Unable to create VNET Rule

Last updated by | Lisa Liu | Nov 6, 2020 at 10:36 AM PST

Problem:

Customer is not able to create a virtual network rule on Postgres/MySQL server of type General Purpose/Memory Optimized. **Error message**: An unexpected error occurred while processing the request. Tracking ID: '1333a766-e63c-4eba-a55e-6fcf20498071'.

Reference ICM(s):

https://icm.ad.msft.net/imp/v3/incidents/details/90363783/home https://icm.ad.msft.net/imp/v3/incidents/details/102542308/home

https://icm.ad.msft.net/imp/v3/incidents/details/148448304/home (RCA: Certificate used to auth with NRP call(ValidateTaggedTraffic) expired)

Cause & finding relevant information like VNET Name, Subnet name:

• Get a request id corresponding to Vnet rule creation. We search arm kusto endpoint and HttpOutgoingRequests table for finding request id. From results check "ser

```
Execute: [Web] [Desktop] [Web (Lens)] [Desktop (SAWI)] https://armprod.kusto.windows.net:443/ARMProd_or
HttpOutgoingRequests
| where TIMESTAMP > ago(4d)
| where subscriptionId == '35ef02fb-4991-4143-9ecc-3e37dd6586d6'
| where targetUri contains 'subscriptions/35ef02fb-4991-4143-9ecc-3e37dd6586d6/resourceGroups/daa-artv660a-murthy-rg/providers/Microsoft.DBforPostgreSQL/servers/art-fdqqkgmkqybr4/virtualNetworkRules/daadevops'
```

[Or] If you do not have full targetUri and subscriptionid

```
Execute: [Web] [Desktop] [Web (Lens)] [Desktop (SAW)] https://armprod.kusto.windows.net:443/ARMProd
HttpOutgoingRequests
| where TIMESTAMP > ago(3d)
| where targetUri contains "<logicalservername>"
| where httpMethod != "GET"
```

Fairfax arm endpoint: https://armff.kusto.usgovcloudapi.net:443/armff

principalPuid	tenantld	operation Name	httpMethod	hostName	targetUri
100300009CBE224C	6362b077-fb81-4d	PUT/MODULES/SU	PUT	management.west	https://manageme
100300009CBE224C	6362b077-fb81-4d	PUT/MODULES/SU	PUT	management.west	https://manageme
100300009CBE224C	6362b077-fb81-4d	PUT/MODULES/SU	PUT	management.west	https://manageme
100300009CBE224C	6362b077-fb81-4d	PUT/MODULES/SU	PUT	management.west	https://managemo
100300009CBE224C	6362b077-fb81-4d	PUT/MODULES/SU	PUT	management.west	https://manageme
100300009CBE224C	6362b077-fb81-4d	PUT/MODULES/SU	PUT	management.west	https://manageme
100300009CBE224C	6362b077-fb81-4d	PUT/MODULES/SU	PUT	management.west	https://manageme
100300009CBE224C	6362b077-fb81-4d	PUT/MODULES/SU	PUT	management.west	https://managemo

- Using above request_id, check MonManagement for MS request lifecycle. From Results, we can validate that the firewall rule creation failed for a particular server b
 Operation type UpsertElsticServerVnetFirewallRule
- o Operation_parameters Validate server name, subscription_id, resource group etc., we can get the vnet name , subnet name which user wants to add in vnet rule.
- New state failed
- o Error_message: Request failed with non retryable exception.

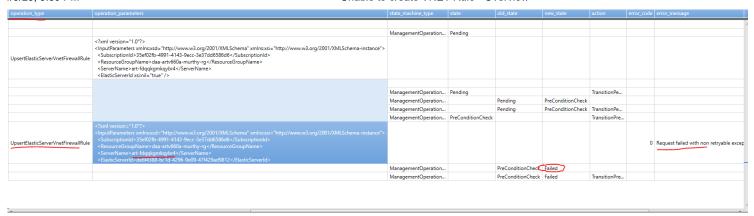
```
Execute: [Web] [Desktop] [Web (Lens)] [Desktop (SAW)] https://sqlazurewus1.kusto.windows.net:443/sqlazure1

MonManagement

| where originalEventTimestamp > ago(4d)

| where request_id == toupper('77a51c7b-6ca6-483d-9fbf-76164607c569')
| project originalEventTimestamp, request_id, NodeName, transaction_id, context_instance_name, event, operation_name, operation_type, operation_parameters,
    state_machine_type, state, old_state, new_state, action, fsm_event, exception_type, message, error_code, error_message, stack_trace, keys, elapsed_time,
    target_tenant_ring_name, history, sqlInstanceName, required_storage, placement_affinity_tag

| sort by originalEventTimestamp asc
```



You see "Request failed with non Retryable exception" ... This exception could occur when Postgres call NRP for validateTaggedTraffic operation

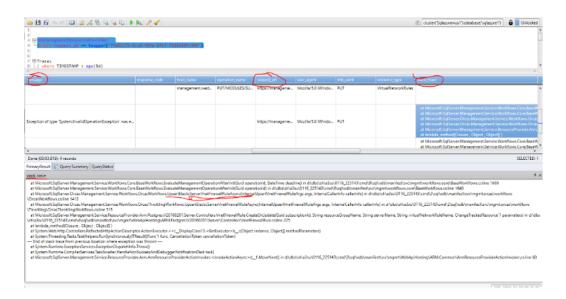
```
Coss Reference: UpsertElasticServerVnetFirewallRuleManagementOperation.cs

cord. (Agiliational (Fordy-right auton/mortImagement) press involuperation involuperation in the control of the
```

Alsos we can see stack trace in MonManagementResourceProvider table:

```
Execute: [Web] [Desktop] [Web (Lens]) [Desktop (SAW!) https://sglazurewus1.kusto.windows.net:443/sglazure1

MonManagementResourceProvider
|where request_id == toupper('77a51c7b-6ca6-483d-9fbf-76164607c569')
```



Exception message: Exception of type 'System.InvalidOperationException' was encountered. Exception message does not meet compliance 'ObjectName' so it was logged to PiiManagementExceptions with error identifier 'd1215fdf-4e69-4eec-9371-61d5be14b674'.

Request uri:

 $\frac{https://management.westus.control.database.windows.net/modules/ArmPostgreSQL/subscriptions/35ef02fb-4991-4143-9ecc-3e37dd6586d6/resourceGroups/daa-artv660a-murthy-rg/providers/Microsoft.DBforPostgreSQL/servers/art-fdqqkgmkqybr4/virtualNetworkRules/daadevops?api-version=2017-12-01-preview$

Call statck:

System.InvalidOperationException: Request failed with non retryable exception.

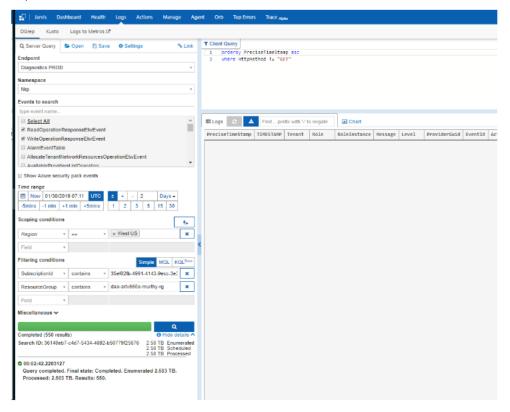
- $at\ Microsoft. Sql Server. Management. Service. Workflows. Core. Base Workflows. Evaluate Management Operation After Init (Guid operation Id, Date Time deadline) in the property of the pro$
- d:\dbs\sh\a3su\0116_225143\cmd\9\sql\xdb\manifest\svc\mgmt\workflows.core\BaseWorkflows.cs:line 1669
- $at\ Microsoft. SqlServer. Management. Service. Workflows. Core. Base Workflows. Evaluate Management Operation After Init (Guid operation Id) in the properties of the proper$
- d:\dbs\sh\a3su\0116 225143\cmd\9\sql\xdb\manifest\svc\mgmt\workflows.core\BaseWorkflows.cs:line 1640
- at Microsoft.SqlServer.Orcas.Management.Service.Workflows.OrcasWorkflows.UpsertElasticServerVnetFirewallRuleAsync(InternalUpsertVnetFirewallRuleArgs args,

 $Internal Caller Info caller Info (aller Info) in d: \dbs\sh\a3su\0116_225143\cmd\2\sql\xdb\manifest\svc\mgmt. or cas\workflows\) Or cas\workflows. cs: line 1412 at the control of the caller Info (aller Info) in d: \dbs\sh\a3su\0116_225143\cmd\2\sql\xdb\manifest\svc\mgmt. or cas\workflows\) Or ca$

 $\label{lem:microsoft.SqlServer.Orcas.Management.Service.Workflows.OrcasThrottlingWorkflows.UpsertElasticServerVnetFirewallRuleAsync(InternalUpsertVnetFirewallRuleArgs args, InternalCallerInfo callerInfo) in d:\dbs\sh\a3su\0116_225143\cmd\2\sql\xdb\manifest\svc\mgmt.orcas\workflows\Throttling\OrcasThrottling\Workflows.cs:line 515$

- $at\ Microsoft. Sql Server. Management. Service. Resource Provider. Arm. Postgres. V20160201. Server. Controllers. Vnet Firewall Rule. Create Or Update (Guid subscription Id, and the provider of the provid$
- String resourceGroupName, String serverName, String virtualNetworkRuleName, ChangeTrackedResource`1 parameters) in
- d:\dbs\sh\a3su\0116_225143\cmd\4\sql\xdb\manifest\svc\mgmt\WebApiHosting\ARM.Postgres\V20160201\Server\Controllers\VnetFirewallRule.cs:line 225
- at lambda_method(Closure , Object , Object[])
- $at System. Web. Http. Controllers. Reflected Http Action Descriptor. Action Executor. <> c_Display Class 13. < Get Executor> b_c (Object instance, Object[] method Parameters)$
- $at \ System. Threading. Tasks. Task Helpers. Run Synchronously [TResult] (Func`1 \ func, \ Cancellation Token)$
- --- End of stack trace from previous location where exception was thrown ---
- $at\ System. Runtime. Exception Services. Exception Dispatch Info. Throw ()$
- $at\ System. Runtime. Compiler Services. Task Awaiter. Handle Non Success And Debugger Notification (Task\ task)$
- $at\ Microsoft. Sql Server. Management. Service. Resource Provider. Arm. Arm. Resource Provider Action Invoker. < Invoke Action Async>d_1. Move Next()\ invoke Action Async>d_1. Move Next()\ invoked Action Async Async Action A$
- d:\dbs\sh\a3su\0116_225143\cmd\3\sql\xdb\manifest\svc\mgmt\WebApiHosting\ARM.Common\ArmResourceProviderActionInvoker.cs:line 60

From < https://jarvis-west.dc.ad.msft.net/logs/dgrep>



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