

# Unable to create Vnet firewall rule

Last updated by | Ahmed Mahmoud | Nov 2, 2022 at 4:29 AM PDT

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## Unable to create Vnet firewall rule

### Issue 1

When adding a virtual network rule to allow '**enxtwe-bnet216**/ 10.130.5.96/28',got an error:  
{'error':{'code':'OperationCancelled','message':'The operation has been cancelled by user.'}}

Kusto showed the cancelation right after the submission and Network resource provider returned following error:

'Subnets **enxtwe-bnet109** of virtual network /subscriptions/*SubscriptionId*/resourceGroups/enxt-rg001/providers/Microsoft.Network/virtualNetworks/enxtwe-vnet001 do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql to subnet's ServiceEndpoints collection before trying to ACL Microsoft.Sql resources to these subnets.'

### Cause

To successfully add Vnet firewall rule, you need to have service endpoints enabled on all subnets that have VNET firewall rules added to them and IgnoreMissingServiceEndpoint is not true. You do not need service endpoints enabled on all subnets. You will only have to enable SE on those subnets that had the VNET firewall rules on them.

Revision from case #118101225002342

### Internal Reference

<https://portal.microsofticm.com/imp/v3/v3/incidents/details/79528783/home> 

### Issue 2

**When trying to configure a new Vnet endpoint on the Azure SQL Server customer got this error:**

Failed to update vnet rules for server: <servername>. ErrorCode: 502 ErrorMessage: Azure SQL Server Virtual

Network Rule encountered permission error: The client 'xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxx' with object id 'xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxx' **does not have authorization to perform action** 'Microsoft.Network/virtualNetworks/taggedTrafficConsumers/validate/action' over scope '/subscriptions/xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxx/resourceGroups/<RGname>/providers/Microsoft.Network/virtualNetworks/<VNetname>/taggedTrafficConsumers/Microsoft.SQL'.

or

Failed to update vnet rules for server: <servername>. **ErrorCode: 500 ErrorMessage: Gateway authentication failed for 'Microsoft.Sql'**. Diagnostic information: timestamp '20220526T100442Z', tracking id 'xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxx', request correlation id 'xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxx'.

The error message is about not having authorization.

The Azure SQL Server was located on one subscription and the Vnet was located on another subscription

The customer was the owner of both subscriptions

Both Azure SQL Server and Vnet were on the same region

All the requirements documented were met.

## Cause

The root cause was that the subscription where the Vnet was located didn't had the provider Microsoft.Sql registered.

## Mitigation

Register the Microsoft.Sql provider on the subscription where the Vnet was located.

We can register the provider using the Azure portal or using powershell.

Using the Azure portal

Go to "Subscriptions" and then on the "Resource providers" we will see the list of providers.

Search for the "Microsoft.Sql" provider and the press the "register" link on the right.

Subscriptions

Microsoft

+ Add

Showing subscriptions in Microsoft. Don't see a subscription? Switch directories

My role 0 Status 0

7 selected 3 selected

Apply

☒ Show only subscriptions selected in the global subscriptions filter 0

Search to filter items...

SUBS... SUBSCRIP...

Microso... 6bb9da63-f9... ...

Microsoft Azure Internal Consumption - Resource providers

Subscription

Search (Ctrl+F)

Refresh

Filter by name...

PROVIDER	STATUS		
Microsoft.Automation	Registered	Re-register	Unregister
Microsoft.Batch	Registered	Re-register	Unregister
Microsoft.Compute	Registered	Re-register	Unregister
Microsoft.Databricks	Registered	Re-register	Unregister
Microsoft.DataMigration	Registered	Re-register	Unregister
Microsoft.DBforMySQL	Registered	Re-register	Unregister
Microsoft.DBforPostgreSQL	Registered	Re-register	Unregister
Microsoft.Network	Registered	Re-register	Unregister
Microsoft.ResourceHealth	Registered	Re-register	Unregister
Microsoft.Security	Registered	Re-register	Unregister
Microsoft.Sql	Registered	Re-register	Unregister
Microsoft.Storage	Registered	Re-register	Unregister
Microsoft.Web	Registered	Re-register	Unregister
84codes.CloudAMQP	NotRegistered	Register	
AppDynamics.APM	NotRegistered	Register	
Aspera.Transfers	NotRegistered	Register	
Auth0.Cloud	NotRegistered	Register	
Citrix.Cloud	NotRegistered	Register	
CloudSimple.PrivateCloudaaS	NotRegistered	Register	
Cloudyn.Analytics	NotRegistered	Register	

Using powershell

Read in more detail on this article: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-manager-supported-services> Read more at <https://docs.microsoft.com/en-us/azure/azure-sql/database/vnet-service-endpoint-rule-overview?view=azuresql#azure-rbac-alternative>

### Classification

Root Cause: Azure SQL DB v2\Connectivity>Login Errors\Firewall errors and misconfigurations

How good have you found this content?

