

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 (SAW)] 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-fdqkqgmkybr4/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	tenantId	operationName	httpMethod	hostName	targetUri
100300009CBE224C	6362b077-fb81-4d...	PUT/MODULES/SU...	PUT	management.west...	https://managem...
100300009CBE224C	6362b077-fb81-4d...	PUT/MODULES/SU...	PUT	management.west...	https://managem...
100300009CBE224C	6362b077-fb81-4d...	PUT/MODULES/SU...	PUT	management.west...	https://managem...
100300009CBE224C	6362b077-fb81-4d...	PUT/MODULES/SU...	PUT	management.west...	https://managem...
100300009CBE224C	6362b077-fb81-4d...	PUT/MODULES/SU...	PUT	management.west...	https://managem...
100300009CBE224C	6362b077-fb81-4d...	PUT/MODULES/SU...	PUT	management.west...	https://managem...
100300009CBE224C	6362b077-fb81-4d...	PUT/MODULES/SU...	PUT	management.west...	https://managem...
100300009CBE224C	6362b077-fb81-4d...	PUT/MODULES/SU...	PUT	management.west...	https://managem...

- 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 - UpsertElasticServerVnetFirewallRule
- 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
- Error_message: Request failed with non retryable exception.

```
Execute: [Web] [Desktop] [Web (Lens)] [Desktop (SAW)] https://sqlazurwus1.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
```

operation_type	operation_parameters	state_machine_type	state	old_state	new_state	action	error_code	error_message
UpsertElasticServerVnetFirewallRule	<?xml version="1.0"?> <InputParameters xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"> <SubscriptionId>35ef02fb-4991-4143-9ecc-3e37dd6586d6</SubscriptionId> <ResourceGroupName>daa-artv660a-murthy-rg</ResourceGroupName> <ServerName>art-fdqkgmkqybr4</ServerName> <ElasticServerId>de8f4388-bc1d-4296-9e09-47f429ad9812</ElasticServerId> </InputParameters>	ManagementOperation...	Pending					
		ManagementOperation...	Pending			TransitionPe...		
		ManagementOperation...		Pending	PreConditionCheck			
		ManagementOperation...	Pending	Pending	PreConditionCheck	TransitionPe...		
		ManagementOperation...	PreConditionCheck			TransitionPre...		
UpsertElasticServerVnetFirewallRule	<?xml version="1.0"?> <InputParameters xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"> <SubscriptionId>35ef02fb-4991-4143-9ecc-3e37dd6586d6</SubscriptionId> <ResourceGroupName>daa-artv660a-murthy-rg</ResourceGroupName> <ServerName>art-fdqkgmkqybr4</ServerName> <ElasticServerId>de8f4388-bc1d-4296-9e09-47f429ad9812</ElasticServerId> </InputParameters>	ManagementOperation...						0 Request failed with non retryable excep
		ManagementOperation...		PreConditionCheck	Failed			
		ManagementOperation...		PreConditionCheck	Failed	TransitionPre...		

Operation parameters:

```
<?xml version="1.0"?>
<InputParameters xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <SubscriptionId>35ef02fb-4991-4143-9ecc-3e37dd6586d6</SubscriptionId>
  <ResourceGroupName>daa-artv660a-murthy-rg</ResourceGroupName>
  <ServerName>art-fdqkgmkqybr4</ServerName>
  <ElasticServerId>de8f4388-bc1d-4296-9e09-47f429ad9812</ElasticServerId>
  <ServerType>PostgreSQL.Server.PAL</ServerType>
  <RuleName>daa-devops</RuleName>
  <VnetSubscriptionId>35ef02fb-4991-4143-9ecc-3e37dd6586d6</VnetSubscriptionId>
  <VnetResourceGroupName>daa-devops-large-westus-rg</VnetResourceGroupName>
  <VnetProviderName>Microsoft.Network</VnetProviderName>
  <VnetName>daa-devops-services-vnet</VnetName>
  <SubnetName>daa-devops-application-subnet</SubnetName>
  <IgnoreMissingVnetServiceEndpoint>false</IgnoreMissingVnetServiceEndpoint>
</InputParameters>
```

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

OpenGrok Cross Reference: UpsertElasticServerVnetFirewallRuleManagementOperation.cs

Home | History | Annotate | Line# | Navigate | Raw | Download | Search | only in /Sql/xdb/manifest/svc/mgmt/orcas/workflows/ManagementOperations/

```

183 (e.ComplianceLevel, ObjectName,
184 0, SqlErrorSeverity_EX_USER, "Another operation is in progress on virtual network firewall rule {0} on server {1}",
185 InputParams.RuleName, InputParams.ServerName));
186
187 return false;
188
189
190 // No need to call NRP for onbox and test cases, it is going to fail.
191 if (!ManagementService.InitializeStateMachineConfigurationSection.Instance.PushElasticServerVnetSQLToDBPCalls)
192 {
193     return true;
194 }
195
196 try
197 {
198     AzureNetworkResourceProviderClient networkResourceProviderClient =
199         ElasticServerVnetFirewallRuleStateMachine.GetAzureNetworkResourceProviderClient(
200             operationStateMachine.Context, osom.ElasticServerId, InputParams.VnetResourceGroupName, InputParams.VnetSubscriptionId);
201
202     if (networkResourceProviderClient.ValidateTaggedTrafficConsumers(
203         InputParams.VnetSubscriptionId, InputParams.VnetResourceGroupName,
204         InputParams.VnetProviderName,
205         InputParams.VnetName,
206         NormalizedLocalizedContextForConfigurationSection.Instance.LocalRegion,
207         InputParams.SubnetName,
208         InputParams.IgnoreMissingVnetServiceEndpoint))
209     {
210         return true;
211     }
212 }
213 catch (FiniteStateMachineException e)
214 {
215     operationStateMachine.SetErrorInformation(e);
216 }
217 catch (AzureNetworkClientException e)
218 {
219     operationStateMachine.SetErrorInformation(
220         e.ComplianceLevel,
221         e.Message,
222         "Request failed with non retryable exception.",
223         e.Message);
224 }
225 catch (Exception e)
226 {
227     operationStateMachine.SetErrorInformation(
228         e.ComplianceLevel,
229         e.Message,
230         "Request failed with non retryable exception.",
231         e.Message);
232 }
233
234 return false;
235
236
237

```

Also we can see stack trace in MonManagementResourceProvider table:

```
Execute: [Web] [Desktop] [Web (Lens)] [Desktop (SAW)] https://sqlazurwus1.kusto.windows.net:443/sqlazur1
MonManagementResourceProvider
|where request_id == toupper('77a51c7b-6ca6-483d-9fbf-76164607c569')
```

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'.

Stack trace

```

at Microsoft.SqlServer.Management.Service.Workflows.Core.BaseWorkflows.EvaluateManagementOperationAfterInit(Guid operationId, DateTime deadline) in d:\dbs\sh\sa3su\0116_225143\cmd\9\sql\xdb\manifest\svc\mgmt\workflows.core\BaseWorkflows.cs:line 1669
at Microsoft.SqlServer.Management.Service.Workflows.Core.BaseWorkflows.EvaluateManagementOperationAfterInit(Guid operationId) in d:\dbs\sh\sa3su\0116_225143\cmd\9\sql\xdb\manifest\svc\mgmt\workflows.core\BaseWorkflows.cs:line 1642
at Microsoft.SqlServer.Orcas.Management.Service.Workflows.OrcasWorkflows.UpsertElasticServerVnetFirewallRuleAsync(InternalUpsertVnetFirewallRuleArgs args, InternalCallerInfo callerInfo) in d:\dbs\sh\sa3su\0116_225143\cmd\2\sql\xdb\manifest\svc\mgmt\orcas\workflows\OrcasWorkflows.cs:line 1412
at Microsoft.SqlServer.Orcas.Management.Service.Workflows.OrcasThrottlingWorkflows.UpsertElasticServerVnetFirewallRuleAsync(InternalUpsertVnetFirewallRuleArgs args, InternalCallerInfo callerInfo) in d:\dbs\sh\sa3su\0116_225143\cmd\2\sql\xdb\manifest\svc\mgmt\orcas\workflows\Throttling\OrcasThrottlingWorkflows.cs:line 515
at Microsoft.SqlServer.Management.Service.ResourceProvider.Arm.Postgres.V20160201.Server.Controllers.VnetFirewallRule.CreateOrUpdate(Guid subscriptionId, String resourceGroupName, String virtualNetworkRuleName, ChangeTrackedResource`1 parameters) in d:\dbs\sh\sa3su\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.ReflectedHttpActionDescriptor.ActionExecutor.<>c__DisplayClass13.<GetExecutor>b__c(Object instance, Object[] methodParameters)
at System.Threading.Tasks.TaskHelpers.RunSynchronously[TResult](Func`1 func, CancellationToken cancellationToken)
--- End of stack trace from previous location where exception was thrown ---
at System.Runtime.ExceptionServices.ExceptionDispatchInfo.Throw()
at System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndDebuggerNotification(Task task)
at Microsoft.SqlServer.Management.Service.ResourceProvider.Arm.ArmResourceProviderActionInvoker.<InvokeActionAsync>d__1.MoveNext() in d:\dbs\sh\sa3su\0116_225143\cmd\3\sql\xdb\manifest\svc\mgmt\WebApiHosting\ARM.Common\ArmResourceProviderActionInvoker.cs:line 60

```

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:

<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-fdggkgmkqybr4/virtualNetworkRules/daadevops?api-version=2017-12-01-preview>

Call stack:

```

System.InvalidOperationException: Request failed with non retryable exception.
at Microsoft.SqlServer.Management.Service.Workflows.Core.BaseWorkflows.EvaluateManagementOperationAfterInit(Guid operationId, DateTime deadline) in d:\dbs\sh\sa3su\0116_225143\cmd\9\sql\xdb\manifest\svc\mgmt\workflows.core\BaseWorkflows.cs:line 1669
at Microsoft.SqlServer.Management.Service.Workflows.Core.BaseWorkflows.EvaluateManagementOperationAfterInit(Guid operationId) in d:\dbs\sh\sa3su\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, InternalCallerInfo callerInfo) in d:\dbs\sh\sa3su\0116_225143\cmd\2\sql\xdb\manifest\svc\mgmt\orcas\workflows\OrcasWorkflows.cs:line 1412
at Microsoft.SqlServer.Orcas.Management.Service.Workflows.OrcasThrottlingWorkflows.UpsertElasticServerVnetFirewallRuleAsync(InternalUpsertVnetFirewallRuleArgs args, InternalCallerInfo callerInfo) in d:\dbs\sh\sa3su\0116_225143\cmd\2\sql\xdb\manifest\svc\mgmt\orcas\workflows\Throttling\OrcasThrottlingWorkflows.cs:line 515
at Microsoft.SqlServer.Management.Service.ResourceProvider.Arm.Postgres.V20160201.Server.Controllers.VnetFirewallRule.CreateOrUpdate(Guid subscriptionId, String resourceGroupName, String virtualNetworkRuleName, ChangeTrackedResource`1 parameters) in d:\dbs\sh\sa3su\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.ReflectedHttpActionDescriptor.ActionExecutor.<>c__DisplayClass13.<GetExecutor>b__c(Object instance, Object[] methodParameters)
at System.Threading.Tasks.TaskHelpers.RunSynchronously[TResult](Func`1 func, CancellationToken cancellationToken)
--- End of stack trace from previous location where exception was thrown ---
at System.Runtime.ExceptionServices.ExceptionDispatchInfo.Throw()
at System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndDebuggerNotification(Task task)
at Microsoft.SqlServer.Management.Service.ResourceProvider.Arm.ArmResourceProviderActionInvoker.<InvokeActionAsync>d__1.MoveNext() in d:\dbs\sh\sa3su\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/dagrep>

Jan's DashboardHealthLogsActionsManageAgentOrbTop ErrorsTrace Alerts

DGrepKustoLogs to Metrics

Q Server QueryOpenSaveSettingsLink

EndpointDiagnostics PROD

NamespaceNip

Events to search

type event name...

Select All

☒ ReadOperationResponseEtwEvent

☒ WriteOperationResponseEtwEvent

☐ AlarmEventTable

☐ AllocateTenantNetworkResourcesOperationEtwEvent

☐ AvailableProviderListOperation...

☐ Show Azure security pack events

Time range

Now01/30/2019 07:11 UTC

±

-

2

Days

-5mins-1 min+1 min+5mins

12351530

Scoping conditions

Region

West US

Field

Filtering conditions

SimpleMQLKQLBeta

SubscriptionId

contains

35e92b-4991-4143-9ecc-3ec

ResourceGroup

contains

daa-afv660a-murthy-rg

Field

Miscellaneous

Completed (550 results)

Search ID: 36140eb7-c4d7-5434-4892-b5077925676

2.50 TB Enumerated

2.50 TB Scheduled

2.50 TB Processed

00:02:42.2203127

Query completed. Final state: Completed. Enumerated 2.503 TB.

Processed: 2.503 TB. Results: 550.

Client Query

1 orderby PreciseTimestamp asc

2 where httpmethod != "GET"

LogsFind... prefix with '/' to negateChart

PreciseTimestampTIMESTAMPTenantRoleRoleInstanceMessageLevelProviderGuidEventId

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