[SAP ODP] Failed to get SAP data in dataflow with managed VNET IR

Last updated by | Zhangyi Yu | Mar 28, 2023 at 12:12 AM PDT

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Issue

When ADF customers use dataflow + managed VNET IR to have SAP CDC (extract full/initial/delta data from SAP server), he may meet error during write SAP data into stage account (gen2/blob), for example:

*The remote name could not be resolved: 'ccuse2adlssltstaging.dfs.core.windows.net* ⤢'

Root Cause

Mostly the SHIR does not have permission to connect stage account (gen2/blob) to write data with wrong network settings.

Resolution

Case-1: SHIR is installed and registered on customer's physical machine

The following is full flow of running dataflow activity with SAP + Managed VNET IR:
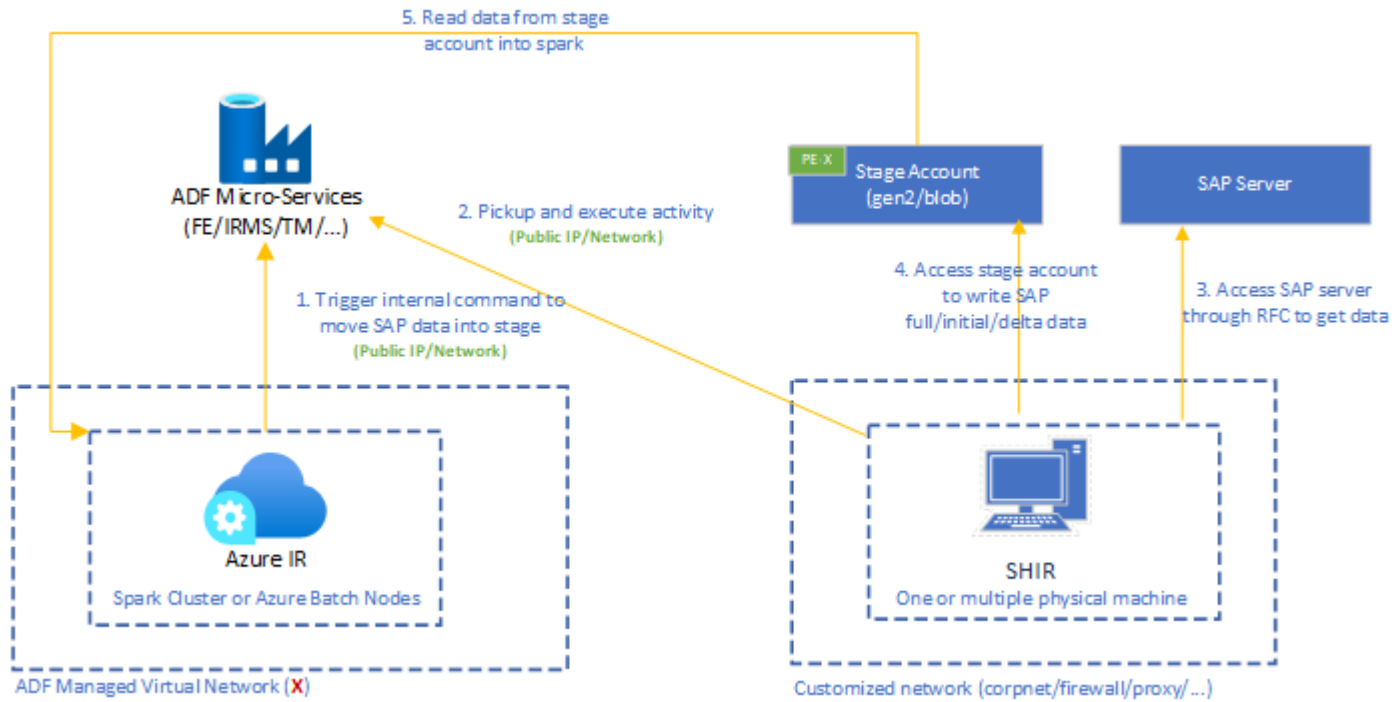
If stage account (gen2/blob) has created private endpoint, the SHIR cannot directly connect to it, the customer must whitelist SHIR IP in related stage account, for example:

yanshblobuean | Networking

Storage account

Search «	**Firewalls and virtual networks** Private endpoint connections Custom doma
Overview	
Activity log	🖫 Save ✕ Discard ⟳ Refresh
Tags	
Diagnose and solve problems	Public network access
Access Control (IAM)	○ Enabled from all networks
Data migration	⦿ Enabled from selected virtual networks and IP addresses **2**
Events	○ Disabled
Storage browser	ℹ Configure network security for your storage accounts. Learn more ↗
storage	**Virtual networks**
Containers	＋ Add existing virtual network ＋ Add new virtual network
rity + networking	**Virtual Network** **Subnet** **Address range**
Networking **1**	No network selected.
Azure CDN	**Firewall**
Access keys	Add IP ranges to allow access from the internet or your on-premises networks. Learn mor

Address range	
167.220.255.48	**3** 🗑

Note:

1. If customer's SHIR has enabled proxy, or SHIR machine enable VPN, he should provide converted IP in the whitelist.

2. For storage account, if customer enabled both "all networks" and "private endpoint connections". The "private endpoint connections" will be honored and used first. So SHIR cannot directly connect to it.

Storage account

Search «	**Firewalls and virtual networks** Private endpoint connections
Access Control (IAM)	
Data migration	🖫 Save ✕ Discard ⟳ Refresh **If customer has enabled from all networks**
Events	**while create PE under tab "Private endpoint**
	Public network access **connections". The PE settings will be**
Storage browser	⦿ Enabled from all networks⟵ **honored first.**
storage	○ Enabled from selected virtual networks and IP addresses
	○ Disabled
Containers	ℹ All networks, including the internet, can access this storage account. Learn more ↗

Case-2: SHIR is installed and registered on Azure VM
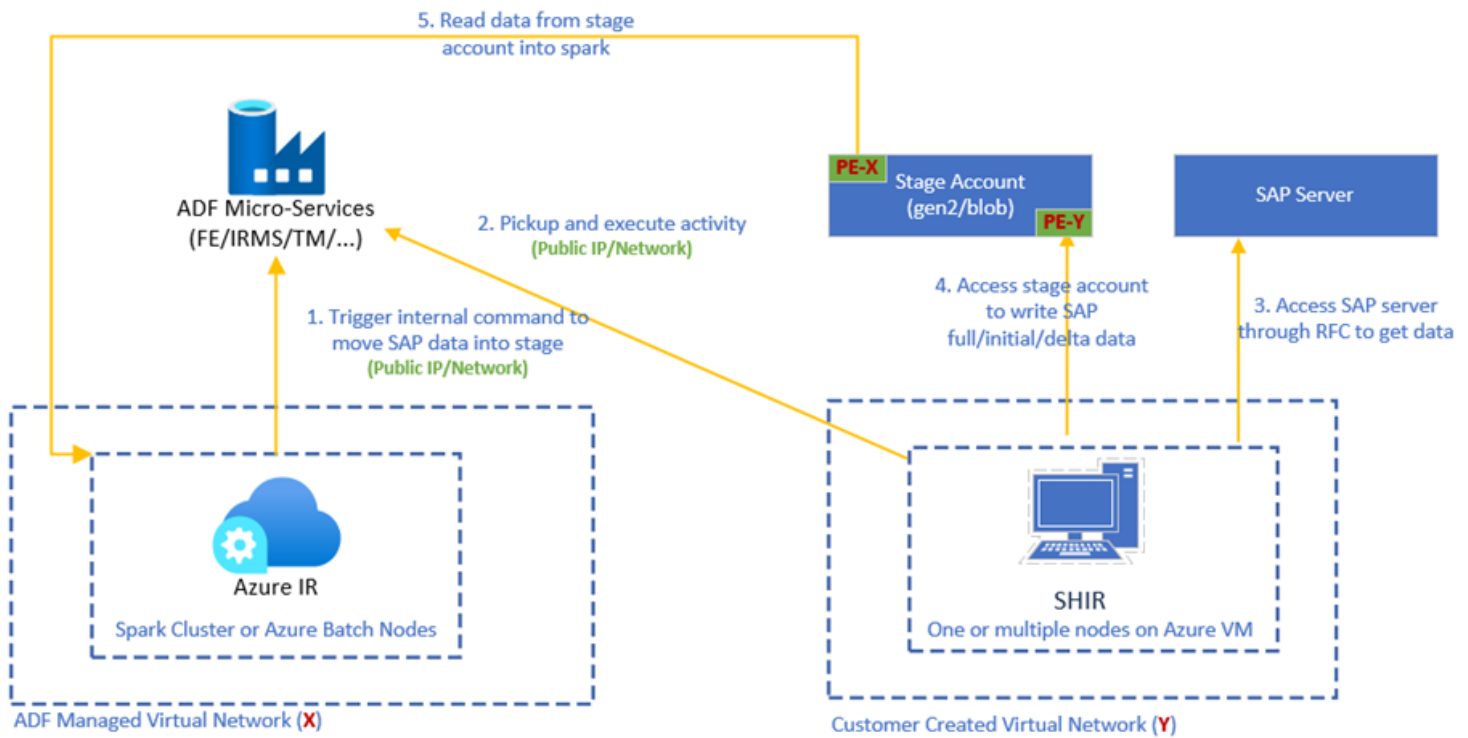
Here it has ADF managed virtual network (X) and customer created virtual network (Y, SHIR is installed on VM in this subnet), the customer must manually create PE-Y on stage account to ensure the SHIR can connect it.

Additional Information:

- Icm Reference: N/A
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