

Resolve errors for resource quotas

Article • 04/05/2023

This article describes resource quota errors that might occur when you deploy resources with an Azure Resource Manager template (ARM template) or Bicep file.

Symptom

If your template creates resources that exceed your Azure quotas, you might get the following error:

Output

```
Code=OperationNotAllowed
Message=Operation results in exceeding quota limits of Core.
Maximum allowed: 4, Current in use: 4, Additional requested: 2.
```

Or, you might see this error:

Output

```
Code=ResourceQuotaExceeded
Message=Creating the resource of type <resource-type> would exceed
the quota of <number>
resources of type <resource-type> per resource group. The current re-
source count is <number>,
please delete some resources of this type before creating a new one.
```

Cause

Quotas are applied per resource group, subscriptions, accounts, and other scopes. For example, your subscription might be configured to limit the number of vCPUs for a region. If you attempt to deploy a virtual machine with more vCPUs than the permitted amount, you receive an error that the quota was exceeded.

For quota information, see [Azure subscription and service limits, quotas, and constraints](#).

Azure CLI

For Azure CLI, use the [az vm list-usage](#) command to find virtual machine quotas.

Azure CLI

```
az vm list-usage --location "West US" --output table
```

Output

Name	CurrentValue	Limit
-----	-----	-----
Availability Sets	0	2500
Total Regional vCPUs	0	100
Virtual Machines	0	25000
Virtual Machine Scale Sets	0	2500
Dedicated vCPUs	0	3000
Cloud Services	0	2500
Total Regional Low-priority vCPUs	0	100
Standard BS Family vCPUs	0	100
...		

Solution

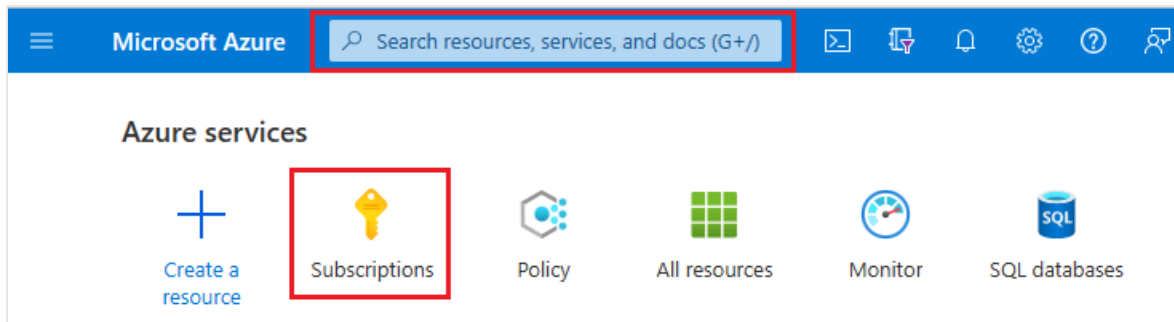
To request a quota increase, go to the portal and file a support issue. In the support issue, request an increase in your quota for the region into which you want to deploy.

Some quotas let you specify a quota limit that's submitted for review and either approved or rejected. If your limit is rejected, you'll see a link to open a support request.

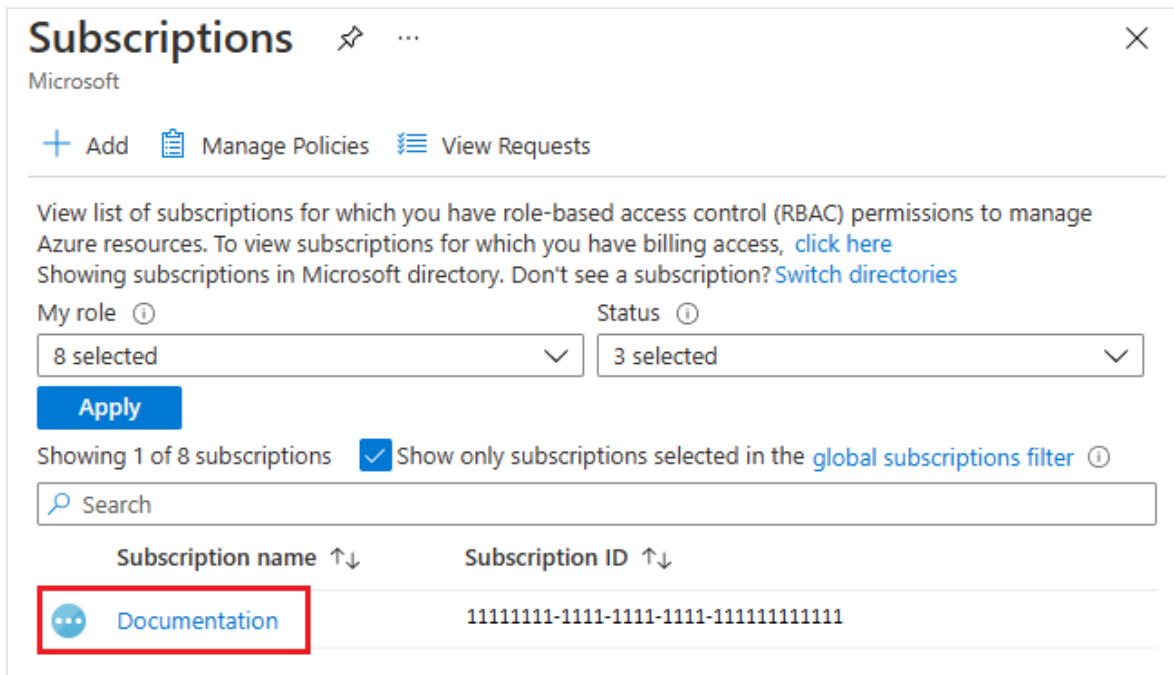
ⓘ Note

Remember that for resource groups, the quota is for each individual region, not for the entire subscription. If you need to deploy 30 vCPUs in West US, you have to ask for 30 Resource Manager vCPUs in West US. If you need to deploy 30 vCPUs in any of the regions to which you have access, you should ask for 30 Resource Manager vCPUs in all regions.

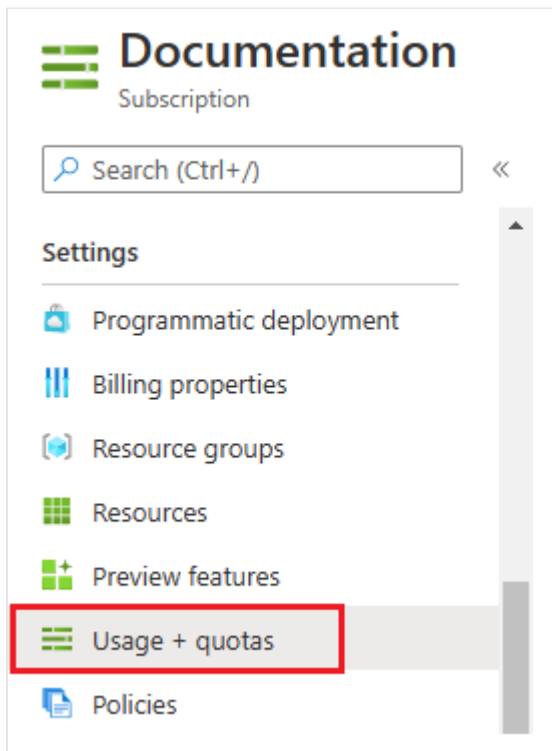
1. Sign in to the [Azure portal](#).
2. In the search box, enter *subscriptions*. Or if you've recently viewed your subscription, select **Subscriptions**.



3. Select the link for your subscription.



4. Select Usage + quotas.



5. Select Request increase.

From the quota list, you can also submit a support request for a quota increase. For quota's with a pencil icon, you can specify a quota limit.

Request increase

Refresh

Search

West US

Microsoft.Compute

Show all

Group by usage

Showing 1 to 100 of 116 records in 1 groups.

<div></div> Quota	Provider	Location	Usage ↓
<div><div></div>No usage (Showing 100 of 116)</div>			
Availability Sets	Microsoft.Compute	West US	<div><div></div>0%</div> <div>0 of 2500 <div></div></div>
Total Regional vCPUs	Microsoft.Compute	West US	<div><div></div>0%</div> <div>0 of 100 <div></div></div>
Virtual Machines	Microsoft.Compute	West US	<div><div></div>0%</div> <div>0 of 25000 <div></div></div>

6. Complete the forms for the type of quota you need to increase.

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 *

Documentation (11111111-1111-1111-1111-111111111111)

Can't find your subscription?

Show more ⓘ

Quota type *

Select a quota type

Next