Billing for Azure Stack Usage

Azure Stack Product Group - February 2019

This document is written for Cloud Service Providers who want to bill their end customers for Azure Stack usage. It explains how Azure Stack usage is collected and processed, as well as describes your options for sending usage data to your billing system.

Contents

[Overview: how usage is reported 1](#_Toc2866685)

[From Azure Stack meters to Azure meters 2](#_Toc2866686)

[Meter mapping 2](#_Toc2866687)

[Interesting local meters, part 1: VM Meters 3](#_Toc2866688)

[Interesting local meters, part 2: Managed Disks 4](#_Toc2866689)

[Subscription mapping 4](#_Toc2866690)

[Timestamp mapping 4](#_Toc2866691)

[The AdditionalInfo field 4](#_Toc2866692)

[Connecting Azure Stack to your billing system 5](#_Toc2866693)

[Appendix 7](#_Toc2866694)

[Meter mappings 7](#_Toc2866695)

# Overview: how usage is reported

You pay for your Azure Stack usage through an Azure subscription. To make this possible, usage data is sent from Azure Stack to Azure. In Azure, the commerce system processes the usage data and generates the bill. The process has several steps, and it helps to be aware of them before you decide how you will bill your users. So, let us walk through the process (see also Figure 1).

Each Azure Stack Resource Provider (RP) generates usage information for the resources it manages. This information is collected by the Usage Collection Service and stored in the local Usage Database, a SQL Server database that provides persistent storage (assuming sufficient space is available, usage information will be kept for 180 days). This database can be queried using the [Azure Stack Usage APIs](https://docs.microsoft.com/en-us/azure/azure-stack/azure-stack-provider-resource-api) – but we do not advice that you rely on them for billing (see more on this topic [below](#_Connecting_Azure_Stack)).

About once per hour, Usage Bridge will establish a connection to Azure, and forward any new usage data to a service called Usage Gateway (sometimes improperly called Usage Gateway, for Azure Stack Resource Provider).

Usage Gateway makes some modifications to the data to make it consumable by Azure commerce. These are described in detail in the next section. Then, the usage data is finally submitted to Azure commerce. Up to this point, the usage data has been quantities consumed only. Azure commerce now applies prices, discounts, and currency conversions. The Partner Center portal and the [Partner Center APIs](https://docs.microsoft.com/en-us/partner-center/develop/) are your windows into Azure commerce – there you see what you are billed for.

A screenshot of a cell phone

Description automatically generated

Figure : How Azure Stack usage is reported.

# From Azure Stack meters to Azure meters

We will talk about meters and usage records a lot, so what are they? Meters are used by Azure and Azure Stack to track a resource’s usage throughout its lifetime. These meters are then used to calculate the bill.

When you create an Azure Stack resource, like a virtual machine, it has one or more meter instances created. Meters are used to track the usage of the resource over time. Each meter emits usage records that are used by Azure to calculate the bill. The usage records track the quantity used and the local subscription that used the resource.

This section describes in detail how the Usage Gateway service modifies the information forwarded from Azure Stack before submitting it to Azure commerce.

Usage Gateway does three main things:

* Meter mapping
* Subscription mapping
* Timestamp mapping.

## Meter mapping

The Azure Stack meter IDs (used by the Usage Collection Service on Azure Stack) are different from the meter IDs used by Azure commerce. Usage Gateway translates local meter IDs to commerce IDs. The original meter IDs are not lost; they are moved to the AdditionalInfo field, where they can be found as AzureStack.MeterID.

Some meters are generated locally to facilitate usage analysis, but Microsoft does not bill for them. These meters are simply ignored, and you will find no trace of them in Azure commerce reports.

Most Azure commerce meters come in pairs, an Admin meter and a Regular one. Admin meters are emitted by Usage Gateway when a resource was created on an admin subscription in Azure Stack, and their price is always $0 (they are free). Admin subscriptions are used to deploy Resource Providers. Resource Providers are charged based on the meters they emit; for example, the AppService RP emits its own vCPU meters; Microsoft does not charge for the VMs and storage accounts in which AppService runs. Hence, be careful not to deploy tenant workloads on admin subscriptions – this would be a violation of licensing rules.

Regular meters are emitted by normal tenant workloads running on tenant subscriptions: for example, VMs created by a tenant. They are charged at the prices documented in the [pricing page](https://azure.microsoft.com/en-us/overview/azure-stack/how-to-buy/).

Here are some pointers to reference materials:

* A full list of meter mappings is in the [Appendix](#_Meter_mappings).
* A list of Azure Stack local meters can be found here: <https://docs.microsoft.com/en-us/azure/azure-stack/azure-stack-usage-related-faq#what-meter-ids-can-i-see>
* You can find a current list of Azure meters in the Partner Center dashboard, under Sell > Pricing and offers. In the Usage-based services section of this page, you will find downloadable Excel spreadsheets with the current list of meters (and their prices). To quickly identify the meters for Azure Stack services, filter the spreadsheet to Region = Azure Stack.

Let us now turn our attention to a few important local meters of which you should be aware.

### Interesting local meters, part 1: VM Meters

Azure Stack has 3 possible VM meters. Two meters are emitted for each VM that is running. Here is how it works:

|  |  |  |
| --- | --- | --- |
| VM size hours | 6DAB500F-A4FD-49C4-956D-229BB9C8C79 | This meter is emitted for every VM in Azure Stack. One unit of this meter represents one hour of running time, irrespective of VM size. |
| Windows VM size hour | 9CD92D4C-BAFD-4492-B278-BEDC2DE8232A | This meter is emitted for Windows VMs. One unit of this meter represents one virtual core/hour of running time, irrespective of VM size. So, if a VM has 4 virtual cores, and it runs for an hours, this meter will report 4 units. |
| Base VM size hours | FAB6EB84-500B-4A09-A8CA-7358F8BBAEA5 | This meter is emitted for Linux VMs and for Windows “BYOL” VMs[[1]](#footnote-2). Just like the Windows VM meter, it counts virtual core/hours. |

### Interesting local meters, part 2: Managed Disks

Managed Disks on Azure Stack can be Standard or Premium, and emit distinct meters depending on type. Both types, however, have the same price. For this reason, local managed disk meters come in Standard and Premium types, but in Commerce, there is only the Managed (M) type. So, for example, Azure Stack will emit an S4 or P4 meter for a 32GB managed disk, and in your Azure bill, you will see a charge for an M4 managed disk.

The rationale is that the difference between the two types is in the hardware they utilize. Since it is the customer who provides the hardware, the software charge can be the same for both types of disks.

## Subscription mapping

The usage records emitted by Azure Stack contain the ID of the local Azure Stack subscription that used the resources. Local subscriptions are only recognized by Azure Stack; Azure commerce does not recognize them. Usage Gateway therefore will replace the local subscription with an Azure subscription ID.

Which one exactly? This is what you define with the registration process. When you first register Azure Stack, you provide an Azure subscription associated with you, the Azure Stack operator. This becomes the default subscription for your Azure Stack – if usage coming from your Azure Stack cannot be associated with any other subscription, it will go this default subscription. You can also [add tenant mappings](https://docs.microsoft.com/en-us/azure/azure-stack/azure-stack-csp-ref-operations) to your registration; these say that usage coming from a certain tenant should be directed to a certain Azure subscription.

The original local subscription is not lost; it is moved to the AdditionalInfo field, in AzureStack.SubscriptionId.

## Timestamp mapping

Azure commerce verifies the timestamp of usage records and rejects records that are older than a certain time. Azure Stack records can be days or weeks old: Azure Stack can function without a connection to the Internet, and usage information is just accumulated locally until it is possible to send it to Azure. Usage Gateway therefore changes the timestamp of the usage record to be the current time.

## The AdditionalInfo field

We have already mentioned AdditionalInfo a couple of times. This field contains information that is not used for billing, but may be interesting to know; in particular, Azure Stack uses it to save original information before it is edited by Usage Gateway. Some of the information you will find in AdditionalInfo includes:

|  |  |
| --- | --- |
| AzureStack.MeterId | The local meter id, see [this page](https://docs.microsoft.com/en-us/azure/azure-stack/azure-stack-usage-related-faq#what-meter-ids-can-i-see) for a list. |
| AzureStack.SubscriptionType | “Admin” indicates that the resource was deployed on the admin subscription in Azure Stack and will not be charged.  All other are either “Tenant” or the information is omitted. |
| AzureStack.BillingModel | Possible values:   * Development, if the sending Azure Stack is an ASDK (single node, test edition). * PreCapacity, if the sending Azure Stack is an integrated system registered as Pay As You Go. |
| AzureStack.SubscriptionId | The local subscription that consumed the resources. |
| AzureStack.CloudId | The CloudId of the Azure Stack deployment. |
| AzureStack.Location | The name of the originating Azure Stack region. This can help you distinguish between Azure Stacks that are registered to the same Azure subscription. |
| AzureStack.EventDateTime | **Note**: this value will be deprecated in the future. Please do not use it.  The original timestamp of the usage record; this represents the time when the usage happened on Azure Stack. |
| ServiceType | For VMs, the VM size. |
| ImageType | If the value is Window Server, this identifies a Windows Server image that emits Base VM meters because it is licensed with “bring your own license”. This can be the case if your organization buys Windows Server SPLA licenses for the Azure Stack system. |
| Publisher  Offer  SKU | These values identify VMs deployed from marketplace images. |

Please note that new values may appear, for example when new services become available, and existing values may be discontinued in the future.

# Connecting Azure Stack to your billing system

Let us summarize what information is emitted at which stage:

* Azure Stack emits information about which subscriptions consumed which resources. Azure Stack does not have information about resource prices (the prices you will charge to your tenants), and it does not contain any of the personal information needed for billing (the name of the person who will receive the invoice, his/her address, etc.).
* Azure commerce adds the prices that Microsoft will charge to you, the CSP (Cloud Service Provider). Azure commerce will only bill the CSP, not the end customer. It is up to the CSP to bill its end customers.

The assumption is that you already have a billing system through which your produce your invoices to your end customers. The billing system will contain the prices that you charge to end customers and the contact information for your customers.

We also assume that your system can accept simple CSV (comma separated values) as inputs.

So, connecting Azure Stack to your billing system is as simple as generating a CSV file containing the list of customers who have used Azure Stack and the resources used.

You do need to make one important decision, though: at which stage of the usage pipeline will you extract the data for your billing system? From the Azure Stack Usage DB, using the local usage API, or from Azure commerce?

Our recommendation is to **bill based on usage data from Azure whenever possible**. This has several advantages:

* Fewer data sources: if your organization resells Azure as well as Azure Stack, you will need to bill based on Azure usage data, and Azure Stack would an additional data source to handle.
* If you have more than one stamp, the Azure data will consolidate them for you. If you rely on local usage data, you have to pull it from each stamp in sequence.
* Local Azure Stack subscriptions are aggregated to the tenant they belong to: for example, if you Fabricam is one of your customers, and it uses three local subscriptions, the Azure usage data will aggregate the three local subscriptions to the Fabricam Azure subscription.
* Azure usage data comes complete with the price that Microsoft charges to your organization, which makes pricing very simple if your price is a markup of the Microsoft price. You do not need to create your price list and apply it; instead, just multiply the Microsoft charge by your markup rate.

The only situation in which you should bill based on local usage data is if you absolutely need the meters that are available from the local usage API and not from Azure.

What you should avoid is designing a system which tries to match usage between local and Azure reports. The reason is that, in any given period, you are likely to find some differences between the two reports. This is due to the delays implicit in transmitting the usage information through the usage pipeline: usage that happens close to a time boundary, for example at the end of the day, can be reported on the day in which it happens or the following day. The differences are likely to be small and will average out over time, but if you depend on finding an exact match, they will be maddening!

# Appendix

## Meter mappings: Azure Stack to Azure global cloud

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Resource Provider** | **Local Meter ID:** | **Name** | **Unit** | **Azure meter ID - regular** | **Azure meter ID - admin** |
| Network | f271a8a388c44d93956a063e1d2fa80b | Static IP Address Usage | IP addresses | none | none |
| 9e2739ba86744796b465f64674b822ba | Dynamic IP Address Usage | IP addresses | none | none |
| Storage | b4438d5d-453b-4ee1-b42a-dc72e377f1e4 | TableCapacity | GB\*hours | 5849dc2e-ac2e-489f-a53c-b2dfb0f5bdff | daa83056-2903-4286-826b-564f3037bf61 |
| b5c15376-6c94-4fdd-b655-1a69d138aca3 | PageBlobCapacity | GB\*hours | 0c1fecb6-52d8-4130-bbfa-f79e6a5b056d | 44ca5145-137d-4740-9845-b08784206c45 |
| b03c6ae7-b080-4bfa-84a3-22c800f315c6 | QueueCapacity | GB\*hours | 5bfe1d6a-bdf3-4cfe-8d36-a1c8e4734921 | 8e9d8811-9f3d-4567-8258-0ba581c143b8 |
| 09f8879e-87e9-4305-a572-4b7be209f857 | BlockBlobCapacity | GB\*hours | 8a913f38-33b4-4772-9488-e89522fc09e5 | 8767aeb3-6909-4db2-9927-3f51e9a9085e |
| b9ff3cd0-28aa-4762-84bb-ff8fbaea6a90 | TableTransactions | Request count (10,000s) | none | none |
| 50a1aeaf-8eca-48a0-8973-a5b3077fee0d | TableDataTransIn | Ingress data in GB | none | none |
| 1b8c1dec-ee42-414b-aa36-6229cf199370 | TableDataTransOut | Egress in GB | none | none |
| 43daf82b-4618-444a-b994-40c23f7cd438 | BlobTransactions | Requests count in 10,000's | none | none |
| 9764f92c-e44a-498e-8dc1-aad66587a810 | BlobDataTransIn | Ingress data in GB | none | none |
| 3023fef4-eca5-4d7b-87b3-cfbc061931e8 | BlobDataTransOut | Egress in GB | none | none |
| eb43dd12-1aa6-4c4b-872c-faf15a6785ea | QueueTransactions | Requests count in 10,000's | none | none |
| e518e809-e369-4a45-9274-2017b29fff25 | QueueDataTransIn | Ingress data in GB | none | none |
| dd0a10ba-a5d6-4cb6-88c0-7d585cef9fc2 | QueueDataTransOut | Egress in GB | none | none |
| Compute | fab6eb84-500b-4a09-a8ca-7358f8bbaea5 | Base VM Size Hours | Virtual core hours | 7bc19779-56bc-474d-8c88-36fbd79ae004 | 3e59e16d-a651-4979-a727-423969613c6b |
| 9cd92d4c-bafd-4492-b278-bedc2de8232a | Windows VM Size Hours | Virtual core hours | fb8c0713-ea20-40bf-901f-5560fd3f6330 | d30b4825-579c-4463-a83e-cbd0e04dff81 |
| 6dab500f-a4fd-49c4-956d-229bb9c8c793 | VM size hours | VM hours | none | none |
| Managed Disks | 380874f9-300c-48e0-95a0-d2d9a21ade8f | S4 | Count of Disks\*month | 104353b2-b049-4af1-a163-55b035058d7c | 2bdcdfd9-9284-4804-a9a5-d133f2c975be |
| 1b77d90f-427b-4435-b4f1-d78adec53222 | S6 | Count of Disks\*month | 0926ac9c-5787-4bec-bd44-0da95eb5d41b | 5786306e-dc19-4b70-9a63-b3678ff23c3b |
| d5f7731b-f639-404a-89d0-e46186e22c8d | S10 | Count of Disks\*month | 41884b29-c1cd-4fcb-a63d-24cce4bfb7e1 | ad230702-11da-4491-a839-c36a8d9fe920 |
| ff85ef31-da5b-4eac-95dd-a69d6f97b18a | S15 | Count of Disks\*month | a2cbe3d4-cdb1-41a8-9e0e-25496cee0baa | 07a1fb51-464c-4b88-aa57-fdc0f6a4db8d |
| 88ea9228-457a-4091-adc9-ad5194f30b6e | S20 | Count of Disks\*month | 3cc3ef34-70ea-4e96-b874-ba9cd48d83d0 | 7be3d97a-4420-45f3-b175-987776ef5cfd |
| 5b1db88a-8596-4002-8052-347947c26940 | S30 | Count of Disks\*month | 8b251e8f-ce5e-4a58-a6e5-2b8f0d176e3a | 14286b46-fc19-480d-9096-cfdb96e39ebe |
| 7660b45b-b29d-49cb-b816-59f30fbab011 | P4 | Count of Disks\*month | 104353b2-b049-4af1-a163-55b035058d7c | 2bdcdfd9-9284-4804-a9a5-d133f2c975be |
| 817007fd-a077-477f-bc01-b876f27205fd | P6 | Count of Disks\*month | 0926ac9c-5787-4bec-bd44-0da95eb5d41b | 5786306e-dc19-4b70-9a63-b3678ff23c3b |
| e554b6bc-96cd-4938-a5b5-0da990278519 | P10 | Count of Disks\*month | 41884b29-c1cd-4fcb-a63d-24cce4bfb7e1 | ad230702-11da-4491-a839-c36a8d9fe920 |
| cdc0f53a-62a9-4472-a06c-e99a23b02907 | P15 | Count of Disks\*month | a2cbe3d4-cdb1-41a8-9e0e-25496cee0baa | 07a1fb51-464c-4b88-aa57-fdc0f6a4db8d |
| b9cb2d1a-84c2-4275-aa8b-70d2145d59aa | P20 | Count of Disks\*month | 3cc3ef34-70ea-4e96-b874-ba9cd48d83d0 | 7be3d97a-4420-45f3-b175-987776ef5cfd |
| 06bde724-9f94-43c0-84c3-d0fc54538369 | P30 | Count of Disks\*month | 8b251e8f-ce5e-4a58-a6e5-2b8f0d176e3a | 14286b46-fc19-480d-9096-cfdb96e39ebe |
| 7ba084ec-ef9c-4d64-a179-7732c6cb5e28 | ActualStandardDiskSize | GB\*month | none | none |
| daef389a-06e5-4684-a7f7-8813d9f792d5 | ActualPremiumDiskSize | GB\*month | none | none |
| 108fa95b-be0d-4cd9-96e8-5b0d59505df1 | ActualStandardSnapshotSize | GB\*month | 4a02ff0e-8b58-4635-89cd-3d36cf8c8b02 | dfa973ea-f383-4d29-af6c-ccbf6767648c |
| 578ae51d-4ef9-42f9-85ae-42b52d3d83ac | ActualPremiumSnapshotSize | GB\*month | 4a02ff0e-8b58-4635-89cd-3d36cf8c8b02 | dfa973ea-f383-4d29-af6c-ccbf6767648c |
| Managed Disks -  Deprecated | 5d76e09f-4567-452a-94cc-7d1f097761f0 | S4 (Deprecated) | Count of Disks\*hours | none | none |
| dc9fc6a9-0782-432a-b8dc-978130457494 | S6 (Deprecated) | Count of Disks\*hours | none | none |
| e5572fce-9f58-49d7-840c-b168c0f01fff | S10 (Deprecated) | Count of Disks\*hours | none | none |
| 9a8caedd-1195-4cd5-80b4-a4c22f9302b8 | S15 (Deprecated) | Count of Disks\*hours | none | none |
| 5938f8da-0ecd-4c48-8d5a-c7c6c23546be | S20 (Deprecated) | Count of Disks\*hours | none | none |
| 7705a158-bd8b-4b2b-b4c2-0782343b81e6 | S30 (Deprecated) | Count of Disks\*hours | none | none |
| 5c105f5f-cbdf-435c-b49b-3c7174856dcc | P4 (Deprecated) | Count of Disks\*hours | none | none |
| 518b412b-1927-4f25-985f-4aea24e55c4f | P6 (Deprecated) | Count of Disks\*hours | none | none |
| 5cfb1fed-0902-49e3-8217-9add946fd624 | P10 (Deprecated) | Count of Disks\*hours | none | none |
| 8de91c94-f740-4d9a-b665-bd5974fa08d4 | P15 (Deprecated) | Count of Disks\*hours | none | none |
| c7e7839c-293b-4761-ae4c-848eda91130b | P20 (Deprecated) | Count of Disks\*hours | none | none |
| 9f502103-adf4-4488-b494-456c95d23a9f | P30 (Deprecated) | Count of Disks\*hours | none | none |
| 8a409390-1913-40ae-917b-08d0f16f3c38 | ActualStandardDiskSize (Deprecated) | Byte\*hours | none | none |
| 1273b16f-8458-4c34-8ce2-a515de551ef6 | ActualPremiumDiskSize (Deprecated) | Byte\*hours | none | none |
| 89009682-df7f-44fe-aeb1-63fba3ddbf4c | ActualStandardSnapshotSize (Deprecated) | Byte\*hours | none | none |
| 95b0c03f-8a82-4524-8961-ccfbf575f536 | ActualPremiumSnapshotSize (Deprecated) | Byte\*hours | none | none |
| Sql RP | cbcfef9a-b91f-4597-a4d3-01fe334bed82 | DatabaseSizeHourSqlMeter | MB\*hours | none | none |
| MySql RP | e6d8cfcd-7734-495e-b1cc-5ab0b9c24bd3 | DatabaseSizeHourMySqlMeter | MB\*hours | none | none |
| Key Vault | ebf13b9f-b3ea-46fe-bf54-396e93d48ab4 | Key Vault transactions | Request count in 10,000's | none | none |
| Key Vault | 2c354225-b2fe-42e5-ad89-14f0ea302c87 | Advanced keys transactions | 10K transactions | none | none |
| App service | 190c935e-9ada-48ff-9ab8-56ea1cf9adaa | App Service | Virtual core hours | 190c935e-9ada-48ff-9ab8-56ea1cf9adaa | dba5e57a-99ce-4843-b7a6-1d70f36fa1a1 |
| App service | 67cc4afc-0691-48e1-a4b8-d744d1fedbde | Functions Requests | 10 Requests | none | none |
| App service | d1d04836-075c-4f27-bf65-0a1130ec60ed | Functions - Compute | GB-s | none | none |
| App service | 957e9f36-2c14-45a1-b6a1-1723ef71a01d | Shared App Service Hours | 1 hour | none | none |
| App service | 539cdec7-b4f5-49f6-aac4-1f15cff0eda9 | Free App Service Hours | 1 hour | none | none |
| App service | 88039d51-a206-3a89-e9de-c5117e2d10a6 | Small Standard App Service Hours | 1 hour | none | none |
| App service | 83a2a13e-4788-78dd-5d55-2831b68ed825 | Medium Standard App Service Hours | 1 hour | none | none |
| App service | 1083b9db-e9bb-24be-a5e9-d6fdd0ddefe6 | Large Standard App Service Hours | 1 hour | none | none |
| AppService - Custom Worker Tiers | custom worker tiers (deterministic meter id is created based on sku and custom worker tier name. this meter id is unique for each custom worker tier). | Custom Worker Tiers | Hours | none | none |
| 264acb47-ad38-47f8-add3-47f01dc4f473 | SNI SSL | Per SNI SSL Binding | none | none |
| 60b42d72-dc1c-472c-9895-6c516277edb4 | IP SSL | Per IP Based SSL Binding | none | none |
| 73215a6c-fa54-4284-b9c1-7e8ec871cc5b | Web Process |  | none | none |
| 5887d39b-0253-4e12-83c7-03e1a93dffd9 | External Egress Bandwidth | GB | none | none |

## Meter mappings: Azure Stack to Azure China cloud

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Resource Provider** | **Local Meter ID:** | **Name** | **Unit** | **Azure China meter ID - Regular** | **Azure China meter ID - Admin** |
| Network | f271a8a388c44d93956a063e1d2fa80b | Static IP Address Usage | IP addresses | none | none |
| 9e2739ba86744796b465f64674b822ba | Dynamic IP Address Usage | IP addresses | none | none |
| Storage | b4438d5d-453b-4ee1-b42a-dc72e377f1e4 | TableCapacity | GB\*hours | 194728d8-095f-4491-84c3-bebdd2d00b06 | d110c084-f3ae-4b01-ac61-26d07a679753 |
| b5c15376-6c94-4fdd-b655-1a69d138aca3 | PageBlobCapacity | GB\*hours | e7b9d688-d4b9-4e7a-9b6b-76f1fa1315f1 | a5e60bd5-2c7d-410b-ab64-274d5eac0ef3 |
| b03c6ae7-b080-4bfa-84a3-22c800f315c6 | QueueCapacity | GB\*hours | 49312c1a-5afc-4e84-8d55-c4247d215eca | 1d1cd572-9582-4329-89f9-116834e3638b |
| 09f8879e-87e9-4305-a572-4b7be209f857 | BlockBlobCapacity | GB\*hours | 882938b7-889d-4931-96d2-99d0c17dddbf | 38bf1a34-d59a-4077-a3d6-1e333fea569f |
| b9ff3cd0-28aa-4762-84bb-ff8fbaea6a90 | TableTransactions | Request count (10,000s) | none | none |
| 50a1aeaf-8eca-48a0-8973-a5b3077fee0d | TableDataTransIn | Ingress data in GB | none | none |
| 1b8c1dec-ee42-414b-aa36-6229cf199370 | TableDataTransOut | Egress in GB | none | none |
| 43daf82b-4618-444a-b994-40c23f7cd438 | BlobTransactions | Requests count in 10,000's | none | none |
| 9764f92c-e44a-498e-8dc1-aad66587a810 | BlobDataTransIn | Ingress data in GB | none | none |
| 3023fef4-eca5-4d7b-87b3-cfbc061931e8 | BlobDataTransOut | Egress in GB | none | none |
| eb43dd12-1aa6-4c4b-872c-faf15a6785ea | QueueTransactions | Requests count in 10,000's | none | none |
| e518e809-e369-4a45-9274-2017b29fff25 | QueueDataTransIn | Ingress data in GB | none | none |
| dd0a10ba-a5d6-4cb6-88c0-7d585cef9fc2 | QueueDataTransOut | Egress in GB | none | none |
| Compute | fab6eb84-500b-4a09-a8ca-7358f8bbaea5 | Base VM Size Hours | Virtual core hours | 69201a36-f7a2-4906-9f83-261041c15182 | cd32d185-043d-4941-8a4e-c112e5358010 |
| 9cd92d4c-bafd-4492-b278-bedc2de8232a | Windows VM Size Hours | Virtual core hours | 79221788-4f9c-44e1-93c5-776cb91a05f5 | e2bdb0bc-7669-4377-9b58-618cb590da1d |
| 6dab500f-a4fd-49c4-956d-229bb9c8c793 | VM size hours | VM hours | none | none |
| Managed Disks | 380874f9-300c-48e0-95a0-d2d9a21ade8f | S4 | Count of Disks\*month | 1803ca04-4260-41d2-90ce-6e6ef3c626f6 | d941657b-7111-41d2-b4ad-0578a73bf65f |
| 1b77d90f-427b-4435-b4f1-d78adec53222 | S6 | Count of Disks\*month | 9f462cd1-9106-4e26-9e2c-05f85a693f49 | 63108b08-1aaf-40e5-8fd6-50a7fe58482f |
| d5f7731b-f639-404a-89d0-e46186e22c8d | S10 | Count of Disks\*month | 9056e3d8-20bd-4c69-9a57-f489fbbe98f5 | d64b702b-cd8b-42bb-a411-2220b94ec7aa |
| ff85ef31-da5b-4eac-95dd-a69d6f97b18a | S15 | Count of Disks\*month | 53a1814c-6323-4ccf-8ffc-4f70e8d11ff6 | 1ebe1798-1c3e-4526-a754-ca0f72bf2d23 |
| 88ea9228-457a-4091-adc9-ad5194f30b6e | S20 | Count of Disks\*month | a55a4b47-09e7-4290-9bff-fb460eb6ed97 | 8aa00d77-8328-4dca-8f46-6ce85a5b7944 |
| 5b1db88a-8596-4002-8052-347947c26940 | S30 | Count of Disks\*month | 75ccc67d-e8cf-41f5-b617-0afca49db05c | 7e046a14-3579-4f53-afec-6c8c3111086b |
| 7660b45b-b29d-49cb-b816-59f30fbab011 | P4 | Count of Disks\*month | 1803ca04-4260-41d2-90ce-6e6ef3c626f6 | d941657b-7111-41d2-b4ad-0578a73bf65f |
| 817007fd-a077-477f-bc01-b876f27205fd | P6 | Count of Disks\*month | 63108b08-1aaf-40e5-8fd6-50a7fe58482f | 63108b08-1aaf-40e5-8fd6-50a7fe58482f |
| e554b6bc-96cd-4938-a5b5-0da990278519 | P10 | Count of Disks\*month | 9056e3d8-20bd-4c69-9a57-f489fbbe98f5 | d64b702b-cd8b-42bb-a411-2220b94ec7aa |
| cdc0f53a-62a9-4472-a06c-e99a23b02907 | P15 | Count of Disks\*month | 53a1814c-6323-4ccf-8ffc-4f70e8d11ff6 | 1ebe1798-1c3e-4526-a754-ca0f72bf2d23 |
| b9cb2d1a-84c2-4275-aa8b-70d2145d59aa | P20 | Count of Disks\*month | a55a4b47-09e7-4290-9bff-fb460eb6ed97 | 8aa00d77-8328-4dca-8f46-6ce85a5b7944 |
| 06bde724-9f94-43c0-84c3-d0fc54538369 | P30 | Count of Disks\*month | 75ccc67d-e8cf-41f5-b617-0afca49db05c | 7e046a14-3579-4f53-afec-6c8c3111086b |
| 7ba084ec-ef9c-4d64-a179-7732c6cb5e28 | ActualStandardDiskSize | GB\*month | none | none |
| daef389a-06e5-4684-a7f7-8813d9f792d5 | ActualPremiumDiskSize | GB\*month | none | none |
| 108fa95b-be0d-4cd9-96e8-5b0d59505df1 | ActualStandardSnapshotSize | GB\*month | 8b56a795-0623-4a81-93b8-5b6d4c4ecb7c | 5b607fbe-1eca-4f73-9dd4-77af2809d6ad |
| 578ae51d-4ef9-42f9-85ae-42b52d3d83ac | ActualPremiumSnapshotSize | GB\*month | 8b56a795-0623-4a81-93b8-5b6d4c4ecb7c | 5b607fbe-1eca-4f73-9dd4-77af2809d6ad |
| Managed Disks -  Deprecated | 5d76e09f-4567-452a-94cc-7d1f097761f0 | S4 (Deprecated) | Count of Disks\*hours | none | none |
| dc9fc6a9-0782-432a-b8dc-978130457494 | S6 (Deprecated) | Count of Disks\*hours | none | none |
| e5572fce-9f58-49d7-840c-b168c0f01fff | S10 (Deprecated) | Count of Disks\*hours | none | none |
| 9a8caedd-1195-4cd5-80b4-a4c22f9302b8 | S15 (Deprecated) | Count of Disks\*hours | none | none |
| 5938f8da-0ecd-4c48-8d5a-c7c6c23546be | S20 (Deprecated) | Count of Disks\*hours | none | none |
| 7705a158-bd8b-4b2b-b4c2-0782343b81e6 | S30 (Deprecated) | Count of Disks\*hours | none | none |
| 5c105f5f-cbdf-435c-b49b-3c7174856dcc | P4 (Deprecated) | Count of Disks\*hours | none | none |
| 518b412b-1927-4f25-985f-4aea24e55c4f | P6 (Deprecated) | Count of Disks\*hours | none | none |
| 5cfb1fed-0902-49e3-8217-9add946fd624 | P10 (Deprecated) | Count of Disks\*hours | none | none |
| 8de91c94-f740-4d9a-b665-bd5974fa08d4 | P15 (Deprecated) | Count of Disks\*hours | none | none |
| c7e7839c-293b-4761-ae4c-848eda91130b | P20 (Deprecated) | Count of Disks\*hours | none | none |
| 9f502103-adf4-4488-b494-456c95d23a9f | P30 (Deprecated) | Count of Disks\*hours | none | none |
| 8a409390-1913-40ae-917b-08d0f16f3c38 | ActualStandardDiskSize (Deprecated) | Byte\*hours | none | none |
| 1273b16f-8458-4c34-8ce2-a515de551ef6 | ActualPremiumDiskSize (Deprecated) | Byte\*hours | none | none |
| 89009682-df7f-44fe-aeb1-63fba3ddbf4c | ActualStandardSnapshotSize (Deprecated) | Byte\*hours | none | none |
| 95b0c03f-8a82-4524-8961-ccfbf575f536 | ActualPremiumSnapshotSize (Deprecated) | Byte\*hours | none | none |
| Sql RP | cbcfef9a-b91f-4597-a4d3-01fe334bed82 | DatabaseSizeHourSqlMeter | MB\*hours | none | none |
| MySql RP | e6d8cfcd-7734-495e-b1cc-5ab0b9c24bd3 | DatabaseSizeHourMySqlMeter | MB\*hours | none | none |
| Key Vault | ebf13b9f-b3ea-46fe-bf54-396e93d48ab4 | Key Vault transactions | Request count in 10,000's | none | none |
| Key Vault | 2c354225-b2fe-42e5-ad89-14f0ea302c87 | Advanced keys transactions | 10K transactions | none | none |
| App service | 190c935e-9ada-48ff-9ab8-56ea1cf9adaa | App Service | Virtual core hours | 7de8be9f-6f98-4b04-a32d-ad0f20a3162a | 040da0f7-612f-4eaa-86b8-9e4d22be329f |
| App service | 67cc4afc-0691-48e1-a4b8-d744d1fedbde | Functions Requests | 10 Requests | none | none |
| App service | d1d04836-075c-4f27-bf65-0a1130ec60ed | Functions - Compute | GB-s | none | none |
| App service | 957e9f36-2c14-45a1-b6a1-1723ef71a01d | Shared App Service Hours | 1 hour | none | none |
| App service | 539cdec7-b4f5-49f6-aac4-1f15cff0eda9 | Free App Service Hours | 1 hour | none | none |
| App service | 88039d51-a206-3a89-e9de-c5117e2d10a6 | Small Standard App Service Hours | 1 hour | none | none |
| App service | 83a2a13e-4788-78dd-5d55-2831b68ed825 | Medium Standard App Service Hours | 1 hour | none | none |
| App service | 1083b9db-e9bb-24be-a5e9-d6fdd0ddefe6 | Large Standard App Service Hours | 1 hour | none | none |
| AppService - Custom Worker Tiers | custom worker tiers (deterministic meter id is created based on sku and custom worker tier name. this meter id is unique for each custom worker tier). | Custom Worker Tiers | Hours | none | none |
| 264acb47-ad38-47f8-add3-47f01dc4f473 | SNI SSL | Per SNI SSL Binding | none | none |
| 60b42d72-dc1c-472c-9895-6c516277edb4 | IP SSL | Per IP Based SSL Binding | none | none |
| 73215a6c-fa54-4284-b9c1-7e8ec871cc5b | Web Process |  | none | none |
| 5887d39b-0253-4e12-83c7-03e1a93dffd9 | External Egress Bandwidth | GB | none | none |

1. BYOL = Bring Your Own License. If a service provider has purchased SPLA licenses for the Azure Stack system, they should deploy Windows VMs using the LicenseType = “Windows\_Server” property, and the VMs will emit this Base meter, which is cheaper than the Windows VM meter. If you fail to do so, you will essentially be paying for the Windows license twice! Deploying BYOL VMs is described here: <https://docs.microsoft.com/en-us/azure/virtual-machines/windows/hybrid-use-benefit-licensing>. [↑](#footnote-ref-2)