

How to get private DNS zone list in Managed VNet

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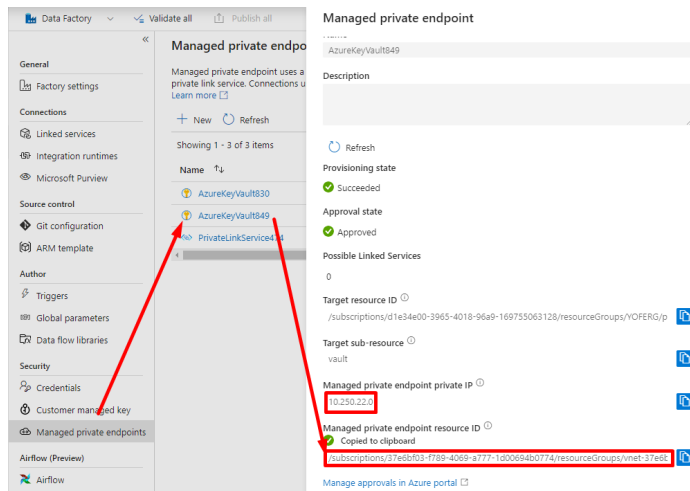
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Background

When we create Managed Private Endpoint, a private DNS zone will be created within the Managed VNet. Sometimes when we troubleshoot issues like connection via Managed Private Endpoint (MPE) gets DNS resolution error, we need to check private DNS zone. This TSG will provide the details steps on how to get private DNS zone list in Managed VNet.

How to get info of managed private endpoint (MPE)

In ADF, get MPE resource ID as below:



For example in below resource ID, the MPE name is yofedemo.AzureKeyVault84. We could also get MVNet name, for example in below resource ID, the MVNet name is vnet-37e6bf03-southeastasia-420.

`/subscriptions/37e6bf03-f789-4069-a777-1d00694b0774/resourceGroups/vnet-37e6bf03-southeastasia-420-rg/providers/Microsoft.Network/privateEndpoints/yofedemo.AzureKeyVault849`

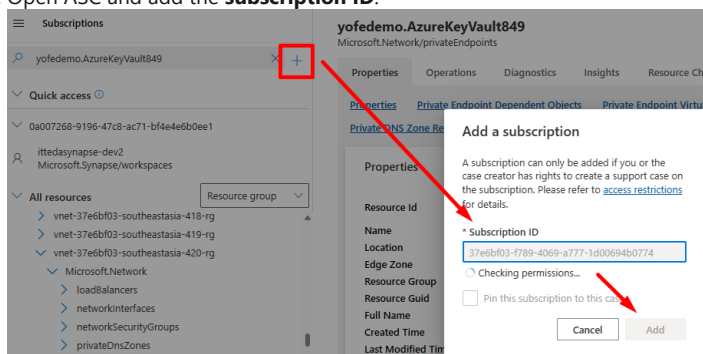
From here, we could also get the private IP of MPE.

How to get private DNS zone info from ASC

Based on MPE resource ID now we have:

- (managed) subscription ID
- MPE name.

1. Open ASC and add the **subscription ID**.



2. Search for the **MPE name**.

The screenshot shows the Azure portal search results for the resource 'yofedemo.AzureKeyVault849'. The search bar contains the text 'yofedemo.AzureKeyVault849'. Below the search bar, there are tabs for 'Properties', 'Operations', and 'Diagnostics'. The 'Properties' tab is selected, showing the resource details for 'yofedemo.AzureKeyVault849' under the provider 'Microsoft.Network/privateEndpoints'. The 'Private DNS Zone Record Sets' link is visible in the left sidebar.

We could get the properties of this MPE.

The screenshot shows the 'Properties' tab of the private endpoint 'yofedemo.AzureKeyVault849'. The properties are listed in a table:

Property	Value
Resource Id	/subscriptions/37e6bf03-f789-4069-a777-1d00694b0774/resourceGroups/VNET-37e6bf03-51RG/providers/Microsoft.Network/privateEndpoints/YOFEDEMO.AZUREKEYVAULT849
Name	yofedemo.AzureKeyVault849
Location	southeastasia
Edge Zone	N/A
Resource Group	vnet-37e6bf03-southeastasia-420-rg
Resource Guid	fed58139-aa59-4581-afb0-2cbca98647b
Full Name	yofedemo.AzureKeyVault849
Created Time	02/11/2023 07:20:21
Last Modified Time	02/11/2023 07:21:04
Last Operation Id	0668d3ae-a5ab-4832-8bab-5f712c103a80
Last Operation Type	Microsoft.WindowsAzure.Networking.Nrp.Frontend.Operations.Csm.PutPrivateEndpointOper
Provisioning State	Succeeded
Custom Network Interface Name	False
Connection State Status	Approved
Connection Approval Method	Manual
Private DNS Zone	privatelink.vaultcore.azure.net.dnszonegroupconfig

3. On the left, expand the **privateDnsZones** section, we will see all Private DNS Zones within this VNet and this ADF/Synapse workspace.

The screenshot shows the 'All resources' view in the Azure portal. The 'privateDnsZones' section is expanded, showing a list of private DNS zones:

- eastus.cloudapp.azure.com
- privatelink.vaultcore.azure.net
- southeastasia.azure.synapse.net

The 'privateEndpoints' section is also expanded, showing a list of private endpoints:

- vnet-37e6bf03-southeastasia-420-1-cs-ple
- vnet-37e6bf03-southeastasia-420-1-ts-ple
- vnet-37e6bf03-southeastasia-420-cs-ple
- vnet-37e6bf03-southeastasia-420-ts-ple
- yofedemo.AzureKeyVault830
- yofedemo.AzureKeyVault849
- yofedemo.PrivateLinkService474

4. Click on the Private DNS Zone which you'd like to check. You will see **DNS RecordSets (download CSV)** as below to download.

The screenshot shows the details of the private DNS zone 'privatelink.vaultcore.azure.net'. The 'Private DNS Zone' tab is selected, showing the following properties:

Property	Value
Resource URI	/subscriptions/37e6bf03-f789-4069-a1rg/providers/Microsoft.Network/privateDnsZones/privatelink.vaultcore.azure.net
Name	privatelink.vaultcore.azure.net
Type	Microsoft.Network/privateDnsZones
Resource Group	vnet-37e6bf03-southeastasia-420-rg
Etag	N/A
Location	N/A
Created Date	08/28/2022 07:52:16
Modified Date	08/28/2022 08:03:24
Tags	N/A
Max Number of Record Sets	25000
Number of Record Sets	3
Link to Record Sets	DNS RecordSets (download CSV)
Max Number of Virtual Network Links	1000

5. Below is a RecordSets file example, we could see the FQDN and the IP address:

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```
{
  "metadata": {
    "creator": "created by private endpoint yofedemo.Azure"
  },
  "fqdn": "yofedemo.privatelink.vaultcore.azure.net.",
  "ttl": 10,
  "aRecords": [
    {
      "ipv4Address": "10.250.22.0"
    }
  ]
}
```

	A	B	C	D	E	F	G	H	I	J
1	Name	Type	Properties							
2	@	SOA	{							
3	yofedemo A		{							
4	yofesqldb A		{							