SSIS-IR [SHIR] do not start in a VNet connected to Azure VHUB
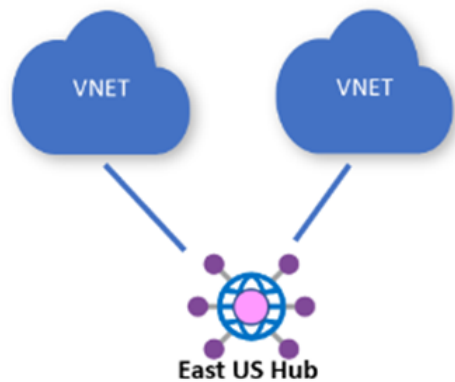
Last updated by | Anil K B | Oct 21, 2022 at 12:01 AM PDT

Contents

Scenario

When a **VNet is directly connected to the Azure Virtual Hub, and a SHIR/SSIS-IR/Injection subnet is inside the same Vnet**, then all the traffic goes

directly from that VNet to the VHub because they are directly connected. Please see below:

Inside the East US V-Hub, there might be an **Azure Firewall or an NVA** with Network rules **blocking the traffic to the internet** and thus, to the Azure Services. See this configuration:

- In this case, we see that **h-sa-analytics-test VNet(1)** (where the SSIS-IR subnet resides or any other ADF component, like SHIR) lands, has a **Azure Firewall(2)** which is secured by the **firewall and Internet traffic (Secured by Azure Firewall (3))**.
- This setup does not allow for the SSIS-IR or SHIR to communicate with Azure Batch and we will not see any Routing tables or Network Security Groups associated with the SSIS-IR and SHIR Subnet.
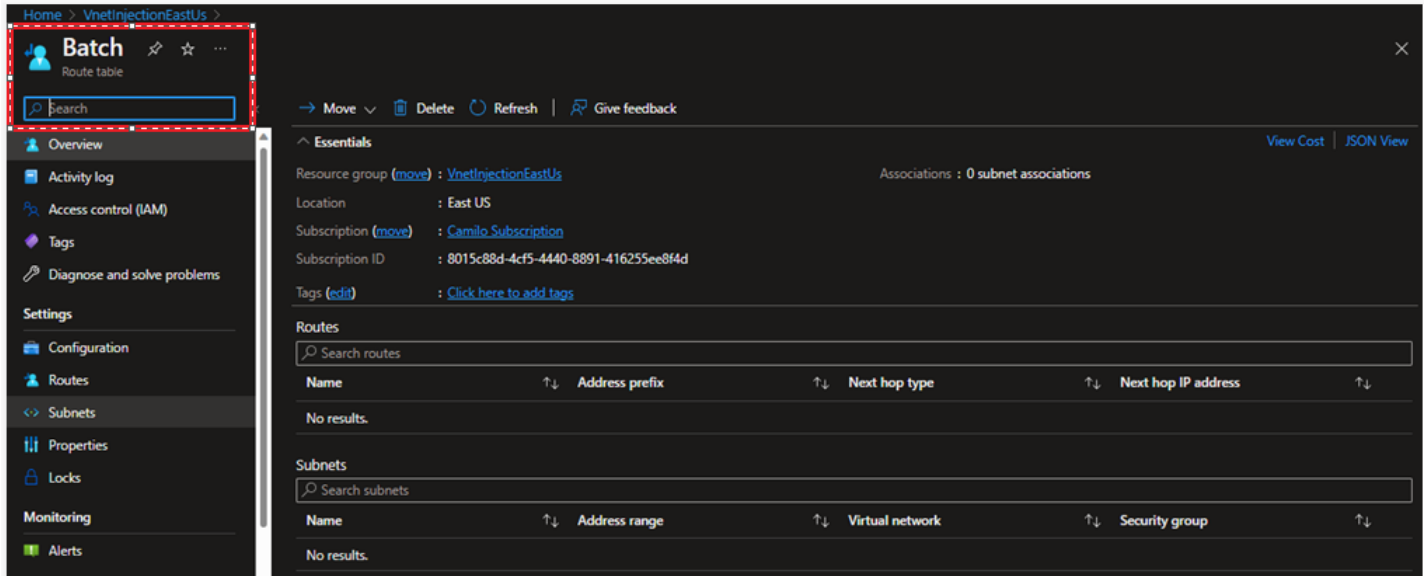
TROUBLESHOOTING AND ANALYSIS

- Please refer to above picture:

1. Ask the customer if they can temporarily Remove the **Internet traffic security (4)** for the Vnet where SSIS-IR/SHIR lands (**in this case, h-sa-analytics-test) (1)** by **selecting the correct Vnet (5)**:
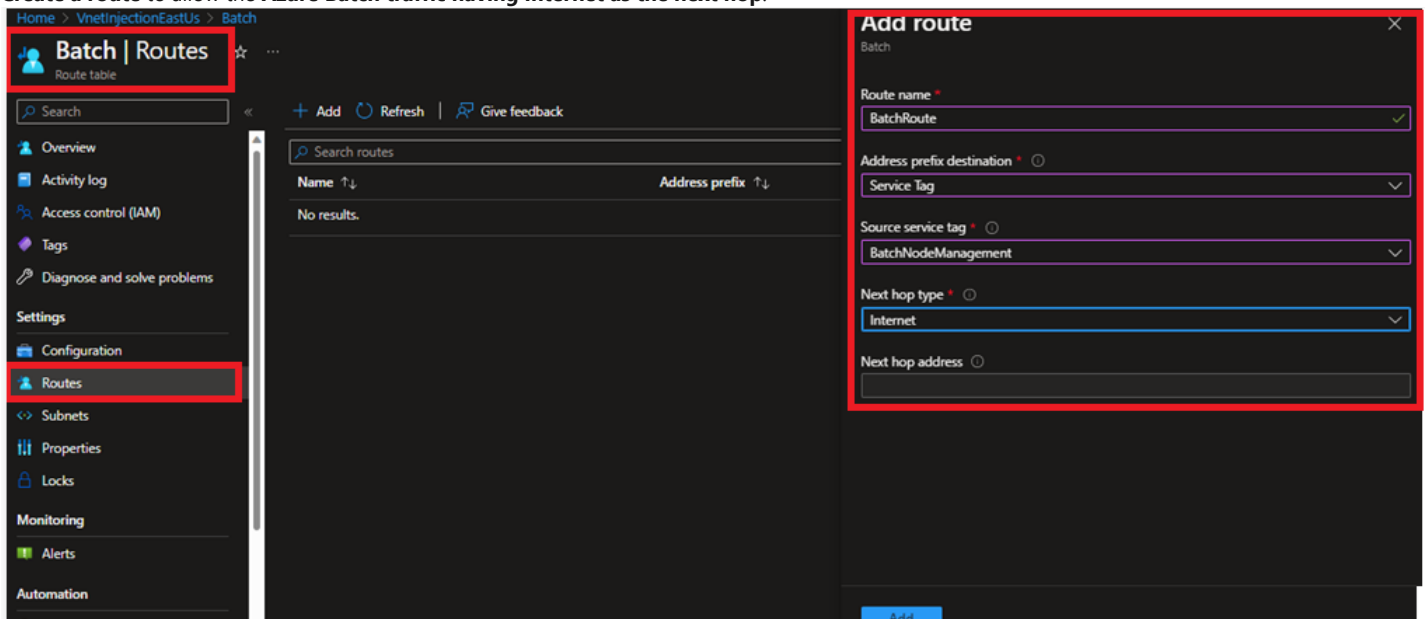2. Ask the customer to start the SSIS-IR/SHIR.

If it is successful, then the issue is from the **V-Hub configuration**.

RESOLUTION

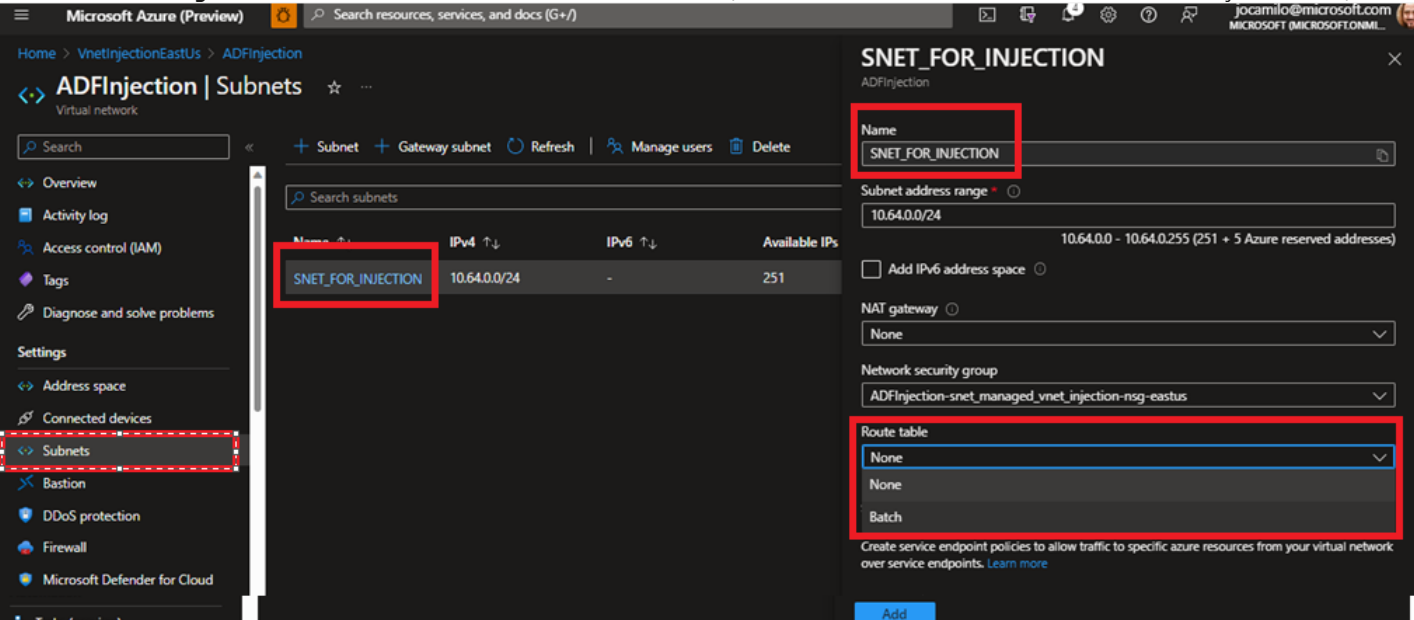1. You will need to create a routing table-https://learn.microsoft.com/en-us/azure/virtual-network/manage-route-table#create-a-route-table, if not created yet:

2. **Create a route** to allow the **Azure Batch traffic having Internet as the next hop**:

3. **Associate the routing table with the subnet where the SSIS-IR or SHIR are** (in this case, SNET_for_INJECTION subnet in the ADFInjection VNET):
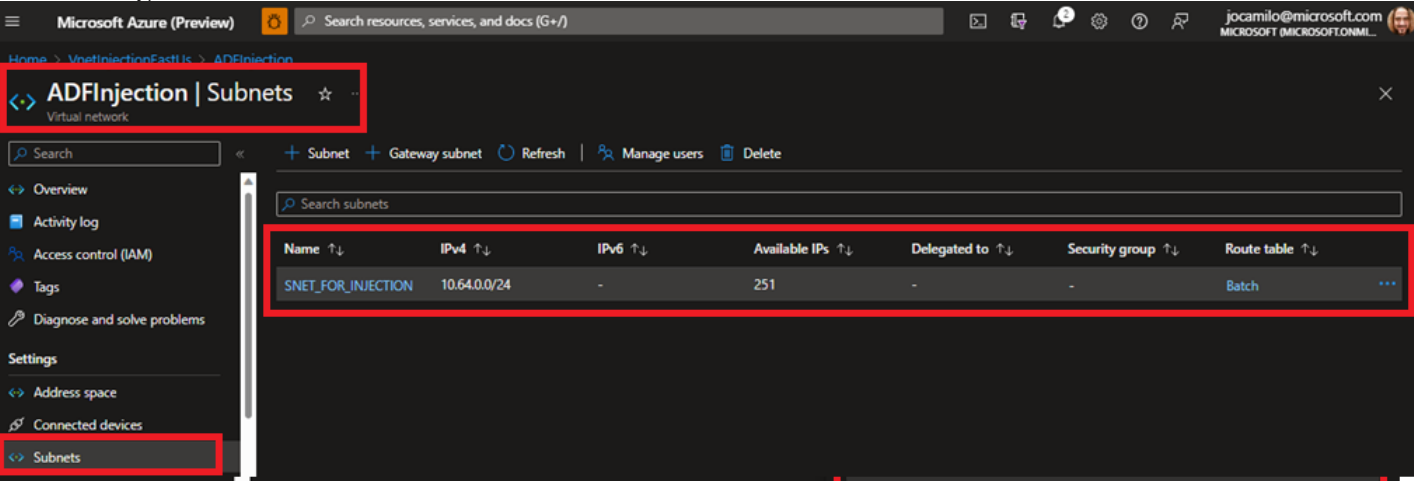

4. So that it can bypass the V-Hub (see route table column associated with the Batch route table):

IMPORTANT

1. Most of the times, customers are reluctant in allow public IP address in their VNet resources. Their concern is related with security.

2. If that is the case, please inform the customer that by having Internet as the next hop it does not mean that the traffic goes to the internet. The Azure Public IP addresses for the services will have a different routing through the Microsoft backbone.

How good have you found this content?

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