

# 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

The screenshot displays the Azure Support Center interface. The top navigation bar includes 'My Cases', 'Case Overview', 'Customer', 'Tools', 'Resource Explorer', 'Tenant Explorer', 'AppLens', and 'Potential Outages'. The 'Resource Explorer' pane is active, showing a tree view of subscriptions. The selected subscription is 'privatelink.blob.core.windows.net'. The right pane shows the details of the selected resource, including its URI, Name, Type, and various properties. Below the resource details, the 'Virtual Network Links' table is displayed, showing a single link with ID 'ym429cy56hdg' and state 'Completed'.

Name	Virtual Network	ProvisioningState	VirtualNetworkLinkState	RegistrationEnabled	Id
ym429cy56hdg	mtn-network	Succeeded	Completed	False	/subscriptions/aeb3846a-6493-4e83-b503-1ea830556b13/resourceGroups/dtn-common-resource/providers/Microsoft.Network/privateDnsZones/privatelink.blob.core.windows.net/virtualNetworkLinks/ym429cy56hdg

## 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 state.

```
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.