

HTTP 409 when adding a firewall for the existing VNET

Last updated by | Vitor Tomaz | Dec 11, 2020 at 10:52 AM PST

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Issue

From the Azure portal, attempt to add a virtual network rule are returned HTTP 409 error.

Error:

//Failed to update VNET rule for the server. ErrorCode 409

Name: newVnetRule1

Subscription: DCO-LES-Tracker-N (Input SubscriptionId here)

Virtual network: TRK-NP

Subnet name/ Address prefix: Frontend / 10.194.33.144/29

intcoredwsvr - Firewalls and virtual networks

Search (Ctrl+F)

Save Discard Add client IP

ClientAddress	2017-10-24...	198.179.137.215	198.179.137.215	...
ClientAddress	2018-05-21...	198.179.137.228	198.179.137.228	...
Current		198.179.137.188	198.179.137.188	...
ericaburem		13.90.195.243	13.90.195.243	...
ericolek		159.220.74.5	159.220.74.5	...
Klient		52.176.95.0	52.176.95.255	...
NewRASSIS		168.62.53.118	168.62.53.118	...
ServerAdmin		86.57.255.0	86.57.255.255	...
TRKGrCoreDW		40.83.17.0	40.83.17.255	...
TRKGrCoreDW1		10.194.33.0	10.194.33.255	...

Connections from the VNET/Subnet specified below provides access to all databases in intcoredwsvr.

Virtual networks + Add existing virtual network + Create new virtual network

RULE NAME	VIRTUAL NETWORK	SUBNET	ADDRESS RANGE	ENDPOINT STATUS
No vnet rules for this server.				

Create
Failed to update server vnet rules
Failed to update vnet rules for server: intcoredwsvr. ErrorCode: 409 ErrorMessage: The operation has been cancelled by user.

Name: newVnetRule1
provide vnet rule name

Subscription: DCO-LES-Tracker-N (f30612fe-2137-4667-b366-0bcc596f316d)

Virtual network: TRK-NP

Subnet name / Address prefix: Frontend / 10.194.33.144/29

VIRTUAL NETWORK	SERVICE ENDPOINT STATUS
TRK-NP/Frontend	Enabled

OK

Environment context:

- ResourceUri: /subscriptions/Input SubscriptionId here/resourceGroups/TRK-IntegrationCoreDW/providers/Microsoft.Sql/servers/intcoredwsvr
- Location: centralus
- Cloud: Azure
- AzureProductSubscriptionID: Input SubscriptionId here
- AzureProductSubscriptionName: DCO-LES-Tracker-N
- PUID: 10037FFEA2D20F30
- Tenant Id: e205bfab-7c3a-4369-86f3-030001469257
- Object Id: f2b60edf-89f6-4f6f-b065-049366d6707f
- SubscriptionType: Premier
- RequestTypeId: AZURE_TECHNICAL
- SupportPlanDisplayName: Premier with Azure Rapid response
- GrantPermission: True

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.

Resolution :

After enabling the service endpoint on the subnets ENV02 and Frontend (for the one that they are adding rule on) in the vnet, Thomson Reuters were able to add the firewall rule.

Extended Analysis:

This issue happens in the following case only:

1. Customer enables SE on his subnet1.
2. Adds Vnet firewall rule to subnet1.
3. Disables SE on above subnet1.
4. Adds another vnet firewall rule on subnet2 in same vnet with SE enabled. Now requests times out as SE is not enabled on subnet1. portal times out before it can get an error.

The error message from the backend was "Network resource provider returned following error: 'Subnets ENV02 of virtual network /subscriptions/Input SubscriptionId here/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP 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.'"

Execute: [\[Web\]](#) [\[Web \(Lens\)\]](#) [\[Desktop\]](#) [\[Desktop \(SAW\)\]](#) <https://sqlazurecus2.kusto.windows.net:443/sqlazure1>

```
MonManagementExceptions|whereexception_type=="FiniteStateMachineUserException"
```

```
|joinkind=inner(
```

```
MonManagementVnetFirewallRule|where logical_server_name=="intcoredwsrv"
```

```
|project request_id, subnet_name, vnet_name, message
```

```
)on request_id
```

```
|summarize count() by request_id, message, vnet_name, subnet_name
```

request_id	message
272CAA8B-342A-4848-9109-DE4F81D31458	Network resource provider returned following error: 'Subnets ENV02 of virtual network /subscriptions/here/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql to ACL Microsoft.Sql resources to these subnets.'
272CAA8B-342A-4848-9109-DE4F81D31458	Network resource provider returned following error: 'Subnets ENV02 of virtual network /subscriptions/here/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql to ACL Microsoft.Sql resources to these subnets.'
D97BB54B-F8D5-4391-8FBB-9D5FC00159F9	Network resource provider returned following error: 'Subnets ENV02 of virtual network /subscriptions/here/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql to ACL Microsoft.Sql resources to these subnets.'
D97BB54B-F8D5-4391-8FBB-9D5FC00159F9	Network resource provider returned following error: 'Subnets ENV02 of virtual network /subscriptions/here/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql to ACL Microsoft.Sql resources to these subnets.'
1D56DB38-DA5B-469B-8A86-191BA9C15730	Network resource provider returned following error: 'Subnets ENV02 of virtual network /subscriptions/here/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql to ACL Microsoft.Sql resources to these subnets.'
1D56DB38-DA5B-469B-8A86-191BA9C15730	Network resource provider returned following error: 'Subnets ENV02 of virtual network /subscriptions/here/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql to ACL Microsoft.Sql resources to these subnets.'
9A0DB5B4-FFAC-457D-90C2-9EA8ACBCD734	Network resource provider returned following error: 'Subnets ENV02 of virtual network /subscriptions/here/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql to ACL Microsoft.Sql resources to these subnets.'
9A0DB5B4-FFAC-457D-90C2-9EA8ACBCD734	Network resource provider returned following error: 'Subnets ENV02 of virtual network /subscriptions/here/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql to ACL Microsoft.Sql resources to these subnets.'
B8AFEEBA-4EC5-4B05-	Network resource provider returned following error: 'Subnets ENV02 of virtual network /subscriptions/here/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-

9F40-BCB88DCF65AD	NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql ACL Microsoft.Sql resources to these subnets.'
B8AFEEBA-4EC5-4B05-9F40-BCB88DCF65AD	Network resource provider returned following error: 'Subnets ENV02 of virtual network /su here/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql ACL Microsoft.Sql resources to these subnets.'
6BC2C627-8662-497C-B374-E05A2E1C1DF9	Network resource provider returned following error: 'Subnets ENV02 of virtual network /su here/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql ACL Microsoft.Sql resources to these subnets.'
6BC2C627-8662-497C-B374-E05A2E1C1DF9	Network resource provider returned following error: 'Subnets ENV02 of virtual network /su here/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql ACL Microsoft.Sql resources to these subnets.'
1275542F-2A37-4735-9EED-3A006DC81FA7	Network resource provider returned following error: 'Subnets ENV02 of virtual network /su here/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql ACL Microsoft.Sql resources to these subnets.'
1275542F-2A37-4735-9EED-3A006DC81FA7	Network resource provider returned following error: 'Subnets ENV02 of virtual network /su here/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql ACL Microsoft.Sql resources to these subnets.'
161BCF06-C20E-4570-AB5B-DBC7E6565007	Network resource provider returned following error: 'Subnets ENV02 of virtual network /su here/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql ACL Microsoft.Sql resources to these subnets.'
161BCF06-C20E-4570-AB5B-DBC7E6565007	Network resource provider returned following error: 'Subnets ENV02 of virtual network /su here/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql ACL Microsoft.Sql resources to these subnets.'
30E5F8B8-C0E2-4842-9E8F-40EFC14B4C5E	Network resource provider returned following error: 'Subnets ENV02 of virtual network /su here/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql ACL Microsoft.Sql resources to these subnets.'
30E5F8B8-C0E2-4842-9E8F-40EFC14B4C5E	Network resource provider returned following error: 'Subnets ENV02 of virtual network /su here/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-

	NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql to ACL Microsoft.Sql resources to these subnets.'
45A62B73-45C1-4DDA-8487-7366B49A050B	Network resource provider returned following error: 'Subnets ENV02 of virtual network /subscriptions/45A62B73-45C1-4DDA-8487-7366B49A050B/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql to ACL Microsoft.Sql resources to these subnets.'
45A62B73-45C1-4DDA-8487-7366B49A050B	Network resource provider returned following error: 'Subnets ENV02 of virtual network /subscriptions/45A62B73-45C1-4DDA-8487-7366B49A050B/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql to ACL Microsoft.Sql resources to these subnets.'
8A7A359D-6352-44D7-BC4C-D772711BEE3D	Network resource provider returned following error: 'Subnets ENV02 of virtual network /subscriptions/8A7A359D-6352-44D7-BC4C-D772711BEE3D/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql to ACL Microsoft.Sql resources to these subnets.'
8A7A359D-6352-44D7-BC4C-D772711BEE3D	Network resource provider returned following error: 'Subnets ENV02 of virtual network /subscriptions/8A7A359D-6352-44D7-BC4C-D772711BEE3D/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql to ACL Microsoft.Sql resources to these subnets.'
6E78A41E-476C-4393-AD40-C064D2090DB9	Network resource provider returned following error: 'Subnets ENV02 of virtual network /subscriptions/6E78A41E-476C-4393-AD40-C064D2090DB9/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql to ACL Microsoft.Sql resources to these subnets.'
6E78A41E-476C-4393-AD40-C064D2090DB9	Network resource provider returned following error: 'Subnets ENV02 of virtual network /subscriptions/6E78A41E-476C-4393-AD40-C064D2090DB9/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql to ACL Microsoft.Sql resources to these subnets.'
21BEE6D3-C0E3-46B2-A034-0F02220A91CD	Network resource provider returned following error: 'Subnets ENV02 of virtual network /subscriptions/21BEE6D3-C0E3-46B2-A034-0F02220A91CD/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql to ACL Microsoft.Sql resources to these subnets.'
21BEE6D3-C0E3-46B2-A034-0F02220A91CD	Network resource provider returned following error: 'Subnets ENV02 of virtual network /subscriptions/21BEE6D3-C0E3-46B2-A034-0F02220A91CD/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql to ACL Microsoft.Sql resources to these subnets.'
7308AFB3-0DE7-4806-	Network resource provider returned following error: 'Subnets ENV02 of virtual network /subscriptions/7308AFB3-0DE7-4806-/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-

9B79-239B81D01BF3	NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql ACL Microsoft.Sql resources to these subnets.'
7308AFB3-0DE7-4806-9B79-239B81D01BF3	Network resource provider returned following error: 'Subnets ENV02 of virtual network /subscriptions/here/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql ACL Microsoft.Sql resources to these subnets.'
B6B34F1A-DF5E-4B39-AF44-058FED3115EB	Network resource provider returned following error: 'Subnets ENV02 of virtual network /subscriptions/here/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql ACL Microsoft.Sql resources to these subnets.'
B6B34F1A-DF5E-4B39-AF44-058FED3115EB	Network resource provider returned following error: 'Subnets ENV02 of virtual network /subscriptions/here/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql ACL Microsoft.Sql resources to these subnets.'
F7DC5D4B-4AC7-4B5B-8C58-46E0E4131E20	The operation has been cancelled by user.
F7DC5D4B-4AC7-4B5B-8C58-46E0E4131E20	Network resource provider returned following error: 'Subnets ENV02 of virtual network /subscriptions/here/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql ACL Microsoft.Sql resources to these subnets.'
F7DC5D4B-4AC7-4B5B-8C58-46E0E4131E20	The operation has been cancelled by user.
F7DC5D4B-4AC7-4B5B-8C58-46E0E4131E20	Network resource provider returned following error: 'Subnets ENV02 of virtual network /subscriptions/here/resourceGroups/TRK-NP/providers/Microsoft.Network/virtualNetworks/TRK-NP do not have ServiceEndpoints for Microsoft.Sql resources configured. Add Microsoft.Sql ACL Microsoft.Sql resources to these subnets.'

>>for getting list of all subnets use below query in XTS

>>use global cms adoc view as that will check against all clusters

select logical_server_name, subnet_name, ignore_missing_vnet_service_endpoint from vnet_firewall_rules where vnet_name = 'TRK-NP' and vnet_resource_group_name = 'TRK-NP' and vnet_subscription_id = 'Input SubscriptionId here'

coredw ENV02 false

coredw1 ENV02 false

intcoredwsrv ENV02 false

trkintusanalytics ENV02 false

trkstagecoredw ENV02 false

coredwqa Frontend false

intcoredwsrv Frontend false

From the backend, the subnets that had VNET firewall rules added to them and IgnoreMissingServiceEndpoint is not true were : ENV02 and Frontend (for the one that you are adding rule on). So, in order to fix the issue, Eric had to enable the service endpoint on subnets ENV02 & Frontend only.

Please refer this TSG : [CRGW00041 VNET: Issues and validations](#) for more details

SEFONSEC

On my case rule was on other logical server

	logical_server_name	subnet_name	ignore_missing_vnet_service_endpoint
▶	myosayet8	z-ppp-dv-ase01-sub01	True
	sonarqubesql	z-ppp-dv-iaas03-sub12	False

Subnets z-ppp-dv-iaas03-sub12 of virtual network

/subscriptions/*SubscriptionId*/resourceGroups/z-ppp-tran-shrd-dv-a-en1-rgp00/providers/Microsoft.Network/virtualNetworks/z-ppp-tran-shrd-dv-a-en1-net01

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.'

How good have you found this content?

