Getting Network Intent Policy (NIP) errors in Kusto

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Managed Instance deployment failed due to conflict / Kusto query for conflicting resource when deploying a Managed Instance

Getting Managed Instance deployment errors in Kusto

Kusto query for full NIP conflict error message

```
MonManagement
| where nrp_response_body contains 'ConflictWithNetworkIntentPolicy'
| parse kind=regex network_resource_id with '/subscriptions/' subscription_id '/resourceGroups/' resource_grou
| where subscription_id =~ '<Subscription_ID>'
| extend nrp_error_code = extract('"[cC]ode".*?"(.*?)"', 1, nrp_response_body), nrp_error_message = extract('"
| summarize error_count = count(), latest_error_time = max(TIMESTAMP) by subscription_id, resource_group, netw
| order by subscription_id, resource_group, latest_error_time desc
```

Example partial output:

operation	nrp_error_code	nrp_error_message
PutIntentPolicyToSubnet	ConflictWithNetworkIntentPolicy	Found conflicts with NetworkIntentPoli or properties which conflict with netwc *SubscriptionId*/resourceGroups/dvTest/ with Network Intent Policy: 571f773f-d Id: /subscriptions/*Input SubscriptionId*/resourceGroups/dvTest/ testfail/routes/testroutefail, AddressPre NextHopIpAddress: conflicts with \r\n internet, Id: /subscriptions/*Input SubscriptionId*/resourceGroups/dvTest/ d27c-42a8-8977-4876a9ab6fc5/routes NextHopType: Internet, NextHopIpAdd

Understanding NIP conflict error message

Example of NIP conflict error message and explanation:

*Found conflicts with **NetworkIntentPolicy**. Details: Subnet or its Virtual Network cannot have resources or properties which conflict with network intent policy. Network Security Group: /subscriptions/*Input SubscriptionId*/resourceGroups/restore-rg/providers/Microsoft.Network/networkSecurityGroups/nsg-restorerunnermanagedserverwus conflicts with Network Intent Policy: b9f26726-1b57-4728-9288-7f428efbd5f5 Network Security Group doesn't have supporting Security Rule for Network Intent Policy Security Rule: Name: mi-allow-deployment-outbound-80-443-12000-v2, Id: /subscriptions/*Input SubscriptionId*/resourceGroups/restore-rg/providers/Microsoft.Network/networkIntentPolicies/b9f26726-1b57-4728-9288-7f428efbd5f5/securityRules/mi-allow-deployment-outbound-80-443-12000-v2, Access: Allow, Direction: Outbound, Protocol: Tcp, SourceAddressPrefix: 10.0.0.0/24, SourcePortRange: *, DestinationAddressPrefix: AzureCloud, DestinationPortRange: 80;443;12000 ---- ---- ----*

Conflicting resource : [Network Security Group (NSG)](/SQL-Managed-Instance/Troubleshooting-Guides/Create-or-Drop-Resources/Instance/Troubleshoot-common-Networking-issues) or [Route Table (RT)](/SQL-Managed-Instance/Troubleshooting-Guides/Create-or-Drop-Resources/Instance/Troubleshoot-common-Networking-issues)

Reason : No rule / Conflict with existing rule

NIP rule : find it in [Current intent policy](#)

Kusto query to fetch the messages

```
MonManagement
| where TIMESTAMP >= ago(7d)
| where request_id =~ "<subscriptionsID>"
| distinct message
```

Example Partial output:

message
Managed Instance deployment failed due to conflict with the following error related to preparation of n security group is required for subnet /subscriptions/XYZ/resourceGroups/database_westus_sqlmipool/providers/Microsoft.Network/virtualNe to get prepared.. Information about the network requirements and how to set them could be found at ([linkid=871071](#) ☒). You can find more details about this error in the virtual network Activity log.
The server encountered an unexpected exception. ---> Exception of type 'System.Exception' was encou not meet compliance 'ObjectName' so it was logged to PiiManagementExceptions with error identifier ' 9f0ca23697ae'.
The server encountered an unexpected exception. ---> Exception of type 'System.Exception' was encou not meet compliance 'ObjectName' so it was logged to PiiManagementExceptions with error identifier ' 900f6a45e1fa'.

Internal Reference

https://portal.microsofticm.com/imp/v3/incidents/details/323231599/home ☒

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