

How to check Managed Instance quota and usage

Last updated by | Patrick Brewer | Feb 9, 2023 at 2:56 PM PST

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Issue

Under some situations you may need to confirm if the customer subscription has enough quota for MI vCores or Subnets in a certain region.

Investigation/Analysis

Here are a few ways to check vCore and Subnet Quotas for MI:

From the Customer's Side

REST API

Customers may use the REST API to check for vCore unit limit or Subnet limit:

<https://docs.microsoft.com/en-us/rest/api/sql/2021-02-01-preview/subscription-usages/get> 

usageName parameters to be used are:

- SubnetQuota
- VCoreQuota

And they mean:

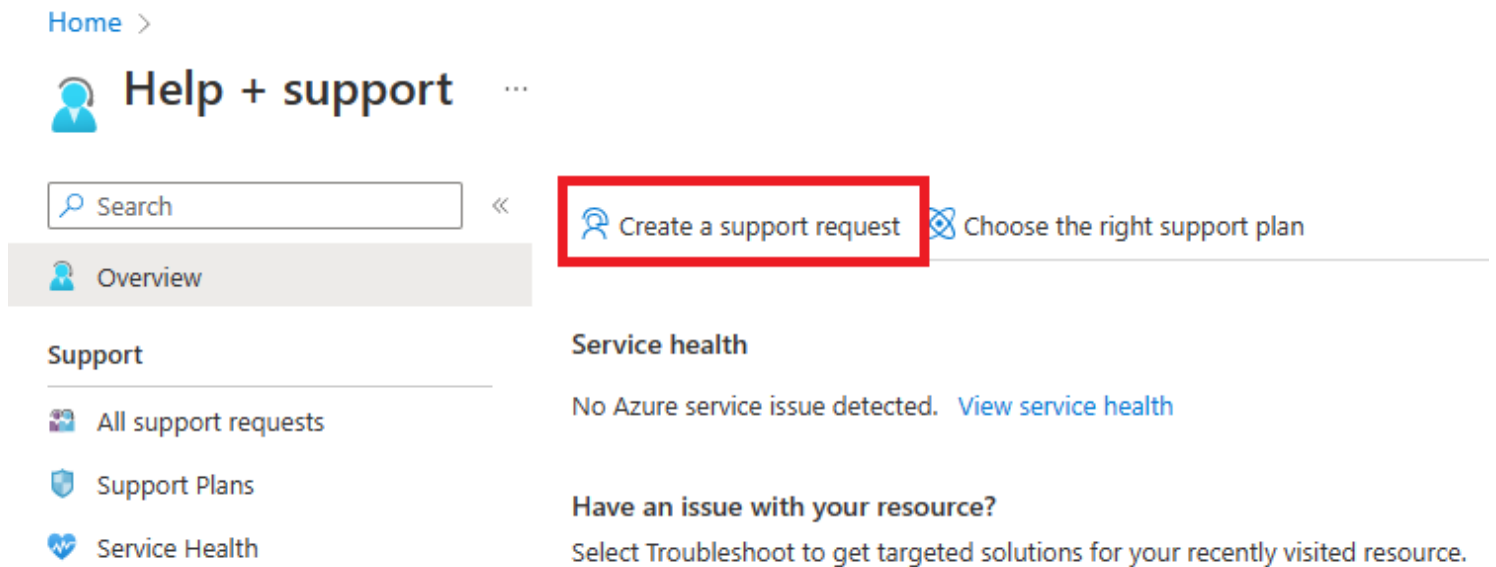
- Subnet limit: The maximum number of subnets where instances of SQL Managed Instance are deployed in a single region.
- vCore unit limit: The maximum number of vCore units that can be deployed across all instances in a single region. One GP vCore uses one vCore unit and one BC vCore takes 4 vCore units. The total number of

instances is not limited as long as it is within the vCore unit limit.

Portal

Customers may use the Portal to check their vCore or Subnet Quota limit and current usage.

To do so, navigate to the Help + Support Service. From there, click 'Create a Support Request', as depicted below.



Next, fill out the basics of the request to indicate which Subscription, and that you are having a problem with 'Service and subscription limits (quotas)' for 'SQL Database Managed Instance'.

New support request

1. Problem description 2. Recommended solution 3. Additional details 4. Review + create

Tell us your issue, and we'll help you resolve it.

Provide information about your billing, subscription, quota management, or technical issue (including requests for technical advice).

Issue type * Service and subscription limits (quotas) ▼

Subscription * ▼

Can't find your subscription? [Show more](#) ⓘ

Quota type * SQL Database Managed Instance ▼

Proceed to the next page and click 'Enter Details'.

[Home](#) > [Help + support](#) >

New support request ...

1. Problem description 2. Recommended solution **3. Additional details** 4. Review + create

Tell us a little more information.

Providing detailed, accurate information helps us resolve your issue faster.

Problem details

Additional information is required to promptly process your request for a quota increase.

Request details *

Provide details for the request

[Enter details](#)

The current Usage and Limit of both the vCore and Subnet Quotas should be displayed for the selected region. This is also where the desired limit can be requested to be raised if they fill in the accompanying boxes and submit the Support Request.

Quota details



Region *

(US) East US



Please enter the new limits you are requesting:

Resource	Usage	Limit	New limit
Subnet	1	8	<input type="text"/>
vCore	4	960	<input type="text"/>

Checking quota from our side

SQL Azure console

Run **Get-ManagedInstanceRegionalQuotas** and check Quota Id for the subscription (check ASC, Resource Explorer, click on the subscription id and check

```
PS C:\Users\VITOMAZ\SqIAzureConsole> Get-ManagedInstanceRegionalQuotas

These are the regional quotas for this region (usgovsouthcentral1-a):
```

Subscription type	vCores quota	Subnets quota
PayAsYouGo_2014-09-01	320	3
MSDN_2014-09-01	0	0
MPN_2014-09-01	0	0
Internal_2014-09-01	320	3
EnterpriseAgreement_2014-09-01	320	3
CSP_MG_2017-12-01	0	0
CSP_2015-05-01	0	0
BizSparkPlus_2014-09-01	0	0
BizSpark_2014-09-01	0	0
AzurePass_2014-09-01	0	0
Azure_MS-AZR-0148P	0	0
Azure_MS-AZR-0036P	0	0
Azure_MS-AZR-0023P	0	0

Subscriptions

[Quick Access List](#)

No items in quick access list yet.

+ Add subscription Resource group ▾

[Search for resources](#)

Completed loading live data for subscription
[View details for ARM-based VM subscription](#)

Show additional status

- 2bf4... ARM-based VM subscription
- Updated 2 minutes ago
- Resource Group
- Cloud Shell storage configuration
- Network bandwidth
- Access to the Internet
- Subscription ID
- Subscription name

ARM Properties

Created Time	10/11/2022 4:12:00 PM
Changed Time	10/12/2022 5:16:07 PM
Entitlement Start Date	10/11/2022 4:12:00 PM
Account Admin PUID	N/A
Account Admin Email	N/A
Offer Category	Acme Platform, OfferA, OfferB, OfferC, OfferD, OfferE, OfferF, OfferG, OfferH, OfferI, OfferJ, OfferK, OfferL, OfferM, OfferN, OfferO, OfferP, OfferQ, OfferR, OfferS, OfferT, OfferU, OfferV, OfferW, OfferX, OfferY, OfferZ
Offer Type	Buy
PC Code	N/A
Cost Category	N/A
Id	/subscriptions/2bf4... ARM-based VM subscription
Tenant Id	17d3cfe9-9dd1-4bba-a904-af7cc51b1ee7
ManagedBy Tenant Ids	[]
Display Name	Microsoft Azure Government CSP
State	Enabled
Location Placement Id	US_2016-08-01
Quota Id	CSP_2015-05-01
Spending Limit	Off

	Region
US Gov Texas	usgovsouthcentral1-a
US Gov Virginia	usgoveast1-a
US Gov Arizona	usgovsouthwest1-a
US Gov Iowa	usgovcentral1-a

using Jarvis: Subscription.GetManagedInstancesQuota


1. Open Jarvis Actions (<https://jarvis-west.dc.ad.msft.net/actions>)
2. Navigate to **SqlAzure > Subscription > Subscription.GetManagedInstancesQuota**

3. Fill the parameters
 - Select the region in the **Endpoint**
 - Fill the **SubscriptionId**
4. Run and get results like:

```
{
  "quota": {
    "subnet": "8",
    "vcore": "960"
  },
  "usage": {
    "subnet": "1",
    "vcore": "4"
  }
}
```

Checking usage

using Jarvis Subscription.GetManagedInstancesPerSubnet

1. Open Jarvis Actions (<https://jarvis-west.dc.ad.msft.net/actions> )
2. Navigate to **SqlAzure > Subscription > Subscription.GetManagedInstancesPerSubnet**
3. Fill the parameters
 - Select the region in the **Endpoint**
 - Fill the **SubscriptionId**
4. Run and get results like:

Quota: subnets = (8), vcores = (960).

Usage: subnets = (1), vcores = (12, customer-visible vcores = (4)).

Detailed usage per instances:

Subnet: /subscriptions/*Input Subscription Id*/resourceGroups/SharedMI/providers/Microsoft.Network/virtualNetwo

Detailed usage per rings:

Ring: tr266.francecentral1-a.worker.database.windows.net, GM Minus Nodes: 0, DB80 nodes: 0, DB64 nodes: 0, DB4



How good have you found this content?



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