

# Cannot change the Private DNS Zone for a VNET integrated server

Last updated by | Daniel Valero | Nov 11, 2022 at 7:44 AM PST

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## Issue

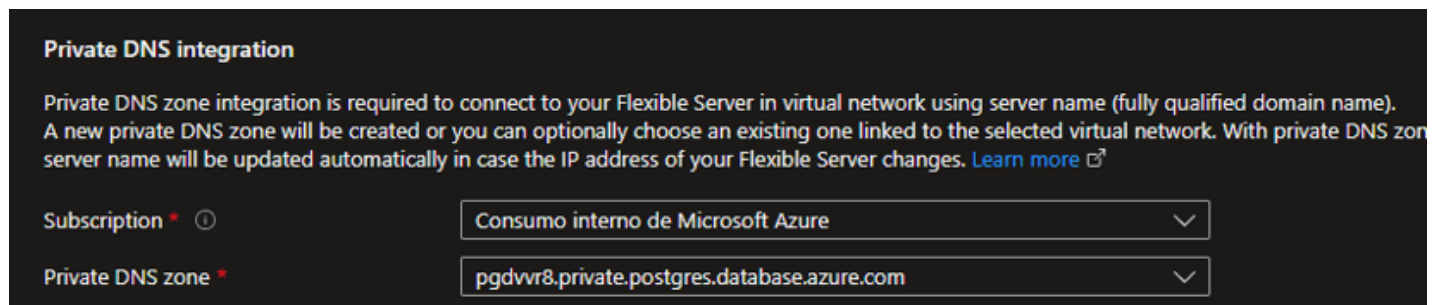
Cannot change the Private DNS Zone for a VNET integrated server

## Background information

Using Azure Portal, CLI or ARM, you can also change private DNS Zone from the one you provided when creating your Azure Database for PostgreSQL - Flexible Server to another private DNS zone that exists the same or different subscription.

Below an example using the Portal

- Original Private DNS Zone



The screenshot shows the 'Private DNS integration' section in the Azure Portal. It contains a descriptive paragraph about private DNS zone integration, followed by two dropdown menus. The first dropdown is labeled 'Subscription' and has 'Consumo interno de Microsoft Azure' selected. The second dropdown is labeled 'Private DNS zone' and has 'pgdvr8.private.postgres.database.azure.com' selected.

**Private DNS integration**

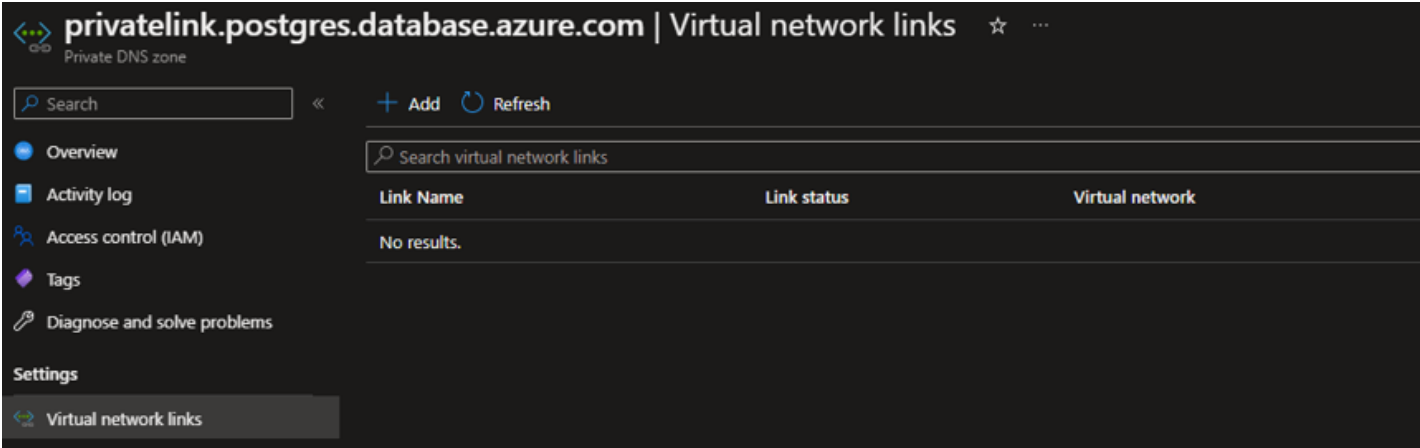
Private DNS zone integration is required to connect to your Flexible Server in virtual network using server name (fully qualified domain name). A new private DNS zone will be created or you can optionally choose an existing one linked to the selected virtual network. With private DNS zone, server name will be updated automatically in case the IP address of your Flexible Server changes. [Learn more](#)

Subscription \* ⓘ Consumo interno de Microsoft Azure ▼

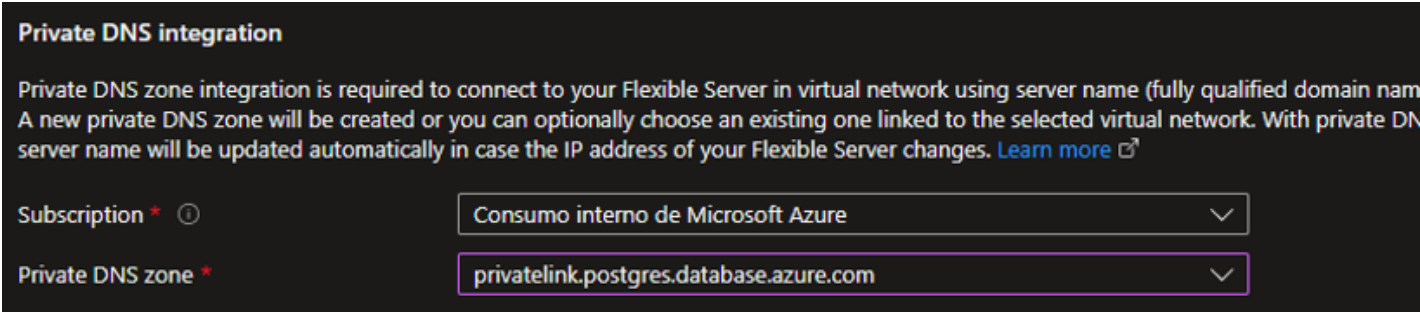
Private DNS zone \* pgdvr8.private.postgres.database.azure.com ▼

When you change the Private DNS Zone, a Network Virtual Link between the database server VNET and the new private DNS is created (if it does not exist already) automatically

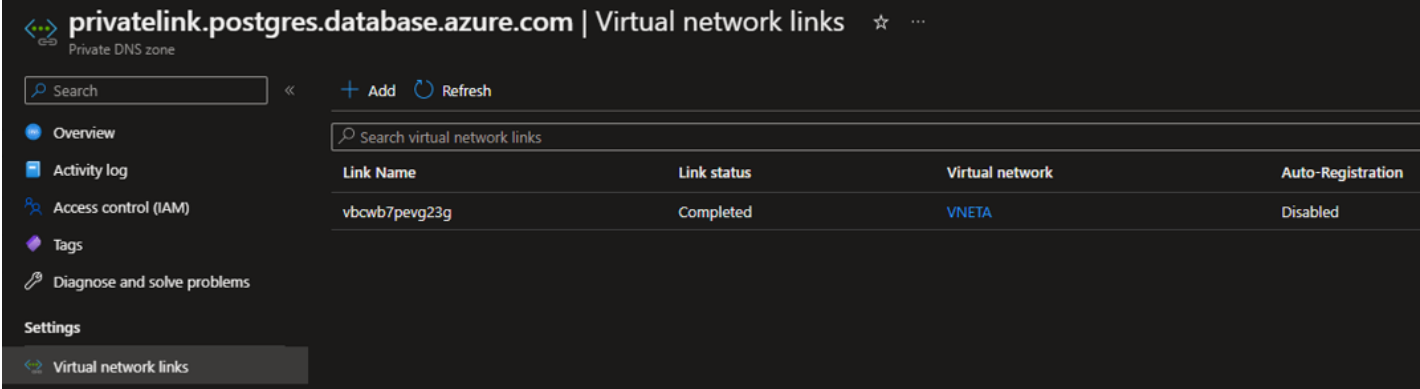
In the example below you can see the Virtual Network Link in the target Private DNS Zone does not exist



- Just select the new one and save



After changing the Private DNS Zone for the server, the Virtual Network link exists (it was created automatically)



Possible Issues

Issue 1 - There is Lock in the target Private DNS Zone

The operation fails with error similar to

- For Delete Locks:

```
{
  "status": "Failed",
  "error": {
    "code": "OperationFailed",
    "message": "Operation on resource privatelink.postgres.database.azure.com under resource type Privat
  }
}
```

- For Read Only Locks:

```
{
  "status": "Failed",
  "error": {
    "code": "OperationFailed",
    "message": "Operation on resource privatelink.postgres.database.azure.com under resource type Privat
  }
}
```

An example below

server\_fc6189a34bde456287d6d5b211e73618 | Overview

Deployment failed. Click here for details →

### Your deployment failed

Deployment name: PostgreSQLFlexibleServer\_fc6189a34bde456287... Start time: 11/11/2022, 9:19:28 AM  
 Subscription: Consur Correlation ID: 9  
 Resource group: todelete

#### Deployment details

Resource	Type	Status
pgdvvr8	Microsoft.DBforPostgreSQL/flexibleServers	Conflict

#### Operation details

Operation ID: /subscriptions/.../resourceGroups/t.../p...

Operation name: ...

Provisioning operation: Create

Provisioning state: Failed

Timestamp: 11/11/2022, 9:20:32 AM

Duration: 1 minute 2 seconds

Tracking ID: ...

serviceRequestid: ...

Status: Conflict

Status message:

```
1 {
2   "status": "Failed",
3   "error": {
4     "code": "OperationFailed",
5     "message": "Operation on resource privatelink.postgres.database.azure.com under resource type Privat
6   }
7 }
```

### Solution:

- Remove the lock on the Private DNS Zone
- Change the Private DNS Zone for the database server
- Add the lock back

Issue 2 - Getting error "A virtual network cannot be linked to multiple zones with overlapping namespaces"

When changing the Private DNS Zone, the operation fails with error "A virtual network cannot be linked to multiple zones with overlapping namespaces"

```
{
  'status': 'Failed',
  'error': {
    'code': 'DeploymentFailed',
    'message': 'At least one resource deployment operation failed. Please list deployment operations for de
    'details': [
      {
        'code': 'Conflict',
        'message': '{\r\n  \'status\': \'Failed\',\r\n  \'error\': {\r\n    \'code\': \'
      }
    ]
  }
}
```

This is an expected error under the following circumstances:

- CX has an Azure Private DNS Zone named A in a subscription X
- CX has another Azure Private DNS Zone named A in subscription X or any other subscription
- The database server is deployed on VNET/Subnet
- If there is already a Virtual Network Link between the VNET for the database server and an Azure Private DNS Zone with name A, and you try to change the Private DNS Zone for the server to another Azure Private DNS Zone with name A (different to the one where the Virtual Network Link already exists) the Virtual Network Link creation will fail and the change of the Private DNS Zone will fail. Creating the Network Virtual Link manually first will also fail.

**Reason:** A VNET cannot have Virtual Network Links to two different Azure Private DNS Zones with the same name, in the same or different subscriptions.

You can view existing Virtual Network Links for an Azure Private DNS Zone in ASC

The screenshot shows the Azure portal interface. On the left, the 'Quick Access List' sidebar is visible, with 'Microsoft.Network' selected. The main pane displays the 'Virtual Network Links' section for a Private DNS Zone. The table below shows the details of the Virtual Network Links.

Name	Virtual Network	ProvisioningState	VirtualNetworkLinkState	RegistrationEnabled
vbcwb7pevg23g	<a href="#">VNETA</a>	Succeeded	Completed	False

## Solutions:

- Cx can use the Azure Private DNS Zone where the Virtual Network Link already exists
- Cx can delete the Virtual Network Link from the Azure Private DNS Zone where it already exists. However, removing the link could break name resolution for existing resources on VNET, so it is up to the Cx to confirm nothing will break if they delete the link.

IMPORTANT: The solution to implement is up to the Customer