Move Flexible Server to Customer Private DNS Zone

Last updated by | Rajani Kumari Veluvali | Mar 22, 2023 at 12:06 PM PDT

In early stages of Flexible Server we supported Private DNS Zone owned by Microsoft. All new servers starting Public Preview require customer to provide their own Custom DNS zones for Vnet integrated servers.

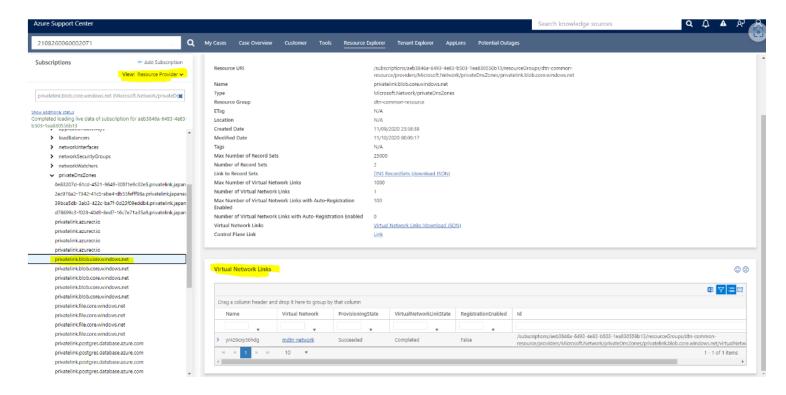
We still have ~150 customer servers in the old state, which we would need to migrate on demand.

Steps to execute migration are described here:

What you need?

- 1. Server Name
- 2. Region
- 3. Private DNS zone resource ID. e.g. /subscriptions/aeb3846a-6493-4e83-b503-1ea830556b13/resourceGroups/dtn-common-resource/providers/Microsoft.Network/privateDnsZones/privatelink.blob.core.windows.net

This is the private dns zone that we need to move the server to. Make sure that this private DNS Zone is linked to the customers VNET in ASC



Check private DNS zone information for the server

- 1.Get orcas_instance_id from "orcasbreadth servers.xts" view
- 2.Query dbo.entity_azure_private_dns_zone to validate whether the server is in customer dns zone already (is_customer_private_dns_zone)

e.g. select * from dbo.entity_azure_private_dns_zone where associated_orcas_instance_id_list_json like '%f27025b6-332b-4849-83e2-829da8fbbd7c%'

Run Command

Reset-PrivateDnsZone - PrivateDnsZoneArmResourceId {private dns zone resource id} - ServerName {servername}

Verify the changes in CMS after running above command

select * from dbo.entity_azure_private_dns_zone where associated_orcas_instance_id_list_json like '%f27025b6-332b-4849-83e2-829da8fbbd7c%'

Make sure the entity is in Succeeded state.

If not, use the request_id you got back from Reset-PrivateDnsZone command and check which step it got stuck.

If it got stuck at dropOldPrivateDnsRecord with below exception, use this CAS to set the FSM to Completed

Set-OrcasBreadthFSMState -TableName tbl operation move private dns zone -Keys <key> -ExpectedCurrentState DropOldPrivateDnsRecord -NewState Completed -CabId 123123 -Force

If the entity state is still Moving in the entity_azure_private_dns_zone table, move it to Succeeded state by running the below command. Keys will be the id column in the very same table.

```
Set-OrcasBreadthEntityState -TableName "entity azure private dns zone" -Keys CCD46E1F-2FC7-45D7-8BAA-
7D3B2823C03F -ExpectedCurrentState Moving -NewState Succeeded -CabId 123123 -Force
```

<Exception><Message>Can not perform requested operation on nested resource. Parent resource 'peacudbp001.private.postgres.database.azure.com 🛭 ' not found.</Message> <Type>Microsoft.Rest.Azure.CloudException</Type><StackTrace>

Query All Servers which still use Customer owned Private DNS Zone:

- 1. open 'orcasbreadth\global adhoc breadth cms query.xts' in XTS
- 2.Run the following Query

```
Select * From
   select * from dbo.entity azure private dns zone
   where is customer private dns zone = 0 and state = 'Succeeded'
   and private dns zone name not like 'runner%' and private dns zone name not like '%flexvnet%'
   and private dns zone name not like 'portal-e2e%'
   and associated_orcas_instance_id_list_json <> ''
  as activeDns
left join entity orcas servers srv on activeDns.associated orcas instance id list json like '%' + convert(varc
where srv.state not in ('Disabled', 'Tombstoned')
```

In result filter out Stage and Canary environments.