

Basic Cloud Monitor

Cloud Product Metrics

Product Introduction



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Cloud Product Metrics

CVM Monitoring Metrics

Cloud Server Monitoring Indicators

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Cloud Monitor of Tencent Cloud provides the following monitoring metrics for Cloud Virtual Machine:

Metric Name	Description	Meaning in Linux	Meaning in Windows	Unit	Dimension
CPU_usage	cpu_usage	Percentage of CPU in non-idle status, which is calculated by obtaining data /proc/stat	Percentage of CPU in non-idle status	%	unInstanceId
Average CPU load	cpu_loadavg	Take the first column data of /proc/loadavg *100 within 1 minute. The Cloud Monitor data with the granularity of 5 minutes is the maximum value of the data within 1 minute	None	-	unInstanceId
Memory usage	mem_used	Difference value between Memtotal and MemFree of /proc/meminfo	Same as Linux	MB	unInstanceId

Metric Name	Description	Meaning in Linux	Meaning in Windows	Unit	Dimension
Memory utilization	mem_usage	The ratio of actual memory used by users to the total memory after subtracting the cache, buffer and remaining memory from the total memory	The ratio of actual memory used by users to the total memory after subtracting the cache, buffer and remaining memory from the total memory	%	unInstanceId
Private network outbound bandwidth	lan_outtraffic	Outbound traffic per second of private network NIC	Outbound traffic per second of private network NIC	Mbps	unInstanceId
Private network inbound bandwidth	lan_intraffic	Inbound traffic per second of private network NIC	Inbound traffic per second of private network NIC	Mbps	unInstanceId
Private network outbound packets	lan_outpkg	Outbound packets per second of private network NIC	Outbound packets per second of private network NIC	Count/s	unInstanceId
Private network inbound packets	lan_inpkg	Inbound packets per second of private network NIC	Outbound packets per second of private network NIC	Count/s	unInstanceId
Public network outbound bandwidth	wan_outtraffic	Outbound traffic per second of public network NIC	Outbound traffic per second of public network NIC	Mbps	unInstanceId

Metric Name	Description	Meaning in Linux	Meaning in Windows	Unit	Dimension
Public network inbound bandwidth	wan_intraffic	Inbound traffic per second of public network NIC	Inbound traffic per second of public network NIC	Mbps	unInstanceId
Public network outbound packets	wan_outpkg	Outbound packets per second of public network NIC	Outbound packets per second of public network NIC	Count/s	unInstanceId
Public network inbound packets	wan_outpkg	Inbound packets per second of public network NIC	Inbound packets per second of public network NIC	Count/s	unInstanceId
Disk read traffic	disk_read_traffic	Average data volume read from a disk to a memory per second, take the maximum value among all partitions	Average data volume read from a disk to a memory per second, take the maximum value among all partitions	KB/s	unInstanceId
Disk write traffic	disk_write_traffic	Average data volume written from a memory to a disk per second, take the maximum value among all partitions	Average data volume written from a memory to a disk per second, take the maximum value among all partitions	KB/s	unInstanceId
Disk usage	disk_usage	Percentage of used disk space, displayed by partitions	Percentage of used disk space, displayed by partitions	%	unInstanceId

Metric Name	Description	Meaning in Linux	Meaning in Windows	Unit	Dimension
Disk I/O wait	disk_io_await	Average waiting time for each I/O operation of a device, take the maximum value among all partitions	Average waiting time for I/O operation of a device, take the maximum value among all partitions	ms	unInstanceId

For more information about the monitoring metrics of Cloud Virtual Machine, please see [Read Monitoring Data API](#) in the Cloud Monitor API.

Install Monitoring Component

Last updated : 2017-11-29 16:24:41

To use Tencent Cloud Monitor to view the **CVM** metric data and generate alarms, you need to properly install the monitoring components on the Tencent Cloud CVM, which will be used when you collect the metric data of CVM.

Note: In order to normally report the metric data, you need to open port tcp dport 80 of CVM to Internet.

Installing on Linux

After [logging in to Linux instance](#), you can execute the following command to install required components, as shown below:

```
wget http://update2.agent.tencentyun.com/update/linux_stargate_installer
chmod +x linux_stargate_installer
./linux_stargate_installer
```

Once installed, you will see the following results:

```
root@vm-10-218-ubuntu:~# crontab -l | grep stargate
*/1 * * * * /usr/local/qcloud/stargate/admin/start.sh > /dev/null 2>&1 &
```

```
root@vm-10-218-ubuntu:~# ps ax | grep sgagent
14751 ?        S1          0:00 /usr/local/qcloud/stargate/sgagent -d
```

```
root@vm-10-218-ubuntu:~# ps ax | grep barad_agent
15286 pts/0    S+          0:00 grep --color=auto barad_agent
22515 ?        S           0:06 barad_agent
22530 ?        S           1:04 barad_agent
22531 ?        S1          10:16 barad_agent
```

Installing on Windows

1) After [logging in to Windows instance](#), you can access

<http://update2.agent.tencentyun.com/update/windows-stargate-installer.exe> through the private network and download the installer `windows-stargate-installer.exe`.

2) Run the installer to install it automatically.

CKafka Monitoring Indicators

Last updated : 2018-01-31 15:32:19

Tencent Cloud Monitor provides the following monitoring metrics for CKafka instances:

Indicator	Name	Description	Unit	Dimension
Production traffic	pro_flow	Instance-level production traffic. Calculate the sum at a granularity of 1 or 5 minutes	MB	Instance
Consumption traffic	con_flow	Instance-level consumption traffic. Calculate the sum at a granularity of 1 or 5 minutes	MB	Instance
Amount of retained messages	instance_heap	Amount of messages stored in the disk at instance level. Get the latest value at a granularity of 1 or 5 minutes	MB	Instance
Number of production messages	pro_count	Number of production messages at instance level. Calculate the sum at a granularity of 1 or 5 minutes	-	Instance
Number of consumption messages	con_count	Number of consumption messages at instance level. Calculate the sum at a granularity of 1 or 5 minutes	-	Instance
Number of production requests	pro_req_count	Number of production requests at instance level. Calculate the sum at a granularity of 1 or 5 minutes	-	Instance
Number of consumption requests	con_req_count	Number of consumption requests at instance level. Calculate the sum at a granularity of 1 or 5 minutes	-	Instance
Number of retained messages	msg_count	Number of messages stored in the disk at instance level. Get the latest value at a granularity of 1 or 5 minutes	-	Instance
Production traffic	pro_flow	Topic-level production traffic. Calculate the sum at a granularity of 1 or 5 minutes	MB	Topic

Indicator	Name	Description	Unit	Dimension
Consumption traffic	con_flow	Topic-level consumption traffic. Calculate the sum at a granularity of 1 or 5 minutes	MB	Topic
Amount of retained messages	msg_heap	Amount of messages stored in the disk at Topic level. Get the latest value at a granularity of 1 or 5 minutes	MB	Topic
Number of production messages	pro_count	Number of production messages at Topic level. Calculate the sum at a granularity of 1 or 5 minutes	-	Topic
Number of consumption messages	con_count	Number of consumption messages at Topic level. Calculate the sum at a granularity of 1 or 5 minutes	-	Topic
Number of production requests	pro_req_count	Number of production requests at Topic level. Calculate the sum at a granularity of 1 or 5 minutes	-	Topic
Number of consumption requests	con_req_count	Number of consumption requests at Topic level. Calculate the sum at a granularity of 1 or 5 minutes	-	Topic
Number of retained messages	msg_count	Number of messages stored in the disk at Topic level. Get the latest value at a granularity of 1 or 5 minutes	-	Topic

For more information about how to use the monitoring metrics of CKafka, please see the API [Read Monitoring Data](#) in the Cloud Monitor API.

Load Balance Monitoring Indicators

Last updated : 2017-11-24 10:17:37

Cloud Monitor of Tencent Cloud provides the following monitoring metrics for Cloud Load Balancing(CLB):

Cloud Load Balancer Instance Monitoring Metrics

Metric Name	Description	Unit	Dimension
Active Connection	rrv_connum	count	Backend CVM IP, backend CVM port, and VPC ID
Inactive Connection	rrv_inactive_conn	count	Backend CVM IP, backend CVM port, and VPC ID
Inbound Packet	rrv_inpkg	count/s	Backend CVM IP, backend CVM port, and VPC ID
Inbound Traffic	rrv_intraffic	bps	Backend CVM IP, backend CVM port, and VPC ID
New Connection	rrv_new_conn	count	Backend CVM IP, backend CVM port, and VPC ID
Outbound Packet	rrv_outpkg	count/s	Back-end CVM IP, back-end CVM port, and VPC ID
Outbound Traffic	rrv_outtraffic	bps	Back-end CVM IP, back-end CVM port, and VPC ID

Backend CVM Monitoring Metrics

Metric Name	Description	Unit	Dimension
Active Connection	rv_connum	count	Backend CVM IP and VPC ID
Inactive Connection	rv_inactive_conn	count	Back-end CVM IP and VPC ID
Inbound Packet	rv_inpkg	count/s	Backend CVM IP and VPC ID

Inbound Traffic	rv_intraffic	bps	Backend CVM IP and VPC ID
New Connection	rv_new_conn	count	Back-end CVM IP and VPC ID
Outbound Packet	rv_outpkg	count/s	Backend CVM IP and VPC ID
Outbound Traffic	rv_outtraffic	bps	Backend CVM IP and VPC ID

Backend CVM Port-level Monitoring Metrics

Metric Name	Description	Unit	Dimension
Active Connection (port-level)	rrv_connum	count	Backend CVM IP, backend CVM port, and VPC ID
Inactive Connection (port-level)	rrv_inactive_conn	count	Backend CVM IP, backend CVM port, and VPC ID
Inbound Packet (port-level)	rrv_inpkg	count/s	Backend CVM IP, back-end CVM port, and VPC ID
Inbound Traffic (port-level)	rrv_intraffic	bps	Backend CVM IP, backend CVM port, and VPC ID
New Connection (port-level)	rrv_new_conn	count	Backend CVM IP, backend CVM port, and VPC ID
Outbound Packet (port-level)	rrv_outpkg	count/s	Backend CVM IP, backend CVM port, and VPC ID
Outbound Traffic (port-level)	rrv_outtraffic	bps	Backend CVM IP, backend CVM port, and VPC ID

For more information about the monitoring metrics of Cloud Load Balancing, please see [Read Monitoring Data API](#) in the Cloud Monitor API.

Cloud Database MySQL Monitoring Indicators

Last updated : 2018-04-23 10:09:56

Cloud Monitor of Tencent Cloud provides the following monitoring metrics for Cloud Database instance (MySQL):

Metric Name	Description	Unit	Dimension
Slow Queries	slow_queries	Counts per second	uInstanceld
Table Scan	select_scan	Counts per second	uInstanceld
Queries	select_count	Counts per second	uInstanceld
Updates	com_update	Counts per second	uInstanceld
Deletions	com_delete	Counts per second	uInstanceld
Insertions	com_insert	Counts per second	uInstanceld
Replacements	com_replace	Counts per second	uInstanceld
Total Requests	queries	Counts per second	uInstanceld
Connections	threads_connected	Count	uInstanceld
Query Usage	query_rate	%	uInstanceld
Used Capacity	real_capacity	MB	uInstanceld
Occupied Capacity	capacity	MB	uInstanceld
Sent Volume	bytes_sent	MB/s	uInstanceld
Received Volume	bytes_received	MB/s	uInstanceld

Metric Name	Description	Unit	Dimension
Volume Usage	volume_rate	%	ulInstancecd
Cache Hit Rate	qcache_hit_rate	%	ulInstancecd
Cache Use Rate	qcache_use_rate	%	ulInstancecd
Waited Table Locks	table_locks_waited	Counts per second	ulInstancecd
Creating Temp Table Rate	created_tmp_tables	Counts per second	ulInstancecd
Innodb Cache Hit Rate	innodb_cache_hit_rate	%	ulInstancecd
innodb Cache Use Rate	innodb_cache_use_rate	%	ulInstancecd
Read Innodb File	innodb_os_file_reads	Counts per second	ulInstancecd
Write Innodb File	innodb_os_file_writes	Counts per second	ulInstancecd
Innodb Fsyncs Number	innodb_os_fsyncs	Counts per second	ulInstancecd
myisam Cache Hit Rate	key_cache_hit_rate	%	ulInstancecd
Myisam Memory Use Rate	key_cache_use_rate	%	ulInstancecd
CPU Use Rate	cpu_use_rate	%	ulInstancecd
Memory Used	memory_use	MB	ulInstancecd
Temp File Number	created_tmp_files	count/s	ulInstancecd
Memory Temp Table Number	created_tmp_tables	count/s	ulInstancecd
Opend Tables	opened_tables	count	ulInstancecd
Waited Table Locks	table_locks_waited	count/s	ulInstancecd
Commit Numbers	com_commit	count/s	ulInstancecd
Rollback Numbers	com_rollback	count/s	ulInstancecd
Created threads	threads_created	count	ulInstancecd

Metric Name	Description	Unit	Dimension
Running Threads	threads_running	count	ulInstanceId
Maximum Connections	max_connections	count	ulInstanceId
Disk Temp Tables	created_tmp_disk_tables	count/s	ulInstanceId
Read Next Line Queries	handler_read_rnd_next	count/s	ulInstanceId
Internal Rollback	handler_rollback	count/s	ulInstanceId
Internal Commits	handler_commit	count/s	ulInstanceId
InnoDB Free Pages	innodb_buffer_pool_pages_free	count	ulInstanceId
InnoDB Free Pages	innodb_buffer_pool_pages_total	count	ulInstanceId
InnoDB Logic Read Requests	innodb_buffer_pool_reads	count/s	ulInstanceId
InnoDB Physical Reads	innodb_buffer_pool_reads	count/s	ulInstanceId
InnoDB Reads	innodb_data_read	Byte/s	ulInstanceId
InnoDB Total Reads	innodb_data_reads	count/s	ulInstanceId
InnoDB Total Writes	innodb_data_writes	count/s	ulInstanceId
InnoDB Writes	innodb_data_written	Byte/s	ulInstanceId
InnoDB Rows Deleted	innodb_rows_deleted	count/s	ulInstanceId
InnoDB Rows Inserted	innodb_rows_inserted	count/s	ulInstanceId
InnoDB Rows Updates	innodb_rows_updated	count/s	ulInstanceId
InnoDB Rows Reads	innodb_rows_read	count/s	ulInstanceId
InnoDB Average Row Lock Time	innodb_row_lock_time_avg	ms	ulInstanceId
InnoDB Waited Row Locks	innodb_row_lock_waits	count/s	ulInstanceId
Key Memory Unused Blocks	key_blocks_unused	count	ulInstanceId
Key Memory Used Locks	key_blocks_used	count	ulInstanceId
Key Memory Read Data Requests	key_read_requests	count/s	ulInstanceId

Metric Name	Description	Unit	Dimension
Disk Read Data Blocks	key_reads	count/s	uInstanceld
Data Block Write Key Buffers	key_write_requests	count/s	uInstanceld
Data Block Writes	key_writes	count/s	uInstanceld

For more information about the monitoring metrics of Cloud Database, please see [Read Monitoring Data API](#) in the Cloud Monitor API.

Cloud Cache Memcached Monitoring Indicators

Last updated : 2017-11-24 10:07:28

Cloud Monitor of Tencent Cloud provides the following monitoring metrics for Cloud Cache Service Memcached instance:

Metric	Description
Tablespace	The total space assigned to the current business
Used space	The space actually used by the current business
Number of records	Number of records and key-value pairs stored by the current business
GET counts	When the time granularity of query is five minutes, it indicates the number of read (GET) visits in the last five minutes. When the time granularity of query is one day, the value should be the peak of the day (counts per second)
SET counts	When the time granularity of query is five minutes, it indicates the number of write (SET) visits in the last five minutes. When the time granularity of query is one day, the value should be the peak of the day (counts per second)
DELETE counts	When the time granularity of query is five minutes, it indicates the number of write (DELETE) visits in the last five minutes. When the time granularity of query is one day, the value should be the peak of the day (counts per second)
Total counts	When the time granularity of query is five minutes, it indicates the number of GET/SET/DELETE visits in the last five minutes. When the time granularity of query is one day, the value should be the peak of the day (counts per second)
Timeout counts	When the time granularity of query is five minutes, it indicates the number of GET/SET/DELETE timeout in the last five minutes. When the time granularity of query is one day, the value should be the peak of the day (counts per second)

For more information about the monitoring metrics of Cloud Cache Service, please see [Read Monitoring Data API](#) in the Cloud Monitor API.