latency	Average data read latency	ms	TableInstanceId and ClusterId
Volume	Storage volume	System error proportion	KB	TableInstanceId and ClusterId
Syserror	System error rate	Storage capacity occupied by tables	%	TableInstanceId and ClusterId
Writecu	Actual write capacity units	Average write data latency	Units/sec	TableInstanceId and ClusterId
Readcu	Actual read capacity units	Actual write capacity units for tables	Units/sec	TableInstanceId and ClusterId

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the `period` supported by each metric.

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	TableInstanceId	Dimension name of the database instance ID	Enter a string-type dimension name, such as TableInstanceId
Instances.N.Dimensions.0.Value	TableInstanceId	A specific database instance ID	Enter a specific database instance ID, such as tcaplus-123abc456
Instances.N.Dimensions.1.Name	ClusterId	Dimension name of the cluster ID	Enter a string-type dimension name, such as clusterId
Instances.N.Dimensions.1.Value	ClusterId	A specific cluster ID	Enter a specific cluster ID, such as clus-12345

## Input Parameters

To query the monitoring data of TcaplusDB, use the following input parameters:

&Namespace=QCE/TCAPLUS

&Instances.N.Dimensions.0.Name=TableInstanceId

&Instances.N.Dimensions.0.Value=

&Instances.N.Dimensions.1.Name=ClusterId

&Instances.N.Dimensions.1.Value=

# TencentDB for TDSQL Monitoring Metrics

Last updated : 2020-07-14 16:39:17

## Namespace

Namespace=QCE/DCDB

## Monitoring Metrics

Parameter	Metric Name	Unit	Dimension
CpuUsageRate	CPU utilization	%	uuid and shardId
MemHitRate	Cache hit rate	%	uuid and shardId
DataDiskUsedRate	Disk space utilization	%	uuid and shardId
MemAvailable	Free cache space	GB	uuid and shardId
DataDiskAvailable	Free disk space	GB	uuid and shardId
BinlogUsedDisk	Used disk space for binlogs	GB	uuid and shardId
DiskIops	IO utilization	%	uuid and shardId
ConnActive	Total connections	Times/sec	uuid and shardId
ConnRunning	Active connections	Times/sec	uuid and shardId
TotalOrigSql	Total SQL statement executions	Times/sec	uuid and shardId
TotalErrorSql	Failed SQL statement executions	Times/sec	uuid and shardId
TotalSuccessSql	Successful SQL statement executions	Times/sec	uuid and shardId
LongQuery	Slow queries	Times/sec	uuid and shardId
TimeRange0	Requests consuming 1-5 ms	Times/sec	uuid and shardId
TimeRange1	Requests consuming 5-20 ms	Times/sec	uuid and shardId
TimeRange2	Requests consuming 20-30 ms	Times/sec	uuid and shardId
TimeRange3	Requests consuming over 30 ms	Times/sec	uuid and shardId
RequestTotal	Total requests (QPS)	Times/sec	uuid and shardId
SelectTotal	Queries	Times/sec	uuid and shardId
UpdateTotal	Updates	Times/sec	uuid and shardId
InsertTotal	Insertions	Times/sec	uuid and shardId
ReplaceTotal	Replacements	Times/sec	uuid and shardId
DeleteTotal	Deletions	Times/sec	uuid and shardId
MasterSwitchedTotal	Master/Slave switchovers	Times/sec	uuid and shardId
SlaveDelay	Master/Slave latency	ms	uuid and shardId
InnoDBBufferPoolReads	InnoDB disk reads	Times/sec	uuid and shardId
InnoDBBufferPoolReadRequests	InnoDB buffer pool reads	Times/sec	uuid and shardId
InnoDBBufferPoolReadAhead	InnoDB buffer pool pre-reads	Times/sec	uuid and shardId
InnoDBRowsDeleted	Deleted InnoDB rows	Times/sec	uuid and shardId

Parameter	Metric Name	Unit	Dimension
InnoDBRowsInserted	Inserted InnoDB rows	Times/sec	uuid and shardId
InnoDBRowsRead	Read InnoDB rows	Times/sec	uuid and shardId
InnoDBRowsUpdated	Updated InnoDB rows	Times/sec	uuid and shardId

The statistical granularity ( `period` ) for all metrics of distributed databases is either 60 or 300 seconds and varies by metric. The [DescribeBaseMetrics](#) API can be used to obtain the `period` supported by each metric.

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	uuid	Dimension name of the database instance uuid	Enter a string-type dimension name, such as uuid
Instances.N.Dimensions.0.Value	uuid	A specific instance uuid	Enter a specific instance uuid, such as dcdbt-0gfrgy60
Instances.N.Dimensions.1.Name	shardId	Dimension name of the instance shard ID. To query shard monitoring data, pass in this parameter. If this parameter is not passed in, the overall instance monitoring data will be queried instead	Enter a string-type dimension name, such as shardId
Instances.N.Dimensions.1.Value	shardId	A specific instance shard ID	Enter a specific instance shard ID, such as shard-0mzIzI89

## Input Parameters

To query the monitoring data of a TencentDB for TDSQL v3 instance, use the following input parameters:

&Namespace=QCE/DCDB

&Instances.N.Dimensions.0.Name=uuid

&Instances.N.Dimensions.0.Value=

# Tencent Kubernetes Engine (TKE)

## Monitoring Metrics at the Pod Dimension

Last updated : 2020-07-14 16:26:37

### Namespace

Namespace=QCE/DOCKER

### Monitoring Metrics

Metric Name	Parameter	Unit	Description	Dimension
Pod network inbound bandwidth	PodInBandwidth	Mbps	Containers in the same pod share the same network. This parameter indicates the network inbound bandwidth of the pod	clusterId, serviceName, namespace, and podName
Pod network outbound bandwidth	PodOutBandwidth	Mbps	Containers in the same pod share the same network. This parameter indicates the network outbound bandwidth of the pod	clusterId, serviceName, namespace, and podName
Pod network inbound traffic	PodInFlux	MB	Containers in the same pod share the same network. This parameter indicates the network inbound traffic of the pod	clusterId, serviceName, namespace, and podName
Pod network outbound traffic	PodOutFlux	MB	Containers in the same pod share the same network. This parameter indicates the network outbound traffic of the pod	clusterId, serviceName, namespace, and podName
Pod network inbound packets	PodInPackets	Packets/sec	Containers in the same pod share the same network. This parameter indicates the network inbound packets of the pod	clusterId, serviceName, namespace, and podName
Pod network outbound packets	PodOutPackets	Packets/sec	Containers in the same pod share the same network. This parameter indicates the network outbound packets of the pod	clusterId, serviceName, namespace, and podName

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the `period` supported by each metric.

### Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	clusterId	Dimension name of the cluster ID	Enter a string-type dimension name, such as clusterId
Instances.N.Dimensions.0.Value	clusterId	A specific cluster ID; that is, the clusterId field returned by the <a href="#">cluster list query</a> API	Enter a specific cluster ID, such as disk-test
Instances.N.Dimensions.1.Name	serviceName	Dimension name of the service	Enter a string-type dimension name, such as serviceName
Instances.N.Dimensions.1.Value	serviceName	A specific service name; that is, the serviceName field returned by the [service list query] API	Enter a specific service name, such as test
Instances.N.Dimensions.2.Name	namespace	Dimension name of the namespace	Enter a string-type dimension name, such as namespace

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.2.Value	namespace	A specific namespace name; that is, the namespace field returned by the [service list query] API	Enter a specific namespace name, such as default
Instances.N.Dimensions.3.Name	podName	Dimension name of the pod	Enter a string-type dimension name, such as podName
Instances.N.Dimensions.3.Value	podName	A specific pod name; that is, the name field returned by the [service instance list query] API	Enter a specific pod name, such as test-3488000495-nj6s9

## Input Parameters

To query the monitoring data of a TKE pod dimension, use the following input parameters:

&Namespace=QCE/DOCKER

&Instances.N.Dimensions.0.Name=clusterId

&Instances.N.Dimensions.0.Value=

&Instances.0.Dimensions.1.Name=namespace

&Instances.0.Dimensions.1.Value=

&Instances.0.Dimensions.2.Name=serviceName

&Instances.0.Dimensions.2.Value=

&Instances.0.Dimensions.3.Name=podName

&Instances.0.Dimensions.3.Value=



# Monitoring Metrics at the Container Dimension

Last updated : 2020-07-14 16:26:38

## Namespace

Namespace=QCE/DOCKER

## Monitoring Metrics

Metric Name	Parameter	Unit	Description	Dimension
Container CPU usage	ContainerCpuUsed	Core	Container CPU usage	clusterId, serviceName, namespace, podName, and containerId
Container CPU utilization (for the CVM)	ContainerCpuUsageForNode	%	Ratio of the container CPU usage to the CVM CPU configuration	clusterId, serviceName, namespace, podName, and containerId
Container CPU utilization (for Request)	ContainerCpuUsageForRequest	%	Ratio of the container CPU usage to the CPU configuration for Request	clusterId, serviceName, namespace, podName, and containerId
Container CPU utilization (for Limit)	ContainerCpuUsageForLimit	%	Ratio of the container CPU usage to the CPU configuration for Limit	clusterId, serviceName, namespace, podName, and containerId
Container memory usage	ContainerMemUsed	MiB	Container memory usage	clusterId, serviceName, namespace, podName, and containerId
Container memory utilization (for the CVM)	ContainerMemUsageForNode	%	Ratio of the container memory usage to the CVM memory configuration	clusterId, serviceName, namespace, podName, and containerId
Container memory utilization (for Request)	ContainerMemUsageForRequest	%	Ratio of the container memory usage to the memory configuration for Request	clusterId, serviceName, namespace, podName, and containerId

Metric Name	Parameter	Unit	Description	Dimension
Container memory utilization (for Limit)	ContainerMemUsageForLimit	%	Ratio of the container memory usage to the memory configuration for Limit	clusterId, serviceName, namespace, podName, and containerId
Container disk read traffic	ContainerDiskReadTraffic	KB/s	Disk read traffic for the container	clusterId, serviceName, namespace, podName, and containerId
Container disk write traffic	ContainerDiskWriteTraffic	KB/s	Disk write traffic for the container	clusterId, serviceName, namespace, podName, and containerId
Container disk read IOPS	ContainerDiskRead	Count	Disk read IOPS for the container	clusterId, serviceName, namespace, podName, and containerId
Container disk write IOPS	ContainerDiskWrite	Count	Disk write IOPS for the container	clusterId, serviceName, namespace, podName, and containerId

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the `period` supported by each metric.

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	clusterId	Dimension name of the cluster ID	Enter a string-type dimension name, such as clusterId
Instances.N.Dimensions.0.Value	clusterId	A specific cluster ID; that is, the clusterId field returned by the <a href="#">cluster list query</a> API	Enter a specific cluster ID, such as cls-xxxxx
Instances.N.Dimensions.1.Name	serviceName	Dimension name of the service	Enter a string-type dimension name, such as serviceName
Instances.N.Dimensions.1.Value	serviceName	A specific service name; that is, the serviceName field returned by the [service list query] API	Enter a specific service name, such as test

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.2.Name	namespace	Dimension name of the namespace	Enter a string-type dimension name, such as namespace
Instances.N.Dimensions.2.Value	namespace	A specific namespace name; that is, the namespace field returned by the [service list query] API	Enter a specific namespace name, such as default
Instances.N.Dimensions.3.Name	podName	Dimension name of the pod	Enter a string-type dimension name, such as podName
Instances.N.Dimensions.3.Value	podName	A specific pod name; that is, the name field returned by the [service instance list query] API	Enter a specific pod name, such as test-3488000495-nj6s9
Instances.N.Dimensions.4.Name	containerId	Dimension name of the container ID	Enter a string-type dimension name, such as containerId
Instances.N.Dimensions.4.Value	containerId	A specific container ID; that is, the containerId field returned by the [service instance list query] API. Note that it is sufficient to take the first 12 characters of the container ID for this parameter	Enter a specific container name, such as 01c5509d2b39

## Input Parameters

To query the monitoring data of a TKE container dimension, use the following input parameters:

```
&Namespace=QCE/DOCKER
&Instances.N.Dimensions.0.Name=clusterId
&Instances.N.Dimensions.0.Value=
&Instances.0.Dimensions.1.Name=namespace
&Instances.0.Dimensions.1.Value=
&Instances.0.Dimensions.2.Name=serviceName
&Instances.0.Dimensions.2.Value=
&Instances.0.Dimensions.3.Name=podName
&Instances.0.Dimensions.3.Value=
&Instances.0.Dimensions.4.Name=containerId
&Instances.0.Dimensions.4.Value=
```

# Monitoring Metrics at the Service Dimension

Last updated : 2020-07-14 16:26:38

## Namespace

Namespace=QCE/DOCKER

## Monitoring Metrics

Metric Name	Parameter	Unit	Description	Dimension
Service CPU utilization	ServiceCpuUsed	Core	Sum of the CPU usage of all container instances in a service	clusterId, serviceName, and namespace
Service CPU utilization (for the cluster)	ServiceCpuUsageForCluster	%	Ratio of the service CPU usage to the total cluster CPU configuration	clusterId, serviceName, and namespace
Service memory usage	ServiceMemUsed	MiB	Sum of the memory usage of all container instances in a service	clusterId, serviceName, and namespace
Service memory utilization (for the cluster)	ServiceMemUsageForCluster	%	Ratio of the service memory usage to the total cluster memory configuration	clusterId, serviceName, and namespace
Service network inbound traffic	ServiceInFlux	MB	Sum of the inbound traffic of all instances in a service in the time window	clusterId, serviceName, and namespace
Service network outbound traffic	ServiceOutFlux	MB	Sum of the outbound traffic of all instances in a service in the time window	clusterId, serviceName, and namespace
Service network inbound bandwidth	ServiceInBandwidth	Mbps	Sum of the inbound bandwidth of all instances in a service	clusterId, serviceName, and namespace
Service network outbound bandwidth	ServiceOutBandwidth	Mbps	Sum of the outbound bandwidth of all instances in a service	clusterId, serviceName, and namespace
Service network inbound packets	ServiceInPackets	Packets/sec	Sum of the inbound packets of all instances in a service	clusterId, serviceName, and namespace
Service network outbound packets	ServiceOutPackets	Packets/sec	Sum of the outbound packets of all instances in a service	clusterId, serviceName, and namespace

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the `period` supported by each metric.

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
----------------	----------------	-----------------------	--------

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	clusterId	Dimension name of the cluster ID	Enter a string-type dimension name, such as clusterId
Instances.N.Dimensions.0.Value	clusterId	A specific cluster ID, namely the clusterId field returned by the <a href="#">cluster list query</a> API	Enter a specific cluster ID, such as cls-xxxxx
Instances.N.Dimensions.1.Name	serviceName	Service name	Enter a string-type dimension name, such as serviceName
Instances.N.Dimensions.1.Value	serviceName	A specific service name, namely the serviceName field returned by the <a href="#">service list query</a> API	Enter a specific service name, such as test
Instances.N.Dimensions.2.Name	namespace	Dimension name of the namespace	Enter a string-type dimension name, such as namespace
Instances.N.Dimensions.2.Value	namespace	A specific namespace name, namely the namespace field returned by the <a href="#">service list query</a> API	Enter a specific namespace name, such as default

## Input Parameters

To query the monitoring data of the TKE service dimension, use the following input parameters:

&Namespace=QCE/DOCKER

&Instances.N.Dimensions.0.Name=clusterId

&Instances.N.Dimensions.0.Value=

&Instances.0.Dimensions.1.Name=namespace

&Instances.0.Dimensions.1.Value=

&Instances.0.Dimensions.2.Name=serviceName

&Instances.0.Dimensions.2.Value=

# Cloud Load Balancer (CLB)

## Public Network CLB Monitoring Metrics

Last updated : 2020-07-14 16:26:39

### Namespace

Namespace=QCE/LB\_PUBLIC

### Monitoring Metrics

Parameter	Metric Name	Unit
Connum	Connections	Count
NewConn	New connections	Connections/sec
Intraffic	Public inbound bandwidth	Mbps
Outtraffic	Public outbound bandwidth	Mbps
Inpkg	Inbound packets	Packets/sec
Outpkg	Outbound packets	Packets/sec

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the `period` supported by each metric.

### Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.name	vip	Dimension name of the CLB VIP	Enter a string-type dimension name, such as vip
Instances.N.Dimensions.0.value	vip	A specific CLB VIP	Enter a specific IP address, such as 111.111.111.11
Instances.N.Dimensions.1.name	loadBalancerPort	Dimension name of the CLB instance port	Enter a string-type dimension name, such as loadBalancerPort
Instances.N.Dimensions.1.value	loadBalancerPort	A specific CLB port	Enter a specific port number, such as 80
Instances.N.Dimensions.2.name	protocol	Dimension name of the protocol	Enter a string-type dimension name, such as protocol
Instances.N.Dimensions.2.value	protocol	A specific protocol	Enter a specific protocol name, such as http
Instances.N.Dimensions.3.name	vpclId	Dimension name of the VPC ID	Enter a string-type dimension name, such as vpclId
Instances.N.Dimensions.3.value	vpclId	A specific VPC ID (of the CLB instance)	Enter a specific VPC ID, such as 1111. We recommend that you enter a numeric vpclId. For information on obtaining the numeric vpclId, see <a href="#">DescribeLoadBalancerListByCertId</a>
Instances.N.Dimensions.4.name	lanIp	Dimension name of the lanIp	Enter a string-type dimension name, such as lanIp

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.4.value	lanIp	A specific IP address of the real server bound to the CLB instance	Enter a specific IP address, such as 111.222.111.22
Instances.N.Dimensions.5.name	port	Dimension name of the port number	Enter a string-type dimension name, such as port
Instances.N.Dimensions.5.value	port	A specific port number of the real server bound to the CLB instance	Enter a specific port number, such as 80

## Input Parameters

Public network CLB instances support the combinations of the following four dimensions for querying monitoring data. The values for the four types of input parameters are as follows:

### 1. Values of the input parameters at the public network CLB instance dimension

```
&Namespace: QCE/LB_PUBLIC
&Instances.N.Dimensions.0.Name=vip
&Instances.N.Dimensions.0.Value=
```

### 2. Values of the input parameters at the public network CLB instance port dimension

```
&Namespace: QCE/LB_PUBLIC
&Instances.N.Dimensions.0.Name=vip
&Instances.N.Dimensions.0.Value=
&Instances.N.Dimensions.1.Name=loadBalancerPort
&Instances.N.Dimensions.1.Value=
&Instances.N.Dimensions.2.Name=protocol
&Instances.N.Dimensions.2.Value=
```

### 3 Values of the input parameters at the public network CLB real server dimension

```
&Namespace: QCE/LB_PUBLIC
&Instances.N.Dimensions.0.Name=vip
&Instances.N.Dimensions.0.Value=
&Instances.N.Dimensions.1.Name=loadBalancerPort
&Instances.N.Dimensions.1.Value=
&Instances.N.Dimensions.2.Name=protocol
&Instances.N.Dimensions.2.Value=
&Instances.N.Dimensions.3.Name=vpclId
&Instances.N.Dimensions.3.Value=
&Instances.N.Dimensions.4.Name=lanIp
&Instances.N.Dimensions.4.Value=
```

### 4. Values of the input parameters at the public network CLB real server port dimension

```
&Namespace: QCE/LB_PUBLIC
&Instances.N.Dimensions.0.Name=vip
&Instances.N.Dimensions.0.Value=
&Instances.N.Dimensions.1.Name=loadBalancerPort
&Instances.N.Dimensions.1.Value=
&Instances.N.Dimensions.2.Name=protocol
&Instances.N.Dimensions.2.Value=
&Instances.N.Dimensions.3.Name=vpclId
&Instances.N.Dimensions.3.Value=
&Instances.N.Dimensions.4.Name=lanIp
&Instances.N.Dimensions.4.Value=
```

&Instances.N.Dimensions.5.Name=port  
&Instances.N.Dimensions.5.Value=

## CLB Layer-7 Data Monitoring Metrics

Last updated : 2020-07-14 16:26:39

Namespace



Namespace: QCE/LOADBALANCE

## Monitoring Metrics

Parameter	Metric Name	Unit
Connum	Current (active) connections	Connections/min
NewConn	New connections	Connections/min
Intraffic	Inbound traffic	Mbps
Outtraffic	Outbound traffic	Mbps
Inpkg	Inbound packets	Packets/sec
Outpkg	Outbound packets	Packets/sec
HttpCode2XX	2xx status codes	Codes/min
HttpCode3XX	3xx status codes	Codes/min
HttpCode4XX	4xx status codes	Codes/min
HttpCode5XX	5xx status codes	Codes/min
HttpCode404	404 status codes	Codes/min
HttpCode502	502 status codes	Codes/min
ResponseTimeMax	Maximum response time	ms
ResponseTimeAverage	Average response time	ms
ResponseTimeoutNum	Timed-out responses	Responses/min
QPS	Queries per second	Count

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the `period` supported by each metric.

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.name	vip	Dimension name of the CLB VIP	Enter a string-type dimension name, such as vip
Instances.N.Dimensions.0.value	vip	A specific CLB VIP	Enter a specific IP address, such as 111.111.111.11
Instances.N.Dimensions.1.name	loadBalancerPort	Dimension name of the CLB port	Enter a string-type dimension name, such as loadBalancerPort
Instances.N.Dimensions.1.value	loadBalancerPort	A specific CLB port	Enter a specific port number, such as 80
Instances.N.Dimensions.2.name	protocol	Dimension name of the protocol	Enter a string-type dimension name, such as protocol
Instances.N.Dimensions.2.value	protocol	A specific protocol name	Enter a specific protocol name, such as http
Instances.N.Dimensions.3.name	vpclId	Dimension name of the VPC ID	Enter a string-type dimension name, such as vpclId

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.3.value	vpclid	A specific VPC ID (of the CLB instance)	Enter a specific VPC ID, such as 1111. We recommend that you enter a numeric vpclid. For information on obtaining the numeric vpclid, see <a href="#">DescribeLoadBalancerListByCertId</a>
Instances.N.Dimensions.4.name	lanIp	Dimension name of the lanIp	Enter a string-type dimension name, such as lanIp
Instances.N.Dimensions.4.value	lanIp	A specific IP address of the real server bound to the CLB instance	Enter a specific IP address, such as 111.222.111.22
Instances.N.Dimensions.5.name	port	Dimension name of the port number	Enter a string-type dimension name, such as port
Instances.N.Dimensions.5.value	port	A specific port number of the real server bound to the CLB instance	Enter a specific port number, such as 80
Instances.N.Dimensions.6.name	domain	Dimension name of the domain	Enter a string-type dimension name, such as domain
Instances.N.Dimensions.6.value	domain	A specific domain name	Enter a specific domain name, such as www.cloud.tencent.com
Instances.N.Dimensions.7.name	url	Dimension name of the URL	Enter a string-type dimension name, such as url
Instances.N.Dimensions.7.value	url	A specific URL	Enter a specific URL, such as /aaa

## Input Parameters

CLB layer-7 data supports the combinations of the following four dimensions for querying monitoring data. The values for the four types of input parameters are as follows:

### 1. Values of the input parameters at the CLB instance dimension

```
&Namespace: QCE/LOADBALANCE
&Instances.N.Dimensions.0.Name=vip
&Instances.N.Dimensions.0.Value=
```

### 2. Values of the input parameters at the CLB instance port dimension

```
&Namespace: QCE/LOADBALANCE
&Instances.N.Dimensions.0.Name=vip
&Instances.N.Dimensions.0.Value=
&Instances.N.Dimensions.1.Name=loadBalancerPort
&Instances.N.Dimensions.1.Value=
&Instances.N.Dimensions.2.Name=protocol
&Instances.N.Dimensions.2.Value=
```

### 3. Values of the input parameters at the single-CLB-instance domain name dimension

```
&Namespace: QCE/LOADBALANCE
&Instances.N.Dimensions.0.Name=vip
&Instances.N.Dimensions.0.Value=
&Instances.N.Dimensions.1.Name=loadBalancerPort
&Instances.N.Dimensions.1.Value=
&Instances.N.Dimensions.2.Name=protocol
&Instances.N.Dimensions.2.Value=
&Instances.N.Dimensions.3.Name=domain
&Instances.N.Dimensions.3.Value=
```

#### 4. Values of the input parameters at the single-CLB-instance URL dimension

```
&Namespace: QCE/LOADBALANCE
&Instances.N.Dimensions.0.Name=vip
&Instances.N.Dimensions.0.Value=
&Instances.N.Dimensions.1.Name=loadBalancerPort
&Instances.N.Dimensions.1.Value=
&Instances.N.Dimensions.2.Name=protocol
&Instances.N.Dimensions.2.Value=
&Instances.N.Dimensions.3.Name=domain
&Instances.N.Dimensions.3.Value=
&Instances.N.Dimensions.4.Name=url
&Instances.N.Dimensions.4.Value=
```

#### 5. Values of the input parameters at the all-CLB-instances domain name dimension (if one domain name is shared by multiple VIPs, the monitoring data will be aggregated.) The values of the input parameters are as follows:

```
&Namespace: QCE/LOADBALANCE
&Instances.N.Dimensions.1.Name=loadBalancerPort
&Instances.N.Dimensions.1.Value=
&Instances.N.Dimensions.2.Name=protocol
&Instances.N.Dimensions.2.Value=
&Instances.N.Dimensions.3.Name=domain
&Instances.N.Dimensions.3.Value=
```

#### 6. Values of the input parameters at the CLB real server dimension

```
&Namespace: QCE/LOADBALANCE
&Instances.N.Dimensions.0.Name=vip
&Instances.N.Dimensions.0.Value=
&Instances.N.Dimensions.1.Name=loadBalancerPort
&Instances.N.Dimensions.1.Value=
&Instances.N.Dimensions.2.Name=protocol
&Instances.N.Dimensions.2.Value=
&Instances.N.Dimensions.3.Name=vpclId
&Instances.N.Dimensions.3.Value=
&Instances.N.Dimensions.4.Name=domain
&Instances.N.Dimensions.4.Value=
&Instances.N.Dimensions.5.Name=url
&Instances.N.Dimensions.5.Value=
&Instances.N.Dimensions.6.Name=lanIp
&Instances.N.Dimensions.6.Value=
```

#### 7. Values of the input parameters at the CLB real server port dimension

```
&Namespace: QCE/LOADBALANCE
&Instances.N.Dimensions.0.Name=vip
&Instances.N.Dimensions.0.Value=
&Instances.N.Dimensions.1.Name=loadBalancerPort
&Instances.N.Dimensions.1.Value=
&Instances.N.Dimensions.2.Name=protocol
&Instances.N.Dimensions.2.Value=
&Instances.N.Dimensions.3.Name=vpclId
&Instances.N.Dimensions.3.Value=
&Instances.N.Dimensions.4.Name=domain
&Instances.N.Dimensions.4.Value=
&Instances.N.Dimensions.5.Name=url
&Instances.N.Dimensions.5.Value=
&Instances.N.Dimensions.6.Name=lanIp
&Instances.N.Dimensions.6.Value=
&Instances.N.Dimensions.7.Name=port
&Instances.N.Dimensions.7.Value=
```

# Private Network CLB Monitoring Metrics (at the Real Server Dimension)

Last updated : 2020-07-14 16:26:40

## Namespace

Namespace=QCE/LB\_RS\_PRIVATE

## Monitoring Metrics

Parameter	Metric Name	Unit
Connum	Current connections	Count
NewConn	New connections	Connections/sec
Intraffic	Inbound traffic	Mbps
Outtraffic	Outbound traffic	Mbps
Inpkg	Inbound packets	Packets/sec
Outpkg	Outbound packets	Packets/sec

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the `period` supported by each metric.

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	vip	Dimension name of the CLB VIP	Enter a string-type dimension name, such as vip
Instances.N.Dimensions.0.Value	vip	A specific CLB VIP	Enter a specific IP address, such as 111.111.111.11
Instances.N.Dimensions.1.Name	vpclid	Dimension name of the VPC ID	Enter a string-type dimension name, such as vpclid
Instances.N.Dimensions.1.Value	vpclid	A specific VPC ID (of the CLB instance)	Enter a specific VPC ID, such as 1111. We recommend that you enter a numeric vpclid. For information on obtaining the numeric vpclid, see <a href="#">DescribeLoadBalancerListByCertId</a>
Instances.N.Dimensions.2.Name	loadBalancerPort	Dimension name of the CLB port	Enter a string-type dimension name, such as loadBalancerPort
Instances.N.Dimensions.2.Value	loadBalancerPort	A specific CLB port	Enter a specific port number, such as 80
Instances.N.Dimensions.3.Name	protocol	Dimension name of the protocol	Enter a string-type dimension name, such as protocol
Instances.N.Dimensions.3.Value	protocol	A specific protocol	Enter a specific protocol name, such as http
Instances.N.Dimensions.4.Name	lanIp	Dimension name of the lanIp	Enter a string-type dimension name, such as lanIp

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.4.Value	lanIp	A specific IP address of the real server bound to the CLB instance	Enter a specific IP address, such as 111.111.111.11
Instances.N.Dimensions.5.Name	port	Dimension name of the port number	Enter a string-type dimension name, such as port
Instances.N.Dimensions.5.Value	port	A specific port number of the real server bound to the CLB instance	Enter a specific port number, such as 80

## Input Parameters

Private network CLB instances (at the real server dimension) support the combination of the following two dimensions for querying monitoring data. The values for the two types of input parameters are as follows:

### 1. Values of the input parameters at the private network CLB real server dimension

Since the private vip may be repeated, vpclId is also required to uniquely specify a CLB instance:

```
&Namespace= QCE/LB_RS_PRIVATE
&Instances.N.Dimensions.0.Name=vip
&Instances.N.Dimensions.0.Value=
&Instances.N.Dimensions.1.Name=vpclId
&Instances.N.Dimensions.1.Value=
&Instances.N.Dimensions.2.Name=loadBalancerPort
&Instances.N.Dimensions.2.Value=
&Instances.N.Dimensions.3.Name=protocol
&Instances.N.Dimensions.3.Value=
&Instances.N.Dimensions.4.Name=lanIp
&Instances.N.Dimensions.4.Value=
```

### 2. Values of the input parameters at the private network CLB real server port dimension

Since the private vip may be repeated, vpclId is also required to uniquely specify a CLB instance:

```
&Namespace= QCE/LB_RS_PRIVATE
&Instances.N.Dimensions.0.Name=vip
&Instances.N.Dimensions.0.Value=
&Instances.N.Dimensions.1.Name=vpclId
&Instances.N.Dimensions.1.Value=
&Instances.N.Dimensions.2.Name=loadBalancerPort
&Instances.N.Dimensions.2.Value=
&Instances.N.Dimensions.3.Name=protocol
&Instances.N.Dimensions.3.Value=
&Instances.N.Dimensions.4.Name=lanIp
&Instances.N.Dimensions.4.Value=
&Instances.N.Dimensions.5.Name=port
&Instances.N.Dimensions.5.Value=
```

# Private Network CLB Monitoring Metrics (at the CLB Dimension)

Last updated : 2020-07-14 16:26:40

## Namespace

Namespace=QCE/LB\_PRIVATE

## Monitoring Metrics

Parameter	Metric Name	Unit
Connum	Current connections	Count
NewConn	New connections	Connections/sec
Intraffic	Inbound traffic	Mbps
Outtraffic	Outbound traffic	Mbps
Inpkg	Inbound packets	Packets/sec
Outpkg	Outbound packets	Packets/sec

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the `period` supported by each metric.

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.name	vip	Dimension name of the CLB VIP	Enter a string-type dimension name, such as vip
Instances.N.Dimensions.0.value	vip	A specific CLB VIP	Enter a specific IP address, such as 111.111.111.11
Instances.N.Dimensions.1.name	vpclId	Dimension name of the VPC ID	Enter a string-type dimension name, such as vpclId
Instances.N.Dimensions.1.value	vpclId	A specific VPC ID (of the CLB instance)	Enter a specific VPC ID, such as 1012345. We recommend that you enter a numeric vpclId. For information on obtaining the numeric vpclId, see <a href="#">DescribeLoadBalancerListByCertId</a>
Instances.N.Dimensions.2.name	loadBalancerPort	Dimension name of the CLB instance port	Enter a string-type dimension name, such as loadBalancerPort
Instances.N.Dimensions.2.value	loadBalancerPort	A specific CLB port number	Enter a specific port number, such as 80
Instances.N.Dimensions.3.name	protocol	Dimension name of the protocol	Enter a string-type dimension name, such as protocol
Instances.N.Dimensions.3.value	protocol	A specific protocol	Enter a specific protocol name, such as http

## Input Parameters

Private network CLB instances support the combination of the following two dimensions for querying monitoring data. The values for the two types of input parameters are as follows:

### 1. Values of the input parameters at the private network CLB instance dimension

```
&Namespace=QCE/LB_PRIVATE
&Instances.N.Dimensions.0.Name=vip
&Instances.N.Dimensions.0.Value=
&Instances.N.Dimensions.1.Name=vpclId
&Instances.N.Dimensions.1.Value=
```

### 2. Values of the input parameters at the private network CLB instance port dimension

```
&Namespace=QCE/LB_PRIVATE
&Instances.N.Dimensions.0.Name=vip
&Instances.N.Dimensions.0.Value=
&Instances.N.Dimensions.1.Name=vpclId
&Instances.N.Dimensions.1.Value=
&Instances.N.Dimensions.2.Name=loadBalancerPort
&Instances.N.Dimensions.2.Value=
&Instances.N.Dimensions.3.Name=protocol
&Instances.N.Dimensions.3.Value=
```

# Virtual Private Cloud (VPC) NAT Gateway Monitoring Metrics

Last updated : 2020-07-14 16:26:41

## Namespace

Namespace=QCE/NAT\_GATEWAY

## Monitoring Metrics

Metric Name	Description	Unit	Dimension
Outbandwidth	Public network outbound bandwidth	Mbps	natId
Inbandwidth	Public network inbound bandwidth	Mbps	natId
Outpkg	Outbound packets	Packets/sec	natId
Inpkg	Inbound packets	Packets/sec	natId
Conns	Connections	Connections/sec	natId

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the period supported by each metric.

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	natId	Dimension name of the NAT gateway ID	Enter a string-type natId dimension name
Instances.N.Dimensions.0.Value	natId	A specific NAT gateway ID	Enter a specific <code>natId</code> , such as nat-4d545d

## Input Parameters

To query the monitoring data of a NAT gateway in a VPC instance, use the following input parameters:

&Namespace=QCE/NAT\_GATEWAY

&Instances.N.Dimensions.0.Name=natId

&Instances.N.Dimensions.0.Value=



## VPN Gateway Monitoring Metrics

Last updated : 2020-07-14 16:26:41

### Namespace

Namespace=QCE/VPNGW

### Monitoring Metrics

Metric Name	Description	Unit	Dimension
Outbandwidth	Public network outbound bandwidth	Mbps	vpnGwId
Inbandwidth	Public network inbound bandwidth	Mbps	vpnGwId
Outpkg	Outbound packets	Packets/sec	vpnGwId
Inpkg	Inbound packets	Packets/sec	vpnGwId

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the period supported by each metric.

### Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	vpnGwId	Dimension name of the VPN gateway ID	Enter a string-type vpnGwId dimension name
Instances.N.Dimensions.0.Value	vpnGwId	A specific VPN gateway ID	Enter a specific VPN gateway ID, such as vpngw-q7v069tf

### Input Parameters

To query the monitoring data of a VPN gateway in a VPC instance, use the following input parameters:

&Namespace=QCE/VPNGW

&Instances.N.Dimensions.0.Name=vpnGwId

&Instances.N.Dimensions.0.Value=

## VPN Tunnel Monitoring Metrics

Last updated : 2020-07-14 16:26:42

### Namespace

Namespace=QCE/VPNX

### Monitoring Metrics

Metric Name	Description	Unit	Dimension
Outbandwidth	Public network outbound bandwidth	Mbps	vpnConnId
Inbandwidth	Public network inbound bandwidth	Mbps	vpnConnId
Outpkg	Outbound packets	Packets/sec	vpnConnId
Inpkg	Inbound packets	Packets/sec	vpnConnId
Pkgdrop	Packet loss rate	%	vpnConnId
Delay	Latency	Seconds	vpnConnId

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the period supported by each metric.

### Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	vpnConnId	Dimension name of the VPN tunnel ID	Enter a string-type vpnConnId dimension name
Instances.N.Dimensions.0.Value	vpnConnId	A specific VPN tunnel ID	Enter a specific VPN connection ID, such as vpnx-12345678

### Input Parameters

To query the monitoring data of a VPN tunnel in a VPC instance, use the following input parameters:

&Namespace=QCE/VPNX

&Instances.N.Dimensions.0.Name=vpnConnId

&Instances.N.Dimensions.0.Value=

# Direct Connect Gateway Monitoring Metrics

Last updated : 2020-07-14 16:26:42

## Namespace

Namespace=QCE/DCG

## Monitoring Metrics

Metric Name	Description	Unit	Dimension
Outbandwidth	Public network outbound bandwidth	Mbps	directConnectGatewayId
Inbandwidth	Public network inbound bandwidth	Mbps	directConnectGatewayId
Outpkg	Outbound packets	Packets/sec	directConnectGatewayId
Inpkg	Inbound packets	Packets/sec	directConnectGatewayId

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the period supported by each metric.

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	directConnectGatewayId	Dimension name of the direct connect gateway ID	Enter a string-type directConnectGatewayId dimension name
Instances.N.Dimensions.0.Value	directConnectGatewayId	A specific ID of the direct connect gateway	Enter a specific direct connect gateway ID, such as dcg-4d545d

## Input Parameters

To query the monitoring data of a direct connect gateway in a VPC instance, use the following input parameters:

&Namespace=QCE/DCG

&Instances.N.Dimensions.0.Name=directConnectGatewayId

&Instances.N.Dimensions.0.Value=

# CCN Monitoring Metrics

Last updated : 2020-07-14 16:26:43

## Namespace

Namespace=QCE/VBC

## Monitoring Metrics

### Single-region metrics

Metric Name	Description	Unit	Dimension
RegionOutPkg	Single-region outbound packets	Packets/sec	CcnId
RegionInPkg	Single-region inbound packets	Packets/sec	CcnId
RegionOutBandwidth	Single-region outbound bandwidth	Mbps	CcnId
RegionInBandwidth	Single-region inbound bandwidth	Mbps	CcnId

### Cross-region metrics

Metric Name	Description	Unit	Dimension
OutPkg	Cross-region outbound packets	Packets/sec	CcnId, SRegion, and DRegion
InPkg	Cross-region inbound packets	Packets/sec	CcnId, SRegion, and DRegion
OutBandwidth	Cross-region outbound bandwidth	Mbps	CcnId, SRegion, and DRegion
InBandwidth	Cross-region inbound bandwidth	Mbps	CcnId, SRegion, and DRegion

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the period supported by each metric.

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	CcnId	Dimension name of the CCN instance ID	Enter a string-type CcnId dimension name
Instances.N.Dimensions.0.Value	CcnId	A specific CCN ID	Enter a specific CCN ID, such as <code>ccn-12345adc</code>
Instances.N.Dimensions.0.Name	SRegion	Dimension name of the source region	Enter a string-type SRegion dimension name
Instances.N.Dimensions.0.Value	SRegion	A specific source region	Enter a specific source region, such as <code>ap-shanghai</code>
Instances.N.Dimensions.0.Name	DRegion	Dimension name of the destination region	Enter a string-type DRegion dimension name
Instances.N.Dimensions.0.Value	DRegion	A specific destination region	Enter a specific destination region, such as <code>ap-guangzhou</code>

## Input Parameters

To query the monitoring data of a CCN instance in a VPC instance, use the following input parameters:

`&Namespace=QCE/VBC`

`&Instances.N.Dimensions.0.Name=CcnId`

`&Instances.N.Dimensions.0.Value=ccn-c889docn`

## Peering Connection Monitoring Metrics

Last updated : 2020-07-14 16:26:43

## Namespace

Namespace=QCE/PCX

## Monitoring Metrics

Metric Name	Description	Unit	Dimension
Inpkg	Inbound packets	Packets/second	peeringConnectionId
Inbandwidth	Inbound bandwidth	Mbps	peeringConnectionId
Outpkg	Outbound packets	Packets/second	peeringConnectionId
Outbandwidth	Outbound bandwidth	Mbps	peeringConnectionId
Pkgdrop	Packet loss rate	%	peeringConnectionId

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the period supported by each metric.

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	peeringConnectionId	Dimension name of the peering connection ID	Enter a string-type peeringConnectionId dimension name
Instances.N.Dimensions.0.Value	peeringConnectionId	A specific peering connection ID	Enter a specific peering connection ID, such as pcx-086ypwc8

## Input Parameters

To query the monitoring data of a peering connection in a VPC instance, use the following input parameters:

&Namespace=QCE/PCX

&Instances.N.Dimensions.0.Name=peeringConnectionId

&Instances.N.Dimensions.0.Value=

# Bandwidth Packet Monitoring Metrics

Last updated : 2020-07-14 16:26:44

## Namespace

Namespace=QCE/BWP

## Monitoring Metrics

Metric Name	Description	Unit	Dimension
OutTraffic	Public network outbound bandwidth	Mbps	bandwidthPackageId
InTraffic	Public network inbound bandwidth	Mbps	bandwidthPackageId
Outpkg	Outbound packets	Packets/sec	bandwidthPackageId
Inpkg	Inbound packets	Packets/sec	bandwidthPackageId

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the period supported by each metric.

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	bandwidthPackageId	Dimension name of the bandwidth package ID	Enter a string-type bandwidthPackageId dimension name
Instances.N.Dimensions.0.Value	bandwidthPackageId	A specific bandwidth package ID	Enter a specific bandwidth package ID, such as pdcg-4d545d

## Input Parameters

To query the monitoring data of a bandwidth package in a VPC instance, use the following input parameters:

&Namespace=QCE/BWP

&Instances.N.Dimensions.0.Name=bandwidthPackageId

&Instances.N.Dimensions.0.Value=

## EIP Monitoring Metrics

Last updated : 2020-07-14 16:26:44

### Namespace

Namespace=QCE/LB

### Monitoring Metrics

Metric Name	Description	Unit	Dimension
VipOuttraffic	Public network outbound bandwidth	Mbps	EIP
VipIntraffic	Public network inbound bandwidth	Mbps	EIP
VipOutpkg	Outbound packets	Packets/sec	EIP
VipInpkg	Inbound packets	Packets/sec	EIP

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the period supported by each metric.

### Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	eip	EIP dimension name	Enter a string-type eip dimension name
Instances.N.Dimensions.0.Value	eip	A specific EIP	Enter a specific EIP, such as 111.111.111.11

### Input Parameters

To query the monitoring data of an EIP in a VPC instance, use the following input parameters:

&Namespace=QCE/LB

&Instances.N.Dimensions.0.Name=eip

&Instances.N.Dimensions.0.Value=



# Global Application Acceleration Platform (GAAP)

## GAAP Origin Server Health Monitoring Metrics

Last updated : 2020-07-14 16:26:45

### Namespace

Namespace=QCE/QAAP

### Monitoring Metrics

Parameter	Metric Name	Description	Unit	Dimension
ListenerRsStatus	Status of the origin server under the listener	Health of the origin server under the listener (0: unhealthy, 1: healthy)	N/A	channelId, listenerId, and originServerInfo

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the period supported by each metric.

### Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	channelId	Dimension name of the acceleration connection ID	Enter a string-type dimension name, such as channelId
Instances.N.Dimensions.0.Value	channelId	A specific acceleration connection ID	Enter a specific acceleration connection ID, such as link-abcd1234
Instances.N.Dimensions.1.Name	listenerId	Dimension name of the listener ID	Enter a string-type dimension name, such as listenerId
Instances.N.Dimensions.1.Value	listenerId	A specific listener ID	Enter a specific listener ID, such as listener-1234abcd
Instances.N.Dimensions.2.Name	originServerInfo	Dimension name of the origin server information	Enter a string-type dimension name, such as originServerInfo
Instances.N.Dimensions.2.Value	originServerInfo	IP address or domain name of the origin server	Enter the IP address or domain name of the origin server, such as www.cloud.tencent.com

### Input Parameters

To query the health monitoring data of a GAAP origin server, use the following input parameters:

```
&Namespace=QCE/QAAP
&Instances.N.Dimensions.0.Name=channelId
&Instances.N.Dimensions.0.Value=
```

# GAAP Channel Load Monitoring Metrics

Last updated : 2020-07-14 16:26:46

## Namespace

Namespace=QCE/QAAP

## Monitoring Metrics

Metric	Description	Unit	Dimension
Connnum	Concurrent connections	Count	channelId
Inbandwidth	Inbound bandwidth	Mbps	channelId
Outbandwidth	Outbound bandwidth	Mbps	channelId
InPackets	Inbound packets	Packets/sec	channelId
OutPackets	Outbound packets	Packets/sec	channelId
PacketLoss	Packet loss rate	%	channelId
Latency	Latency	ms	channelId

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the period supported by each metric.

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	channelId	Dimension name of the acceleration connection ID	Enter a string-type dimension name, such as channelId
Instances.N.Dimensions.0.Value	channelId	A specific acceleration connection ID	Enter a specific acceleration connection ID, such as link-abcd1234

## Input Parameters

To query the load monitoring data of a GAAP connection, use the following input parameters:

&Namespace=QCE/QAAP

&Instances.N.Dimensions.0.Name=channelId

&Instances.N.Dimensions.0.Value=

# Cloud Message Queue (CMQ)

## Topic Subscription Monitoring Metrics

Last updated : 2020-07-14 16:26:46

### Namespace

Namespace=QCE/CMQTOPIC

### Monitoring Metrics

Metric	Description	Unit	Dimension
NumOfMsgPublished	Number of published messages	Count	topicId
NumOfMsgBatchPublished	Number of messages published in batches	Count	topicId
CountOfMsgPublished	Number of requests for published messages	Count	topicId
CountOfMsgBatchPublished	Number of requests for messages published in batches	Count	topicId
PublishSize	Size of published messages	MB	topicId
BatchPublishSize	Size of messages published in batches	MB	topicId
MsgHeapNum	Number of stored messages	Count	topicId
LanOuttraffic	Outbound traffic of private network requests	MB	topicId
WanOuttraffic	Outbound traffic of public network requests	MB	topicId
NumOfNotify	Total number of published messages	Count	topicId and subscriptionId
NumOfSuccNotify	Total number of messages published successfully	Count	topicId and subscriptionId

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the `period` supported by each metric.

### Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	topicId	Dimension name of the CMQ topic ID	Enter a string-type dimension name, such as topicId
Instances.N.Dimensions.0.Value	topicId	A specific CMQ topic ID	Enter a specific topic ID, such as topic-i4p4k0u0
Instances.N.Dimensions.1.Name	subscriptionId	Dimension name of the CMQ subscription ID	Enter a string-type dimension name, such as subscriptionId
Instances.N.Dimensions.1.Value	subscriptionId	A specific CMQ subscription ID. This field is required if the dimensions corresponding to the metric are <code>topicId</code> and <code>subscriptionId</code>	Enter a specific <code>subscriptionId</code> , such as test1

### Input Parameters

To query the subscription monitoring data of a CMQ topic, use the following input parameters:

&Namespace= QCE/CMQTOPIC

&Instances.N.Dimensions.0.Name=topicId

&Instances.N.Dimensions.0.Value=

## Queue Service Monitoring Metrics

Last updated : 2020-07-14 16:26:47

## Namespace

Namespace=QCE/CMQ

## Monitoring Metrics

Parameter	Metric Name	Description	Unit	Dimension
InvisibleMsgNum	Invisible messages in the queue	Number of invisible messages in the queue	Count	queueId and queueName
VisibleMsgNum	Visible messages in the queue	Number of visible messages in the queue	Count	queueId and queueName
SendMsgReqCount	Requests for sending messages	Number of requests for sending messages that a producer sends to the queue	Count	queueId and queueName
SendMsgNum	Sent messages	Number of messages that a producer sends to the queue	Count	queueId and queueName
RecvMsgReqCount	Requests for receiving messages	Number of requests for pulling messages that a consumer sends to the queue	Count	queueId and queueName
RecvMsgNum	Received messages	Number of messages that a consumer pulls from the queue	Count	queueId and queueName
RecvNullMsgNum	Received empty messages	Number of empty messages that a consumer pulls from the queue	Count	queueId and queueName
BatchRecvNullMsgNum	Empty messages received in batches	Number of empty messages that a consumer pulls from the queue in batches	Count	queueId and queueName
DelMsgReqCount	Requests for deleting messages	Number of requests for deleting messages that a consumer sends to the queue	Count	queueId and queueName
DelMsgNum	Deleted messages	Number of deleted messages	Count	queueId and queueName
SendMsgSize	Size of the messages sent	Size of the messages that a producer sends to the queue	MB	queueId and queueName
BatchSendMsgSize	Size of the messages sent in batches	Total size of the messages that a producer sends to the queue in batches	MB	queueId and queueName
BatchSendMsgReqCount	Requests for sending messages in batches	Number of requests for sending messages in batches that a producer sends to the queue	Count	queueId and queueName
BatchRecvMsgReqCount	Requests for receiving messages in batches	Number of requests for pulling messages in batches that a consumer sends to the queue	Count	queueId and queueName
BatchDelMsgReqCount	Requests for deleting messages in batches	Number of requests for deleting messages in batches	Count	queueId and queueName
MsgHeapNum	Heaped messages	Number of messages stored in the queue	Count	queueId and queueName
LanOuttraffic	Outbound traffic of private network requests	Outbound traffic of private network requests	MB	queueId and queueName
WanOuttraffic	Outbound traffic of public network requests	Outbound traffic of public network requests	MB	queueId and queueName

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the `period` supported by each metric.

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	queueId	Dimension name of the CMQ queue ID	Enter a string-type dimension name, such as queueId
Instances.N.Dimensions.0.Value	queueId	A specific CMQ queue ID	Enter a specific CMQ queue ID, such as queue-3abkyggi
Instances.N.Dimensions.1.Name	queueName	Dimension name of the CMQ queue	Enter a string-type dimension name, such as queueName
Instances.N.Dimensions.1.Value	queueName	A specific CMQ queue name	Enter a specific CMQ queue name, such as test1

## Input Parameters

To query the monitoring data of a CMQ queue, use the following input parameters:

&Namespace=QCE/CMQ

&Instances.N.Dimensions.0.Name=queueId

&Instances.N.Dimensions.0.Value=

&Instances.N.Dimensions.1.Name=queueName

&Instances.N.Dimensions.1.Value=

# CMQ CKafka

## Topic Monitoring Metrics

Last updated : 2020-07-14 16:26:47

### Namespace

Namespace=QCE/CKAFKA

### Monitoring Metrics

Metric	Description	Unit	Dimension
CtopicProFlow	Production traffic of the topic	MB	instanceld and topicId
CtopicConFlow	Consumption traffic of the topic	MB	instanceld and topicId
CtopicMsgHeap	Number of messages stored in the topic disk	MB	instanceld and topicId
CtopicProCount	Number of messages produced in the topic	Count	instanceld and topicId
CtopicProReqCount	Number of production requests in the topic	Count	instanceld and topicId
CtopicConReqCount	Number of consumption requests in the topic	Count	instanceld and topicId
CtopicMsgCount	Number of messages stored in the topic disk	Count	instanceld and topicId
CtopicConCount	Number of messages consumed in the topic	Count	instanceld and topicId

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the `period` supported by each metric.

### Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	instanceld	Dimension name of the CKafka instance ID	Enter a string-type dimension name, such as <code>instanceld</code>
Instances.N.Dimensions.0.Value	instanceld	A specific CKafka instance ID	Enter a specific instance ID, such as <code>ckafka-test</code>
Instances.N.Dimensions.1.Name	topicId	Dimension name of the topic ID	Enter a string-type dimension name, such as <code>topicId</code>
Instances.N.Dimensions.1.Value	topicId	A specific topic ID	Enter a specific topic ID, such as <code>topic-test</code>

### Input Parameters

To query the monitoring data of a CKafka topic, use the following input parameters:

&Namespace=QCE/CKAFKA

&Instances.N.Dimensions.0.Name=instanceld

&Instances.N.Dimensions.0.Value=

&Instances.N.Dimensions.1.Name=topicId

&Instances.N.Dimensions.1.Value=

# Instance Monitoring Metrics

Last updated : 2020-07-14 16:26:48

## Namespace

Namespace=QCE/CKAFKA

## Monitoring Metrics

Parameter	Metric Name	Description	Unit	Dimension
InstanceMsgHeap	Used disk capacity	Used instance disk capacity (including the capacity for replicas), which is the latest value in the selected time granularity	MB	instanceld
InstanceProCount	Number of messages produced	Number of messages produced in the instance, which is the total number of messages in the selected time granularity	Count	instanceld
InstanceConCount	Number of consumed messages	Number of messages consumed in the instance, which is the total number of messages in the selected time granularity	Count	instanceld
InstanceProReqCount	Number of production requests	Number of production requests in the instance, which is the total number of requests in the selected time granularity	Count	instanceld
InstanceConReqCount	Number of consumption requests	Number of consumption requests in the instance, which is the total number of requests in the selected time granularity	Count	instanceld
InstanceMsgCount	Number of persistent messages	Total number of messages stored in the instance disk (excluding replicas), which is the latest value in the selected time granularity	Count	instanceld
InstanceProFlow	Produced traffic	Production traffic in the instance (excluding traffic generated by replicas), which is the total traffic in the selected time granularity	MB/min	instanceld
InstanceConFlow	Consumed traffic	Consumption traffic in the instance (excluding traffic generated by replicas), which is the total traffic in the selected time granularity	MB/min	instanceld
InstanceDiskUsage	Disk utilization	Instance disk utilization	None. This metric indicates the ratio of the currently used disk capacity to the total disk capacity	instanceld
InstanceMaxConFlow	Peak consumption bandwidth	Peak bandwidth traffic generated when the instance consumes messages (no replicas in this case)	MB/s	instanceld
InstanceMaxProFlow	Peak production bandwidth	Peak bandwidth traffic generated when the instance produces messages (excluding traffic generated by replicas)	MB/s	instanceld

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the period supported by each metric.

## Overview of the Parameters in Each Dimension



Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	instanceld	Dimension name of the CKafka instance ID	Enter a string-type dimension name, such as instanceld
Instances.N.Dimensions.0.Value	instanceld	A specific CKafka instance ID	Enter a specific instance ID, such as ckafka-test

## Input Parameters

To query the monitoring data of a CKafka instance, use the following input parameters:

&Namespace=QCE/CKAFKA

&Instances.N.Dimensions.0.Name=instanceld

&Instances.N.Dimensions.0.Value=

# Consumer Group Monitoring Metrics

Last updated : 2020-07-14 16:26:48

## Namespace

Namespace=QCE/CKAFKA

## Monitoring Metrics

Parameter	Metric Name	Description	Unit	Dimension
CgroupMaxOffset	Maximum offset of the current partition	Maximum offset in the partition corresponding to the consumer group	Count	consumerGroup, instanceId, topicId, partition, and topicName
CtopicMsgOffset	Current consumption offset	Current consumption offset in the partition corresponding to the consumer group	Count	consumerGroup, instanceId, topicId, partition, and topicName
CtopicUnconsumeMsgCount	Number of unconsumed messages	Number of unconsumed messages in the partition corresponding to the consumer group	Count	consumerGroup, instanceId, topicId, partition, and topicName
CtopicUnconsumeMsgOffset	Offset of the unconsumed messages	Size of the unconsumed messages in the partition corresponding to the consumer group	MB	consumerGroup, instanceId, topicId, partition, and topicName

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the period supported by each metric.

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	consumerGroup	Dimension name of the consumer group	Enter a string-type dimension name, such as consumerGroup
Instances.N.Dimensions.0.Value	consumerGroup	A specific consumer group	Enter a consumer group to query, such as perf-consumer-8330
Instances.N.Dimensions.1.Name	instanceId	Dimension name of the instance ID	Enter a string-type dimension name, such as instanceId
Instances.N.Dimensions.1.Value	instanceId	A specific instance ID	Enter the ID of the instance whose monitoring data is to be queried, such as kafka-test
Instances.N.Dimensions.2.Name	topicId	Dimension name of the topic ID	Enter a string-type dimension name, such as topicId
Instances.N.Dimensions.2.Value	topicId	A specific topic ID	Enter the ID of the subscribed topic, such as topic-test
Instances.N.Dimensions.3.Name	partition	Dimension name of the partition	Enter a string-type dimension name, such as partition
Instances.N.Dimensions.3.Value	partition	A specific partition	Enter a topic partition, such as 0
Instances.N.Dimensions.4.Name	topicName	Dimension name of the topic	Enter a string-type dimension name, such as topicName

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.5.Value	topicName	A specific topic name	Enter the name of the consumption topic, such as test

## Input Parameters

To query the monitoring data of a CKafka consumer group, use the following input parameters:

&Namespace=QCE/CKAFKA

&Instances.N.Dimensions.0.Name=consumerGroup

&Instances.N.Dimensions.0.Value=

&Instances.N.Dimensions.1.Name=instanceId

&Instances.N.Dimensions.1.Value=

&Instances.N.Dimensions.2.Name=topicId

&Instances.N.Dimensions.2.Value=

&Instances.N.Dimensions.3.Name=topicName

&Instances.N.Dimensions.3.Value=

&Instances.N.Dimensions.4.Name=partition

&Instances.N.Dimensions.4.Value=

# API Gateway Monitoring Metrics

Last updated : 2020-07-30 16:17:19

## Namespace

Namespace=QCE/APIGATEWAY

## Metric Name

Parameter	Metric Name	Description	Calculation Method	Unit
NumOfReq	Number of requests	Number of requests passing the API gateway	Sum based on the selected time granularity	Times
SucceReq	Number of valid calls	Number of valid call requests passing the API gateway	Sum based on the selected time granularity	Times
OutTraffic	Public outbound traffic	Traffic of public packets sent by the API gateway	Sum based on the selected time granularity	MB
InTraffic	Private outbound traffic	Traffic of private packets sent by the API gateway	Sum based on the selected time granularity	MB
ResponseTime	Response time	Time used by the API gateway to respond to a request	Average value based on the selected time granularity	ms
ClientError	Number of client errors	Number of invalid requests sent to the API gateway by the client, such as authentication failures or exceeding the upper limit	Sum based on the selected time granularity	Times
ServerError	Number of backend server errors	Number of status codes greater than or equal to 400 returned by the real server after the API gateway forwards messages to the real server	Sum based on the selected time granularity	Times
ConcurrentConnections	Number of concurrent connections	Number of current persistent connections of the API gateway	Average value based on the selected time granularity	Count
Serviceservererror404	Number of backend 404 errors	Number of errors where the requested resource is not found on the real server	Sum based on the selected time granularity	Times
Serviceservererror502	Number of server 502 errors	Number of errors where an invalid response is received by the real server when the API gateway attempts to execute a backend request	Sum based on the selected time granularity	Times

- Monitoring metrics of the API gateway support all dimensions. You can choose the dimensions of the monitoring metrics based on the [Dimension Description](#).
- The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the period supported by each metric.

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
----------------	----------------	-----------------------	--------

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	serviceld	Dimension name of the API gateway service ID	Enter a string-type dimension name, such as serviceld
Instances.N.Dimensions.0.Value	serviceld	A specific API gateway service ID	Enter a specific service ID, such as service-12345jy
Instances.N.Dimensions.1.Name	environmentName	Environment dimension name	Enter a string-type dimension name, such as environmentName
Instances.N.Dimensions.1.Value	environmentName	A specific environment name	Enter an environment name, such as release, test, or repub
Instances.N.Dimensions.2.Name	apiid/key	Dimension name of the APIId or the SecretKey	Enter a string-type dimension name, such as apiid or key
Instances.N.Dimensions.2.Value	apiid/secretid	A specific APIId or SecretId	Enter a specific APIId or SecretId

## Dimensions

The API gateway provides the combinations of monitoring data in the following three dimensions: environment, API, and key pair (SecretId and SecretKey).

The following describes how to query the combinations of the API gateway in three dimensions:

### 1. Values of the input parameters at the environment dimension

```
&Namespace=QCE/APIGATEWAY
&Instances.N.Dimensions.0.Name=serviceld
&Instances.N.Dimensions.0.Value=
&Instances.N.Dimensions.1.Name=environmentName
&Instances.N.Dimensions.1.Value=
```

### 2. Values of the input parameters at the API dimension

```
&Namespace=QCE/APIGATEWAY
&Instances.N.Dimensions.0.Name=serviceld
&Instances.N.Dimensions.0.Value=
&Instances.N.Dimensions.1.Name=environmentName
&Instances.N.Dimensions.1.Value=
&Instances.N.Dimensions.2.Name=apiid
&Instances.N.Dimensions.2.Value=
```

### 3. Values of the input parameters at the key pair dimension (for allowed users only)

```
&Namespace=QCE/APIGATEWAY
&Instances.N.Dimensions.0.Name=serviceld
&Instances.N.Dimensions.0.Value=
&Instances.N.Dimensions.1.Name=environmentName
&Instances.N.Dimensions.1.Value=
&Instances.N.Dimensions.2.Name=key
&Instances.N.Dimensions.2.Value=
```

# Elasticsearch Monitoring Metrics

Last updated : 2020-08-17 16:29:53

## Namespace

Namespace=QCE/CES

## Monitoring Metrics

Parameter	Metric Name	Calculation Method	Description	Unit	Dimension	Statistical Granularity (Period)
Status	Cluster health status	Latest status of the ES cluster in the statistical period	Cluster health status: 0: green, 1: yellow, 2: red	-	ulInstanceId	60 secs and 300 secs
DiskUsageAvg	Average disk usage	Average disk usage of each node in the ES cluster in the statistical period	Average disk usage of each node in the ES cluster	%	ulInstanceId	60 secs and 300 secs
DiskUsageMax	Maximum disk usage	Maximum disk usage of each node in the ES cluster in the statistical period	Maximum disk usage of each node in the ES cluster	%	ulInstanceId	60 secs and 300 secs
JvmMemUsageAvg	Average JVM memory usage	Average JVM memory usage of each node in the ES cluster in the statistical period	Average JVM memory usage of each node in the ES cluster	%	ulInstanceId	60 secs and 300 secs
JvmMemUsageMax	Maximum JVM memory usage	Maximum JVM memory usage of each node in the ES cluster in the statistical period	Maximum JVM memory usage of each node in the ES cluster	%	ulInstanceId	60 secs and 300 secs
JvmOldMemUsageAvg	Average JVM old memory usage	Average JVM old memory usage of each node in the ES cluster in the statistical period	Average JVM old memory usage of each node in the ES cluster	%	ulInstanceId	60 secs and 300 secs
JvmOldMemUsageMax	Maximum JVM old memory usage	Maximum JVM old memory usage of each node in the ES cluster in the statistical period	Maximum JVM old memory usage of each node in the ES cluster	%	ulInstanceId	60 secs and 300 secs
CpuUsageAvg	Average CPU utilization	Average CPU utilization of each node in the ES cluster in the statistical period	Average CPU utilization of each node in the ES cluster	%	ulInstanceId	60 secs and 300 secs
CpuUsageMax	Maximum CPU utilization	Maximum CPU utilization of each node in the ES cluster in the statistical period	Maximum CPU utilization of each node in the ES cluster	%	ulInstanceId	60 secs and 300 secs
CpuLoad1minAvg	Average CPU load of the cluster per minute	Average CPU load per minute of each node in the ES cluster in the statistical period	Average CPU load per minute of each node in the ES cluster	-	ulInstanceId	60 secs and 300 secs

Parameter	Metric Name	Calculation Method	Description	Unit	Dimension	Statistical Granularity (Period)
CpuLoad1minMax	Maximum CPU load of the cluster per minute	Maximum CPU load per minute of each node in the ES cluster in the statistical period	Maximum CPU load per minute of each node in the ES cluster	-	ulInstanceId	60 secs and 300 secs
IndexLatencyAvg	Average write latency	Average write latency of the ES cluster in the statistical period	Average write latency of the ES cluster	ms	ulInstanceId	60 secs and 300 secs
IndexLatencyMax	Maximum write latency	Maximum write latency of the ES cluster in the statistical period	Maximum write latency of the ES cluster	ms	ulInstanceId	60 secs and 300 secs
SearchLatencyAvg	Average query latency	Average query latency of the ES cluster in the statistical period	Average query latency of the ES cluster	ms	ulInstanceId	60 secs and 300 secs
SearchLatencyMax	Maximum query latency	Maximum query latency of the ES cluster in the statistical period	Maximum query latency of the ES cluster	ms	ulInstanceId	60 secs and 300 secs
IndexSpeed	Write speed	Average write speed of the ES cluster in the statistical period	Average write speed of the ES cluster	Times/sec	ulInstanceId	60 secs and 300 secs
SearchCompletedSpeed	Query speed	Average query speed of the ES cluster in the statistical period	Average query speed of the ES cluster	Times/sec	ulInstanceId	60 secs and 300 secs
BulkRejectedCompletedPercent	Bulk rejection rate	Percentage of rejected bulk operations to all bulk operations in the ES cluster in the statistical period	Percentage of rejected bulk operations to all bulk operations	%	ulInstanceId	60 secs and 300 secs
SearchRejectedCompletedPercent	Query rejection rate	Percentage of rejected query operations to all query operations in the ES cluster in the statistical period	Percentage of rejected query operations to all query operations	%	ulInstanceId	60 secs and 300 secs
IndexDocs	Total number of documents	Average of the total number of documents in the ES cluster in the statistical period	Total number of documents in the ES cluster	Count	ulInstanceId	60 secs and 300 secs
AutoSnapshotStatus	Execution status of the automatic backup task in the ES cluster	Status of the last executed automatic backup task in the ES cluster in the statistical period	Execution status of the automatic backup task in the ES cluster	-	ulInstanceId	300 secs

**Note :**

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to get the `period` supported by each metric.

## Overview of Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	ulInstanceId	Dimension name of the ES instance ID	Enter a string-type dimension name, such as ulInstanceId
Instances.N.Dimensions.0.Value	ulInstanceId	A specific ES instance ID	Enter a specific instance ID, such as es-example

## Input Parameters

To query the monitoring data of the Elasticsearch Service, use the following input parameters:

`&Namespace=QCE/CES`

`&Instances.N.Dimensions.0.Name=uInstanceld`

`&Instances.N.Dimensions.0.Value=Specific ES instance ID`

## Cloud Function Monitoring Metrics

Last updated : 2020-07-27 11:51:54



## Namespace

Namespace=QCE/SCF\_V2

## Monitoring Metrics

Metric	Meaning	Description	Unit	Dimension
Duration	Running duration	Average function running duration calculated by 1-minute or 5-minute granularity	ms	functionName, version, namespace, and alias
Invocation	Number of calls	Total number of function calls calculated by 1-minute or 5-minute granularity	-	functionName, version, namespace, and alias
Error	Number of call errors	Number of error requests generated after the function is executed, which is the sum of function errors and platform errors calculated by 1-minute or 5-minute granularity	-	functionName, version, namespace, and alias
ConcurrentExecutions	Concurrent executions	Maximum number of requests processed concurrently at the same point in time, which is calculated by 1-minute or 5-minute granularity	-	functionName, version, namespace, and alias
ConfigMem	Configure memory capacity	Configure memory capacity	MB	functionName, version, namespace, and alias
FunctionErrorPercentage	Function error rate	Function error rate	%	functionName, version, namespace, and alias
Http2xx	Successful calls	Number of successful calls	-	functionName, version, namespace, and alias
Http432	Resource limit exceeded	Number of times that resource limit is exceeded	-	functionName, version, namespace, and alias
Http433	Function execution timeout	Number of times that function execution times out	-	functionName, version, namespace, and alias
Http434	Memory limit exceeded	Number of times that memory limit is exceeded	-	functionName, version, namespace, and alias
Http4xx	Function errors	Number of function errors	-	functionName, version, namespace, and alias
Mem	Running memory capacity	Maximum memory capacity used during function execution, which is calculated by 1-minute or 5-minute granularity	MB	functionName, version, namespace, and alias

Metric	Meaning	Description	Unit	Dimension
MemDuration	Time memory capacity	Resource usage as the function running duration multiplied by memory capacity required for running the function, which is calculated by 1-minute or 5-minute granularity	MB/ms	-
OutFlow	Outbound traffic	Outbound traffic for accessing external network resources within the function, which is calculated by 1-minute or 5-minute granularity	-	functionName, version, namespace, and alias
ServerErrorPercentage	Platform error rate	Platform error rate	%	functionName, version, namespace, and alias
Syserr	System internal errors	Number of system internal errors	-	functionName, version, namespace, and alias
Throttle	Function execution throttles	Number of times that function execution is throttled, which is calculated by 1-minute or 5-minute granularity	-	functionName, version, namespace, and alias

**Note :**

The statistical granularity ( `period` ) may vary by metrics. To obtain the statistical granularity supported by each metric, call [DescribeBaseMetrics](#).

## Overview of parameters in each dimension

Parameter	Dimension	Dimension Description	Format
Instances.N.Dimensions.0.Name	functionName	Dimension name of cloud function	Enter a string-type dimension name, such as functionName
Instances.N.Dimensions.0.Value	functionName	A specific cloud function name	Enter a specific function name, such as test
Instances.N.Dimensions.1.Name	namespace	Dimension name of cloud function namespace	Enter a string-type dimension name, such as namespace
Instances.N.Dimensions.1.Value	namespace	Namespace of the cloud function	Enter a specific function name, such as test. The namespace of a cloud function is customized by the user. You can call <a href="#">ListNamespaces</a> to obtain namespace details
Instances.N.Dimensions.2.Value	version	Dimension name of cloud function version	Enter a string-type dimension name, such as version
Instances.N.Dimensions.2.Name	version	A specific cloud function version	Enter a specific function version, such as \$latest
Instances.N.Dimensions.2.Value	alias	Dimension name of cloud function alias	Enter a string-type dimension name, such as alias
Instances.N.Dimensions.2.Name	alias	A specific cloud function alias	Enter a specific function alias, such as test

## Input Parameters

You can query monitoring data using the following two dimension combinations. The input parameters are as follows:

### 1. Pulling metric monitoring data based on cloud function version

```
&Instances.N.Dimensions.0.Name=functionName
&Instances.N.Dimensions.0.Value=
&Instances.N.Dimensions.1.Name=namespace
&Instances.N.Dimensions.1.Value=
&Instances.N.Dimensions.2.Name=version
&Instances.N.Dimensions.2.Value=
```

## **2. Pulling metric monitoring data based on cloud function alias**

```
&Instances.N.Dimensions.0.Name=functionName
&Instances.N.Dimensions.0.Value=
&Instances.N.Dimensions.1.Name=namespace
&Instances.N.Dimensions.1.Value=
&Instances.N.Dimensions.2.Name=alias
&Instances.N.Dimensions.2.Value=
```

## CDN Monitoring Metrics

Last updated : 2020-07-14 16:26:49

### Namespace

Namespace=QCE/CDN

### Monitoring Metrics

Parameter	Metric Name	Unit	Dimension
Bandwidth	Bandwidth	Mbps	projectId and domain
Requests	Requests	Times	projectId and domain
BackOriginBandwidth	Origin-pull bandwidth	Mbps	projectId and domain
BackOriginFailRate	Origin-pull failure rate	%	projectId and domain
BackOriginFlux	Origin-pull traffic	GB	projectId and domain
BackOriginSpeed	Origin-pull rate	KB/s	projectId and domain
Flux	Traffic	GB	projectId and domain
RequestsHitRate	Request hit rate	%	projectId and domain

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the period supported by each metric.

### Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	projectId	Project dimension name	Enter a string-type dimension name, such as projectId
Instances.N.Dimensions.0.Value	projectId	A specific project ID	Enter a specific project ID, such as 1
Instances.N.Dimensions.0.Name	domain	Dimension name of the domain name	Enter a string-type dimension name, such as domain
Instances.N.Dimensions.0.Value	domain	A specific domain name	Enter a specific domain name, such as <code>www.qq.com</code>

### Input Parameters

To query the monitoring data of a CDN instance, use the following input parameter values:

&Namespace= QCE/CDN

&Instances.N.Dimensions.0.Name=projectId

&Instances.N.Dimensions.0.Value=

&Instances.N.Dimensions.1.Name=domain

&Instances.N.Dimensions.1.Value=

# COS Monitoring Metrics

Last updated : 2020-09-07 11:39:19

## Namespace

Namespace=QCE/COS

## Monitoring Metrics

### Note :

Because Cloud Object Storage (COS) uses a generic region, no matter where a bucket is located, select "Guangzhou" as the `Region` when pulling COS monitoring metric data.

- When pulling data using the [API Explorer](#), select "ap-guangzhou" for the `Region` field.
- When pulling data using an SDK, enter "ap-guangzhou" for the `Region` field.

### Request metrics

Parameter	Metric Name	Description	Unit	Dimension
StdReadRequests	STANDARD read requests	Number of STANDARD read requests, which is calculated based on the number of sent requests	N/A	appid and bucket
StdWriteRequests	STANDARD write requests	Number of STANDARD write requests, which is calculated based on the number of sent requests	N/A	appid and bucket
laReadRequests	STANDARD_IA read requests	Number of STANDARD_IA read requests, which is calculated based on the number of sent requests	N/A	appid and bucket
laWriteRequests	STANDARD_IA write requests	Number of STANDARD_IA write requests, which is calculated based on the number of sent requests	N/A	appid and bucket
NIReadRequests	Nearline Storage read requests	Number of Nearline Storage read requests, which is calculated based on the number of sent requests	N/A	appid and bucket
NIWriteRequests	Nearline Storage write requests	Number of Nearline Storage write requests, which is calculated based on the number of sent requests	N/A	appid and bucket

### Storage metrics

Metric	Description	Unit	Dimension
StdStorage	STANDARD - storage space	MB	appid and bucket
SiaStorage	STANDARD_IA - storage space	MB	appid and bucket
NelStorage	Nearline storage - storage space	MB	appid and bucket
ArcStorage	ARCHIVE - storage space	MB	appid and bucket
MazStdStorage	MAZ_STANDARD - storage space	MB	appid and bucket
StdObjectNumber	STANDARD - number of objects	N/A	appid and bucket
MazStdObjectNumber	MAZ_STANDARD - number of objects	N/A	appid and bucket

IaObjectNumber	STANDARD_IA - number of objects	N/A	appid and bucket
NIOBJECTNumber	Nearline Storage - number of objects	N/A	appid and bucket
MazlaReadRequests	MAZ_STANDARD_IA - number of read requests	N/A	appid and bucket
MazlaWriteRequests	MAZ_STANDARD_IA - number of write requests	N/A	appid and bucket
MazlaStorage	MAZ_STANDARD_IA - storage space	MB	appid and bucket
MazlaObjectNumber	MAZ_STANDARD_IA - number of objects	N/A	appid and bucket
StdMultipartNumber	STANDARD - incomplete multipart uploads	N/A	appid and bucket
MazStdMultipartNumber	MAZ_STANDARD - incomplete multipart uploads	N/A	appid and bucket
IaMultipartNumber	STANDARD_IA - incomplete multipart uploads	N/A	appid and bucket
MazIaMultipartNumber	MAZ_STANDARD_IA - incomplete multipart uploads	N/A	appid and bucket
ArcMultipartNumber	ARCHIVE - incomplete multipart uploads	N/A	appid and bucket
MazArcMultipartNumber	MAZ_ARCHIVE - incomplete multipart uploads	N/A	appid and bucket
NIMultipartNumber	Nearline Storage - incomplete multipart uploads	N/A	appid and bucket
ItFrequentMultipartNumber	Intelligent Laying of Files with High-Frequency Access - incomplete multipart uploads	N/A	appid and bucket
MazItFrequentMultipartNumber	MAZ_Intelligent Laying of Files with High-Frequency Access - incomplete multipart uploads	N/A	appid and bucket

**Traffic metrics**

Parameter	Metric Name	Description	Unit	Dimension
InternetTraffic	Public network downstream traffic	Traffic generated by data transfer between the client and COS over a public network	Byte	appid and bucket
InternalTraffic	Private network downstream traffic	Traffic generated by data transfer between the client and COS over a Tencent Cloud private network	Byte	appid and bucket
CdnOriginTraffic	CDN origin-pull traffic	Traffic generated by data transfer from COS to the Tencent Cloud CDN edge server	Byte	appid and bucket
InboundTraffic	Total upload traffic over the public and private networks	Traffic generated by data upload to COS over the public and private networks	Byte	appid and bucket

**Return code metrics**

Parameter	Metric Name	Description	Unit	Dimension
2xxResponse	2xx status code	Number of 2xx errors in the current bucket	N/A	appid and bucket
3xxResponse	3xx status code	Number of 3xx errors in the current bucket	N/A	appid and bucket
4xxResponse	4xx status code	Number of 4xx errors in the current bucket	N/A	appid and bucket

5xxResponse	5xx status code	Number of 5xx errors in the current bucket	N/A	appid and bucket
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**Note :**

1. For more information, see [Error Codes](#).
2. The statistical granularity ( `period` ) may vary by metric. You can call the [DescribeBaseMetrics](#) API to obtain the `period` supported by each metric.

### Data retrieval metrics

Parameter	Metric Name	Description	Unit	Dimension
StdRetrieval	Standard data retrieval	Traffic generated due to the retrieval of standard data	Byte	appid and bucket
laRetrieval	Low-frequency data retrieval	Traffic generated due to the retrieval of low-frequency data	Byte	appid and bucket
NIRetrieval	Nearline data retrieval	Traffic generated due to the retrieval of nearline data	Byte	appid and bucket

## Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
&Instances.N.Dimensions.0.Name	appid	Dimension name of the root account <code>APPID</code>	Enter a string-type dimension name, such as appid
&Instances.N.Dimensions.0.Value	appid	Specific APPID of the root account	Enter a specific root account APPID, such as 1250000000
&Instances.N.Dimensions.1.Name	bucket	Dimension name of the bucket	Enter a string-type dimension name, such as bucket
&Instances.N.Dimensions.1.Value	bucket	Specific bucket name	Enter a specific bucket name, such as examplebucket-1250000000

## Input Parameters

To query COS monitoring data, the values of the input parameters are as follows:

&Namespace=QCE/COS

&Instances.N.Dimensions.0.Name=appid

&Instances.N.Dimensions.0.Value= `APPID` of the root account

&Instances.N.Dimensions.1.Name=bucket

&Instances.N.Dimensions.1.Value=

## CFS Monitoring Metrics

Last updated : 2020-07-14 16:26:50

### Namespace

Namespace=QCE/CFS

### Monitoring Metrics

Parameter	Metric Name	Description	Unit	Dimension
Storage	Storage capacity of the file system	Current storage capacity of the file system	GB	FileSystemId
DataReadIoBytes	Read bandwidth	Average amount of data read by the file system per second	KB/s	FileSystemId
DataWriteIoBytes	Write bandwidth	Average amount of data written to the file system per second	KB/s	FileSystemId
DataReadIoCount	Read IOPS	Average number of reads from the file system per second	Times/sec	FileSystemId
DataWriteIoCount	Write IOPS	Average number of writes to the file system per second	Times/sec	FileSystemId

The statistical granularity ( `period` ) may vary by metric. The [DescribeBaseMetrics](#) API can be used to obtain the period supported by each metric.

### Overview of the Parameters in Each Dimension

Parameter Name	Dimension Name	Dimension Description	Format
Instances.N.Dimensions.0.Name	FileSystemId	Dimension name of the file system ID	Enter a string-type dimension name, such as FileSystemId
Instances.N.Dimensions.0.Value	FileSystemId	A specific file system ID	Enter a specific file system ID, such as cfs-fjojeogej

### Input Parameters

To query the monitoring data of the file storage, use the following input parameters:

&Namespace=QCE/CFS

&Instances.N.Dimensions.0.Name=FileSystemId

&Instances.N.Dimensions.0.Value=