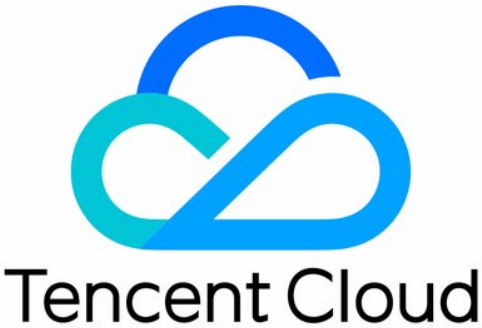
TencentCloud Managed Service for Prometheus

Purchase Guide

Product Documentation



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Purchase Guide
Billing Overview

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You can estimate the cost of TencentCloud Managed Service for Prometheus (TMP) resources by referring to the billing documentation.

Billing Mode

TMP supports the pay-as-you-go billing mode:

Billing Mode	Payment Mode	Applicable Scenario	Billing Formula
Pay-as-you-go	Postpaid mode, that is, you can apply for resources as needed first, and fees will be charged based on the actual resource usage.	It is suitable for businesses that may fluctuate greatly and instantaneously. In this mode, instances can be released immediately after use so as to reduce the cost.	Total fees = daily reported metric data volume (in million entries) x unit price + traffic fees (currently free of charge)

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Pay-as-You-Go (Postpaid)
Pay-as-You-Go Description

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TencentCloud Managed Service for Prometheus (TMP) is available for purchase in many major regions, and the service price may change across regions depending on different promotional activities or pricing strategies.

Pricing

Calculation Formula

Total fees = daily reported metric data volume (in million entries) x unit price + traffic fees (currently free of charge)

Billing Items

Billing Item	Description
Average reported metric data volume	Tiered pricing based on the reported metric data volume
Traffic	Public network traffic, which is currently free of charge

Free Metrics

Some metrics are free of charge in the pay-as-you-go mode. For details, see Free Metrics in Pay-as-You-Go Mode.

Instance Price

Unit Price for 15-Day Data Storage

Range of Average Reported Metric Data Volume (in million entries)	Unit Price (USD)
0 - 200 million	$0.19 per million
200 - 800 million	$0.12 per million
800 - 1,500 million	$0.06 per million
Above 1,500 million	$0.05 per million

Unit Price for 30-Day Data Storage

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Range of Average Reported Metric Data Volume (in million entries)	Unit Price (USD)
0 - 200 million	$0.22 per million
200 - 800 million	$0.16 per million
800 - 1,500 million	$0.11 per million
Above 1,500 million	$0.08 per million

Unit Price for 45-Day Data Storage

Range of Average Reported Metric Data Volume (in million entries)	Unit Price (USD)
0 - 200 million	$0.25 per million
200 - 800 million	$0.2 per million
800 - 1,500 million	$0.12 per million
Above 1,500 million	$0.09 per million

Note:

Storage for 90 days, 180 days, 1 year, and 2 years will be charged according to the instance region.

Unit Price for 90-Day Data Storage

Domestic non-financial areas, such as Guangzhou, Shanghai, and Beijing

Range of Average Reported Metric Data Volume (in million entries)	Price (USD)
0 - 200 million	$0.22 per million
200 - 800 million	$0.19 per million
800 - 1,500 million	$0.17 per million
Above 1,500 million	$0.16 per million

Finance zones in the Chinese mainland and outside the Chinese mainland (Hong Kong (China), Macao (China), Taiwan (China), and overseas), such as Hong Kong (China), Singapore, and Toronto

Range of Average Reported Metric Data Volume (in million entries)	Price (USD)
0 - 200 million	$0.43 per million
200 - 800 million	$0.37 per million

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800 - 1,500 million	$0.34 per million
Above 1,500 million	$0.31 per million

Unit Price for 180-Day Data Storage

Domestic non-financial areas, such as Guangzhou, Shanghai, and Beijing

Range of Average Reported Metric Data Volume (in million entries)	Price (USD)
0 - 200 million	$0.36 per million
200 - 800 million	$0.33 per million
800 - 1,500 million	$0.31 per million
Above 1,500 million	$0.30 per million

Finance zones in the Chinese mainland and outside the Chinese mainland (Hong Kong (China), Macao (China), Taiwan (China), and overseas), such as Hong Kong (China), Singapore, and Toronto

Range of Average Reported Metric Data Volume (in million entries)	Price (USD)
0 - 200 million	$0.71 per million
200 - 800 million	$0.65 per million
800 - 1,500 million	$0.62 per million
Above 1,500 million	$0.59 per million

Unit Price for One-Year Data Storage

Domestic non-financial areas, such as Guangzhou, Shanghai, and Beijing

Range of Average Reported Metric Data Volume (in million entries)	Price (USD)
0 - 200 million	$0.83 per million
200 - 800 million	$0.79 per million
800 - 1,500 million	$0.75 per million
Above 1,500 million	¥0.74 per million

Finance zones in the Chinese mainland and outside the Chinese mainland (Hong Kong (China), Macao (China), Taiwan (China), and overseas), such as Hong Kong (China), Singapore, and Toronto

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Range of Average Reported Metric Data Volume (in million entries)	Price (USD)
0 - 200 million	$1.65 per million
200 - 800 million	$1.57 per million
800 - 1,500 million	$1.49 per million
Above 1,500 million	$1.47 per million

Unit Price for Two-Year Data Storage

Domestic non-financial areas, such as Guangzhou, Shanghai, and Beijing

Range of Average Reported Metric Data Volume (in million entries)	Price (USD)
0 - 200 million	$1.81 per million
200 - 800 million	$1.76 per million
800 - 1,500 million	$1.71 per million
Above 1,500 million	$1.70 per million

Finance zones in the Chinese mainland and outside the Chinese mainland (Hong Kong (China), Macao (China), Taiwan (China), and overseas), such as Hong Kong (China), Singapore, and Toronto

Range of Average Reported Metric Data Volume (in million entries)	Price (USD)
0 - 200 million	$3.61 per million
200 - 800 million	$3.51 per million
800 - 1,500 million	$3.42 per million
Above 1,500 million	$3.4 per million

Billing items

The pay-as-you-go cost for Prometheus depends on the amount of data reported by users. The unit price per amount of reported data varies depending on the storage duration.

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Definition of reported data amount: It is the total amount of metric data collected and reported. A single metric data includes the metric name, label set, sampling timestamp, and value. Metric data is logically organized in the timeline (Series) form.
Timeline (Series) Definition: It is composed of metric name and tag. The same metric name and tag constitute a unique timeline in the time series.
Example
Suppose you need to collect and report 10 types of node-level metrics, and your cluster contains 200 nodes. This will generate 2000 timelines (Series). If the data collection interval is 15 seconds, the daily reported data volume is:
Reported Data Volume = 2000 × (60 seconds × 60 minutes × 24 hours) / 15 seconds = 11.52 million
11.5 million falls in the first price range (0-200 million). The unit price for data storage for 15 days is $0.19, so **daily cost = 11.52 × 0.19 ≈ $2.18** (rounded to two decimal places).

Billing Examples

Example 1 (less than 200 million reported metric data entries)
Suppose 60 million entries of metric data are reported a day, and the data retention period is specified as 15 days, then the daily fees = 60 × 0.19 = 11.4 USD.
Note: “60” in the above formula indicates 60 million metric data entries.
Example 2 (more than 200 million reported metric data entries)
Suppose 900 million entries of metric data are reported a day, and the data retention period is specified as 30 days, then the daily fees are calculated in a tiered manner as follows:
For the first 200 million metric data entries, the fees = 200 x 0.25 = 50 USD
For the 200-800 million metric data entries, the fees = (800 - 200) x 0.2 =120 USD
For the 800-900 million metric data entries, the fees = (900 -800) x 0.12 = 12 USD
Therefore, the total fees = 50 + 120 + 12 = 182 USD
Note: “900” in the above formula indicates 900 million metric data entries.

Relevant Documentation

You can purchase TMP instances through the console. For more information, see Purchase Methods.
TMP sends alert messages to you before it expires and its resources are repossessed. For more information, see Payment Overdue.

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Billing Rules for Free Metrics Exceeding Free Storage Period

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TencentCloud Managed Service for Prometheus (TMP) will change the free metric storage period of pay-as-you-go instances as described in Free Metrics in Pay-as-You-Go Mode to **15 days** on **November 30, 2022**. **For TMP instances with storage period over 15 days, their metrics will be charged for the extra storage days**.

Note:

To check the free metrics you have used or streamline monitoring metrics to avoid unnecessary expenses, see Streamlining Monitoring Metrics.

Storage Pricing

Calculation formula

Storage fees = storage unit price * (data storage period - 15 days) * daily reported metric data volume in million entries

Settlement cycle

Fees are settled on a daily basis.

Storage unit price

Region	Unit Price (USD/million entries)
Non-finance zones in the Chinese mainland, such as Guangzhou, Shanghai, and Beijing	0.0015
Regions outside the Chinese mainland + finance zones in the Chinese mainland, such as Hong Kong (China), Singapore, and Shenzhen Finance	0.003

Note:

Data entry count less than one million will be calculated as one million.

Billing Example

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Let’s suppose a user has purchased a TMP instance in a non-finance zone in the Chinese mainland, the data storage period is 45 days, and the number of reported metric data entries is 10 million a day, then:
The storage fees for that day = 0.0015 * (45-15) * 10 = 0.45 USD

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Free Trial Introduction

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TencentCloud Managed Service for Prometheus (TMP) offers a 15-day free trial to help new users understand and use Prometheus. This trial is supported in multiple cities, both domestically and internationally. You are welcome to experience it.

Directions

1. log in to TMP Console.
2. On the Prometheus monitoring page, click **Free trial** to jump to the corresponding purchase page.
3. On the purchase page, fill in the required information, select terms and conditions, and click **Buy Now** to start the trial.

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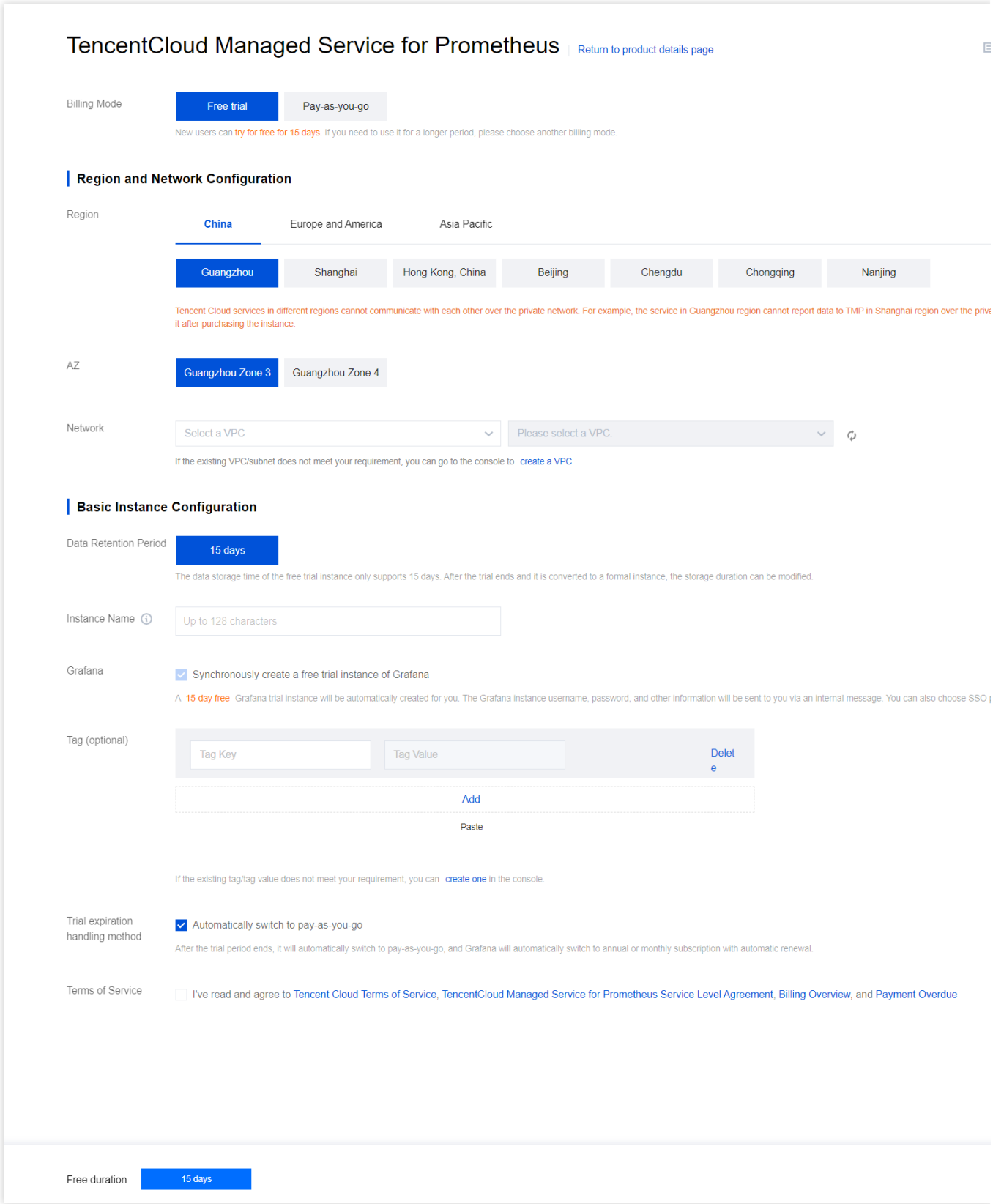

Configuration Instructions

Configuration Type	Configuration Item	Description

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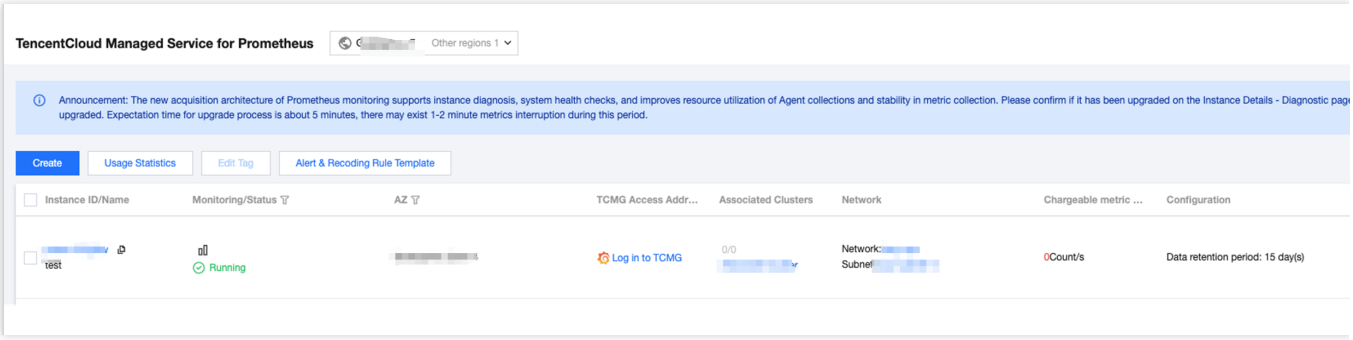
Billing mode	Free trial	New users can enjoy a 15-day free trial. If you need to use it for a longer period, please choose a different billing model.
Data storage duration	15 days	The data storage period for the free trial instance is limited to 15 days. After the trial and conversion to a formal instance, the storage duration can be modified.
Grafana	Create free trial Grafana instances simultaneously	Selected by default. A free 15-day Grafana trial instance will be automatically created for you. Grafana instance username, password, and other information will be sent to you via the Message Center. You can also choose SSO for password-free login.
Trial expiry handling method	Automatically convert to Pay-As-You-Go	Selected by default. The trial will automatically convert to a Pay-As-You-Go model after the trial, and Grafana will switch to an annual/monthly automatic renewal. If you deselect it manually, the service will be stopped upon expiration.

Note:

The maximum limit for Series of the free trial instance is 2 million, and the total data points reported per second cannot exceed 100,000. For more detailed limit descriptions, see Related Limits.

Instance Information

1. After successfully purchasing the instance, you can be redirected to the instance list page, as shown in the figure below:



2. Click the instance ID/name to enter the instance details page.

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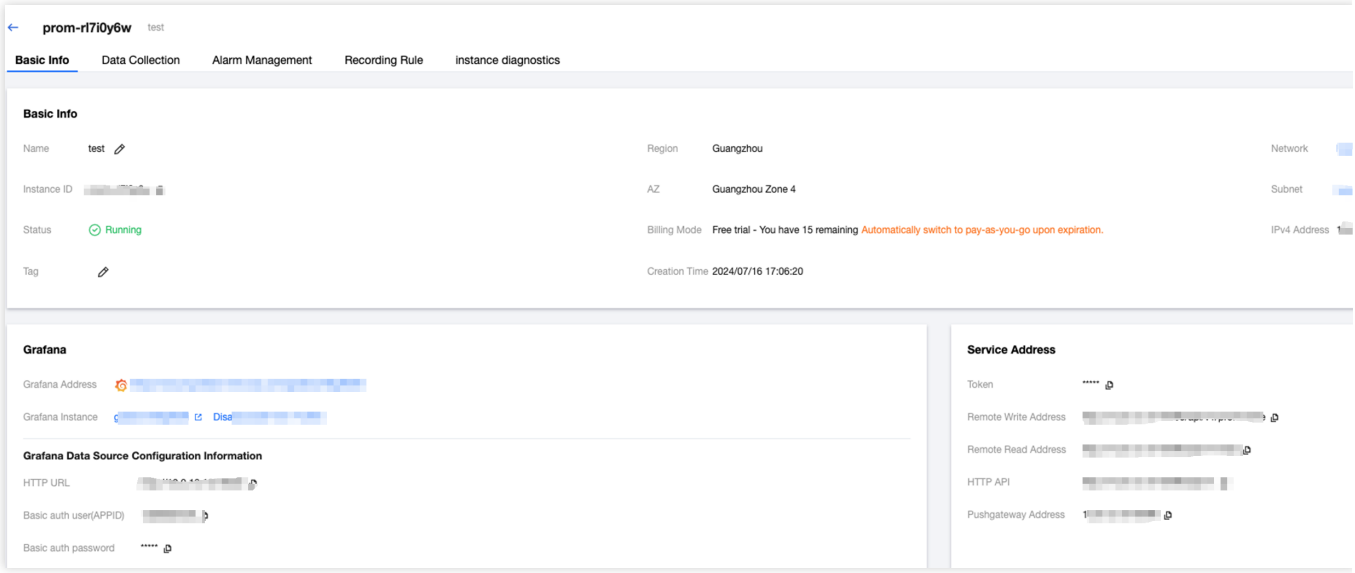

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Managed Collector Billing Introduction

Last updated：2024-07-30 18:14:31

Note:

Based on use cases, integration Tencent Kubernetes Engine (TKE) and integration center can be differentiated:

Integration TKE: Collector resources can be **free/discounted**.

Simultaneously collect containers free basic metrics and chargeable container metrics. The free collector resources are calculated based on the proportion of container free basic metrics data.

Calculation method: Free resource amount = Total collector resources used by integration containers × (Container free basic metrics data / Total container metrics data)

If only containers free basic metrics is collected, fees for collector resources used by integration TKE will not be charged.

Integration center: Charges are based on collector resources used by the integration type.

Billing Mode Description

Billing mode	Payment Mode
Pay-as-you-go (postpaid)	On-demand use. Fees will be charged based on your actual resource usage upon settlement.

Collector Pricing

Calculation Formula

Total cost = CPU usage (unit: cores) × Collector CPU unit price + Memory usage (unit: GiB) × Collector memory unit price

Billing Item Description

Billing Item	Description
Collector CPU	Cumulative calculation is based on the CPU usage and memory usage per hour.
Collector memory	

Fee Deduction Cycle

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Bill per hour. TMP sends a billing push and settles costs daily based on your resource usage in the previous hour.

Collector Price

Non-finance zones in the Chinese mainland, such as Guangzhou, Shanghai, and Beijing.

Billing Item Name	Price (USD)
Collector CPU	0.014 USD/Cores/Hour
Collector memory	0.006 USD/GiB/Hour

finance zones in the Chinese mainland + in the regions outside the Chinese mainland (Hong Kong (China), Macao (China), Taiwan (China), and overseas), such as Hong Kong (China) and Toronto

Billing Item Name	Price (USD)
Collector CPU	0.017 USD/Cores/Hour
Collector memory	0.007 USD/GiB/Hour

Billing Examples

Example 1:

Assuming a user in Guangzhou uses 2 CPU cores and 4 GiB of memory for an hour, the cost for this hour would be:**2 × 0.014 + 4 × 0.006 = $0.052**

Example 2:

Assuming a user in Hong Kong (China) uses 2 CPU cores and 4 GiB of memory for an hour, the cost for this hour would be:**2 × 0.017 + 4 × 0.007 = $0.062**

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Purchase Methods

Last updated：2024-01-29 15:55:08

This document describes how to purchase a TMP instance.

Prerequisite

You have signed up for a Tencent Cloud account and completed identity verification.

Pay-as-You-Go

1. Log in to the TMP purchase page and configure the following instance information.

Item	Description
Billing Mode	Select “pay-as-you-go”.
Region	Select the region where your business needs to be deployed. **Note:** Tencent Cloud services in different regions cannot communicate with each other over the private network; for example, a service in the Guangzhou region cannot report data to a TMP instance in the Shanghai region over the private network. Once an instance is purchased, the region cannot be changed. Therefore, you need to select the region with caution.
Availability Zone	Select an AZ supported by the region.
Network	VPC is supported. We recommend you choose the same VPC in the same region as your monitoring target. For more information, see Network Environment.
Data Retention Period	Select the data retention period. In the pay-as-you-go billing mode, fees are charged based on the daily reported metric data volume and the data retention period. For more information, see Product Pricing.
Instance Name	Enter an instance name.
Grafana Password/Confirm Password	Enter the password of Grafana that comes with the instance. The account is `admin` by default. **Note:** The password must begin with a letter or digit and contain at least one special symbol (`@$!%*#?&`), and its length should be between 6 and 24.

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Tag	Enter a tag for the instance (optional).
Validity Period	Select the validity period of the instance.

2. Read and indicate your consent to related terms of agreement, and then click **Buy Now**.
3. On the payment page, select a payment method and pay.
4. You can enter the instance list page after the purchase. The instance will be in **Creating** status, and you can use it after around 3-5 minutes when its status changes to **Running**.

Subsequent Operations

Quickly get started with TMP.

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Payment Overdue

Last updated：2024-01-29 15:55:08

Note:
If you are a customer of a Tencent Cloud partner, the rules regarding resources when there are overdue payments are subject to the agreement between you and the partner.

Alerting

From seven days before your resource expires until the resource is released, the system will send an alert to your Tencent Cloud account creator, global resource collaborators, and financial collaborators via email, SMS, and other methods as configured in the message subscription in the Message Center.
During this period, the alert will be sent once every day.

Repossession

You will receive renewal notifications from seven days before your TMP resource expires.
The resource can be used within seven days after it expires, during which you will receive expiration alerts. Please renew it as soon as possible.
From the eighth day after the resource expires, it will remain unavailable yet can be renewed, and instances will be suspended.
If you do not renew the resource **seven days after it becomes suspended**, it will be repossessed, and related data will be cleared and cannot be recovered.
In other words, the TMP resource will remain **available for seven days** after the expiration and become **unavailable for another seven days**. You can renew it within the 14 days. If your balance is sufficient and auto-renewal is enabled, the resource will be automatically renewed upon expiration.

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Free Metrics in Pay-as-You-Go Mode

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The metrics below are free of charge in the pay-as-you-go billing mode:

Metric Name
node_boot_time_seconds
node_context_switches_total
node_cpu_seconds_total
node_disk_io_now
node_disk_io_time_seconds_total
node_disk_io_time_weighted_seconds_total
node_disk_read_bytes_total
node_disk_read_time_seconds_total
node_disk_reads_completed_total
node_disk_write_time_seconds_total
node_disk_writes_completed_total
node_disk_written_bytes_total
node_filefd_allocated
node_filesystem_avail_bytes
node_filesystem_free_bytes
node_filesystem_size_bytes
node_load1
node_load15
node_load5
node_memory_Buffers_bytes
node_memory_Cached_bytes

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node_memory_MemAvailable_bytes
node_memory_MemFree_bytes
node_memory_MemTotal_bytes
node_netstat_TcpExt_ListenDrops
node_netstat_Tcp_ActiveOpens
node_netstat_Tcp_CurrEstab
node_netstat_Tcp_InSegs
node_netstat_Tcp_OutSegs
node_netstat_Tcp_PassiveOpens
node_network_receive_bytes_total
node_network_transmit_bytes_total
node_sockstat_TCP_alloc
node_sockstat_TCP_inuse
node_sockstat_TCP_tw
node_sockstat_UDP_inuse
node_sockstat_sockets_used
node_uname_info
container_cpu_usage_seconds_total
container_fs_limit_bytes
container_fs_reads_bytes_total
container_fs_usage_bytes
container_fs_writes_bytes_total
container_memory_working_set_bytes
container_network_receive_bytes_total
container_network_receive_packets_dropped_total

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container_network_receive_packets_total
container_network_transmit_bytes_total
container_network_transmit_packets_dropped_total
container_network_transmit_packets_total
machine_cpu_cores
machine_memory_bytes
kubelet_cgroup_manager_duration_seconds_count
kubelet_node_config_error
kubelet_node_name
kubelet_pleg_relist_duration_seconds_bucket
kubelet_pleg_relist_duration_seconds_count
kubelet_pleg_relist_interval_seconds_bucket
kubelet_pod_start_duration_seconds_count
kubelet_pod_worker_duration_seconds_count
kubelet_running_containers
kubelet_running_pods
kubelet_runtime_operations_duration_seconds_bucket
kubelet_runtime_operations_errors_total
kubelet_runtime_operations_total
process_cpu_seconds_total
process_resident_memory_bytes
rest_client_request_duration_seconds_bucket
rest_client_requests_total
storage_operation_duration_seconds_bucket
storage_operation_duration_seconds_count

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storage_operation_errors_total
volume_manager_total_volumes
kube_job_status_succeeded
kube_job_status_failed
kube_job_status_active
kube_node_status_capacity_cpu_cores
kube_node_status_capacity_memory_bytes
kube_node_status_allocatable_cpu_cores
kube_node_status_allocatable_memory_bytes
kube_pod_info
kube_pod_owner
kube_pod_status_phase
kube_pod_container_status_waiting
kube_pod_container_status_running
kube_pod_container_status_terminated
kube_pod_container_status_restarts_total
kube_pod_container_resource_requests_cpu_cores
kube_pod_container_resource_requests_memory_bytes
kube_pod_container_resource_limits_cpu_cores
kube_pod_container_resource_limits_memory_bytes
kube_statefulset_status_replicas
rest_client_request_duration_seconds_bucket
rest_client_requests_total
workqueue_adds_total
workqueue_depth

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workqueue_queue_duration_seconds_bucket
apiserver_current_inflight_requests
apiserver_current_inqueue_requests
apiserver_init_events_total
apiserver_longrunning_gauge
apiserver_registered_watchers
apiserver_request_duration_seconds_bucket
apiserver_request_duration_seconds_sum
apiserver_request_duration_seconds_count
apiserver_request_filter_duration_seconds_bucket
apiserver_request_filter_duration_seconds_sum
apiserver_request_filter_duration_seconds_count
apiserver_request_total
apiserver_requested_deprecated_apis
apiserver_response_sizes_bucket
apiserver_response_sizes_sum
apiserver_response_sizes_count
apiserver_selfrequest_total
apiserver_tls_handshake_errors_total
apiserver_watch_events_sizes
apiserver_watch_events_sizes_bucket
apiserver_watch_events_sizes_sum
apiserver_watch_events_sizes_count
apiserver_watch_events_total
gpu_core_usage

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gpu_core_utilization_percentage
gpu_mem_usage
gpu_mem_utilization_percentage
pod_core_occupy_node_percentage
pod_core_usage
pod_core_utilization_percentage
pod_mem_occupy_node_percentage
pod_mem_request
pod_mem_usage
pod_mem_utilization_percentage
container_core_usage
container_core_utilization_percentage
container_mem_usage
container_mem_utilization_percentage

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Pay-as-You-Go — Unit Price for One-Year/Two-Year Data Storage

Last updated：2024-01-29 15:55:08

TencentCloud Managed Service for Prometheus (TMP) instances are billed based on the period of data storage. The billing rules for one-year and two-year data storage only differ in the unit price, as described below. For more billing rules, see Pay-as-You-Go.

Instance Price

Unit price for one-year data storage

Non-finance zones in the Chinese mainland, such as Guangzhou, Shanghai, and Beijing

Range of Average Reported Metric Data Volume (in million entries)	Unit Price (USD)
0-200	0.83
200-800	0.79
800-1,500	0.75
Above 1,500	0.74

Regions outside the Chinese mainland + finance zones in the Chinese mainland, such as Hong Kong (China), Singapore, and Shenzhen Finance

Range of Average Reported Metric Data Volume (in million entries)	Unit Price (USD)
0-200	1.65
200-800	1.57
800-1,500	1.49
Above 1,500	1.47

Unit price for two-year data storage

Non-finance zones in the Chinese mainland, such as Guangzhou, Shanghai, and Beijing

Range of Average Reported Metric Data Volume (in million entries)	Unit Price (USD)

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0-200	1.81
200-800	1.76
800-1,500	1.71
Above 1,500	1.7

Regions outside the Chinese mainland + finance zones in the Chinese mainland, such as Hong Kong (China), Singapore, and Shenzhen Finance

Range of Average Reported Metric Data Volume (in million entries)	Unit Price (USD)
0-200	3.61
200-800	3.51
800-1,500	3.42
Above 1,500	3.4

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