Flexible Sever DNS configuration for private access (VNET)

Last updated by | Dandan Zhang | Sep 14, 2021 at 2:30 PM PDT

Issue:
Flexible Server is not resolving hostname or gives unknown host when running nslookup
DNS configuration for Flexible Server depends on the following:

1. Server network settings (has private DNS zone or not):
2. Does the customer uses Custom DNS or Azure DNS
3. Is he calling server name from same VNET or peered VNET.

Solution:
Now let us go to details and case by cases.
more info in document:
https://microsoft-my.sharepoint.com/:w:/p/sunila/EUIi8y90Nd1OkIPjzWMeWk8BTcescP5sd-xGxVunk810WQ?e=UZumMA ☐

a) Server does not have private DNS zone (private DNS zone was not created in server creation):

Please ask customer to create Private DNS zone and file an ICM to migrate existing servers to private DNS zone:
https://portal.microsofticm.com/imp/v3/incidents/details/247517308/home ☐

We need to ask customer to do this two things before escalation:

1. Create a private DNS zone in their subscription ending with postgres.database.azure.com ☐.

2. Link the private DNS zone to the VNET they used to create PostgreSQL server.

2) Azure DNS:

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if server and app in Same VNET: it will work without any issues.
if server and app in Different VNET: he needs to setup a VM to forward requests, please check link below for t
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https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-name-resolution-for-vms-and-role-instances#name-resolution-that-uses-your-own-dns-server ☐

b) Server has private DNS zone:

1) Private DNS:

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if server and app in Same VNET: a rule in DNS to forward requests to postgres.database.azure.com using 168.63.
if server and app in Diff VNET: a rule in DNS to forward requests to postgres.database.azure.com using 168.63.
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2) Azure DNS:

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if server and app in Same VNET: it will work without any issues.
if server and app in Diff VNET: create a link in private DNS zone to the peered network.
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