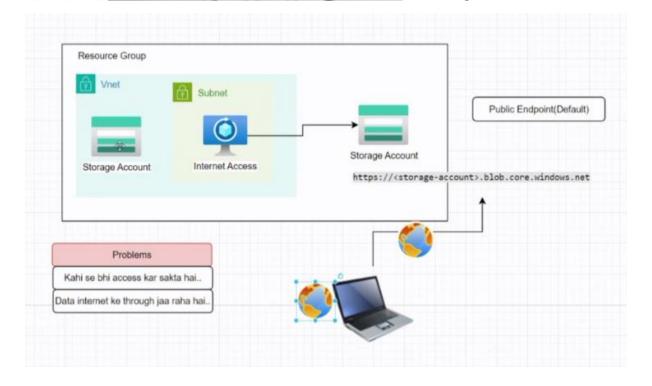
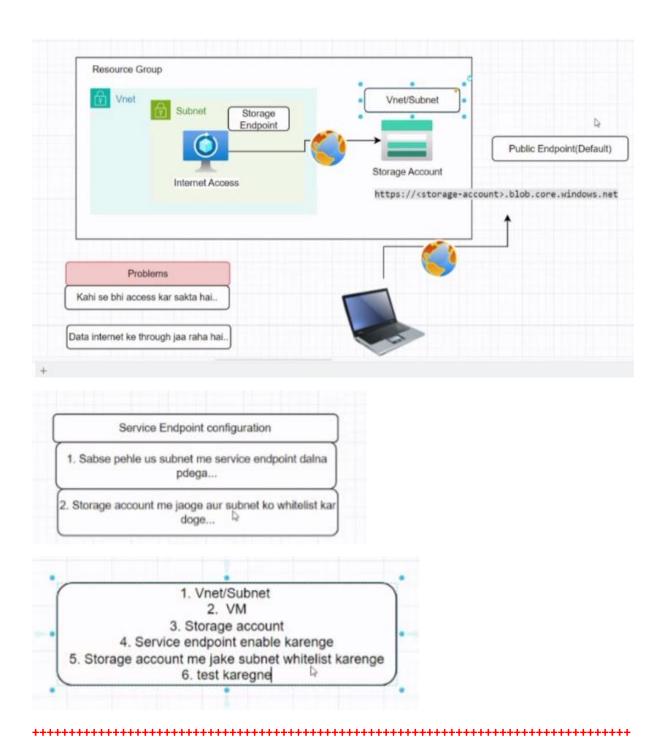
Assignment - Azure Firewall + UDR Rules

NSG - Network Security Group

ASG - Application Security Group

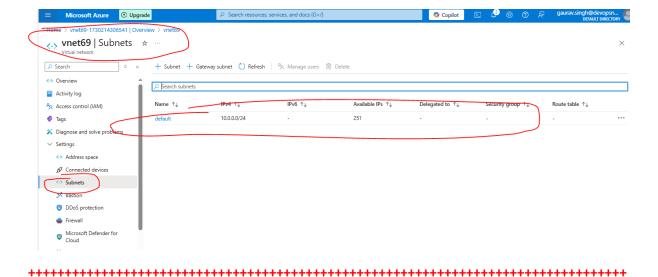
Difference between Loadbalancer, Application Gateway, Frontdoor, Traffic Manager





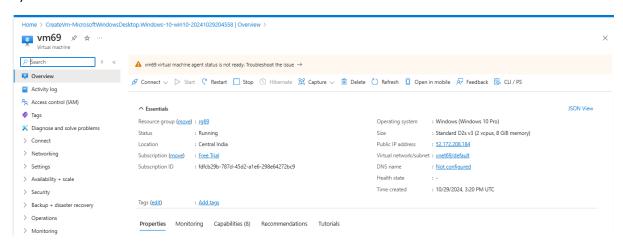
AGENDA - Create vnet + subnet

1)

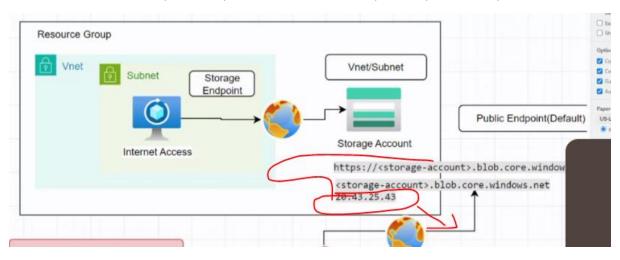


AGENDA - Create vm of vm image (OS)

1)

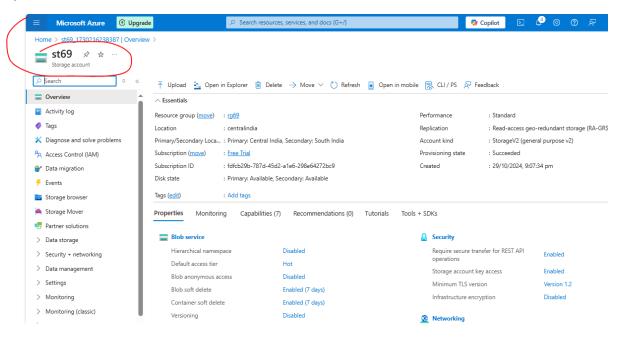


2) The IP we have in url is public only whether its service end point or private end point

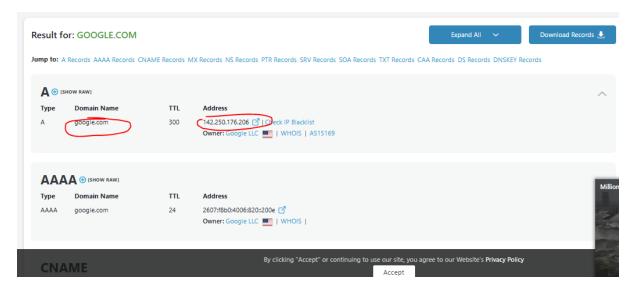


AGENDA - Create storage account +container+ sas url

1)

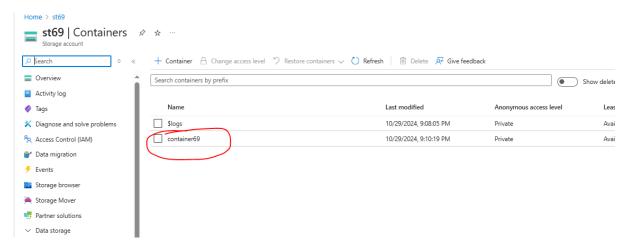


2) Search – DNS checker – takes out ip address of website

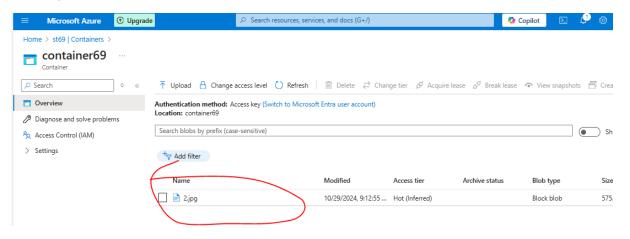


Storage service	Endpoint
Blob Storage	https:// <storage-account>.blob.core.windows.net</storage-account>
Static website (Blob Storage)	https:// <storage-account>.web.core.windows.net</storage-account>
Data Lake Storage	https:// <storage-account>.dfs.core.windows.net</storage-account>
Azure Files	https:// <storage-account>.file.core.windows.net</storage-account>
Queue Storage	https:// <storage-account>.queue.core.windows.net</storage-account>
Table Storage	https:// <storage-account>.table.core.windows.net</storage-account>

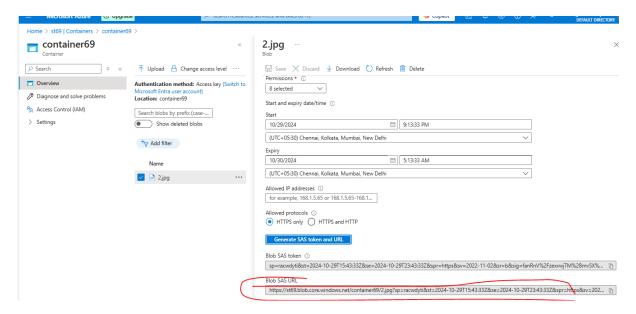
3) Create container



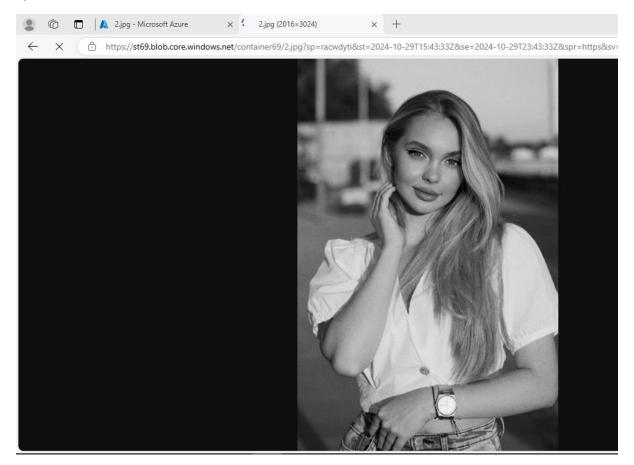
4) Now put file into it



5) Generate sas

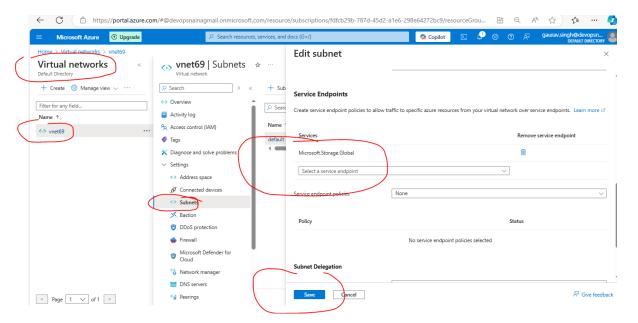


6) Access url on browser

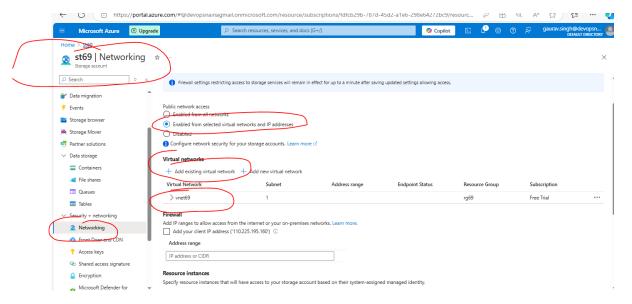


<u>AGENDA – Want that above blob url should access only by that subnet which</u> is inside out vnet

1) For Enabling service point -> Go to vnet -> subnet -> default -> Service endpoints -> Microsoft.service.global -> save



2) Go to storage account -> networking -> Enabled from selected virtual networks and IP addresses -> Enable service point -> Add existing virtual network – save. So service end point is put at subnet level



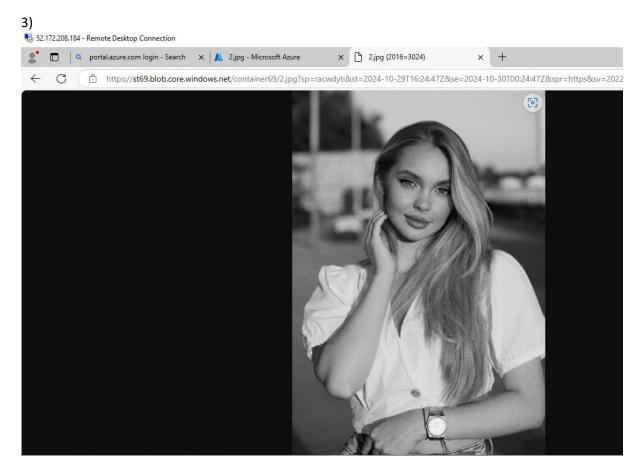
3) Now again try to access blob url of uploaded image in container, so its not accessible because we have restricted to as specific subnet in vnet

\$ 6 □	-	ō		
← C 🖒 https://st69.blob.core.windows.net/container69?sp=racwdli&ist=2024-10-29T15:59:19Z&se=2024-10-29T23:59:19Z&spr=https&sv=2022-11-02&sr=c&sig=6WTYAi6 😭	₹`≡	•••		
This XML file does not appear to have any style information associated with it. The document tree is shown below.				
▼ <error> <code>AuthenticationFailed</code> <gode>AuthenticationFailed <gode>AuthenticationFailed</gode> <gode>AuthenticationFailed</gode> <gode>AuthenticationFailed</gode> Zols:76000000 Time:2024-10-29715:59:39.45819372</gode> Zols:76000000 Time:2024-10-29715:59:39.45819372 Zols:76000000 Time:2024-10-29715:59:39.45819372 Zols:76000000 Time:2024-10-29715:59:19Z 2024-10-29723:59:19Z /blob/st69/\$root https 2022-11-02 c <gode>AuthenticationErrorDetail>String to sign used was racwdli 2024-10-29715:59:19Z 2024-10-29723:59:19Z /blob/st69/\$root https 2022-11-02 c <gode>AuthenticationErrorDetail> <gode> Zols:76000000 Time:2024-10-29715:59:19Z 2024-10-29723:59:19Z /blob/st69/\$root https 2022-11-02 c <gode> Zols:76000000 Time:2024-10-29715:59:19Z 2024-10-29723:59:19Z /blob/st69/\$root https 2022-11-02 c Zols:760000000 Time:2024-10-29715:59:19Z 2024-10-29723:59:19Z /blob/st69/\$root https 2022-11-02 c Zols:76000000000000000000000000000000000000</gode></gode></gode></gode></error>	.57-571b	-		

4) We checked in dns look up, still blob url has public ip

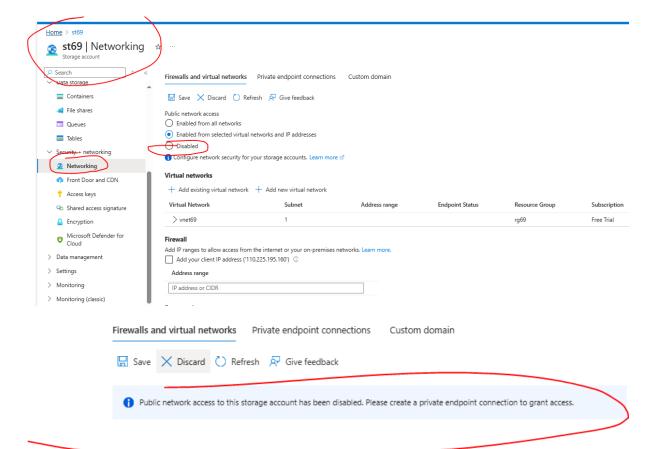
AGENDA – CONNECT TO VM NOW

- 1) Do rdp in vm
- 2) Run same blob url then it will run inside vm

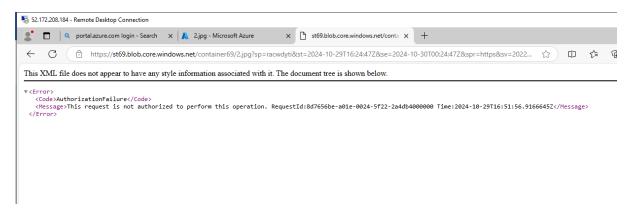


AGENDA – disable public endpoint

1) Go to storage end point and Now disable public end point

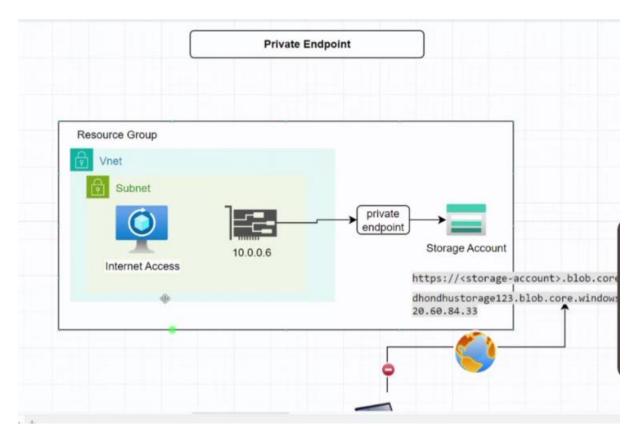


2) Now inside vm also we will not be to access blob url

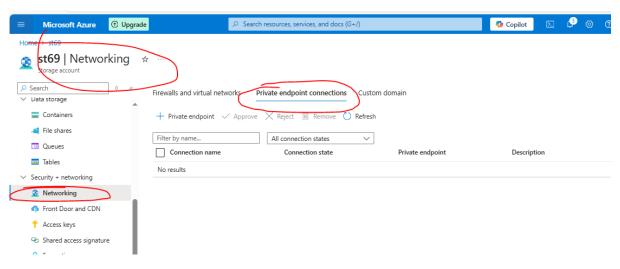


AGENDA – CREATE private endpoint

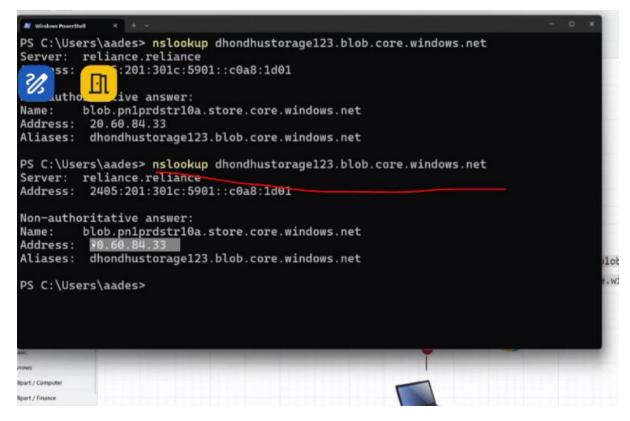
1) When we enable private end point, then a nic card is created in vet and an ip address is allocated on this nic card



2) go to st acc -> private end point connections

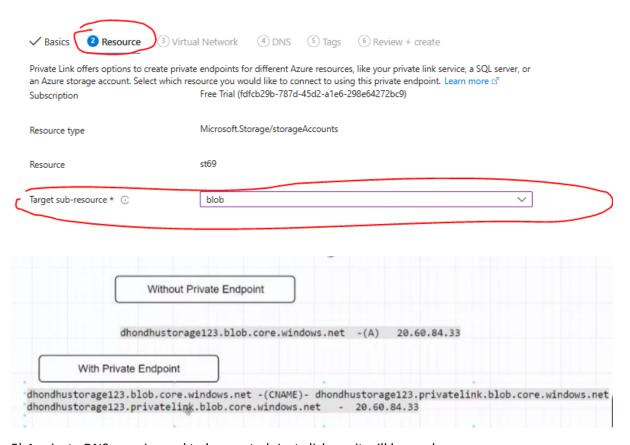


3) nslookup tool

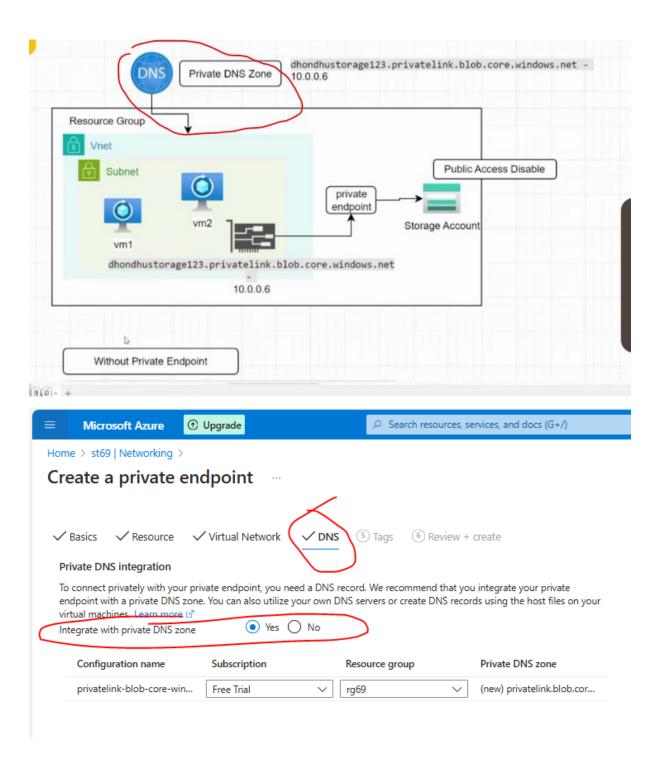


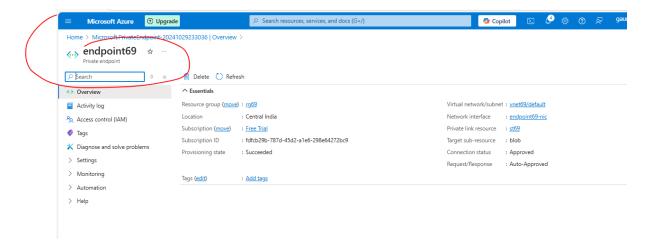
4) Now create private end point

Create a private endpoint

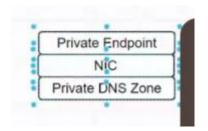


5) A private DNS zone is need to be created. Just click yes it will be made

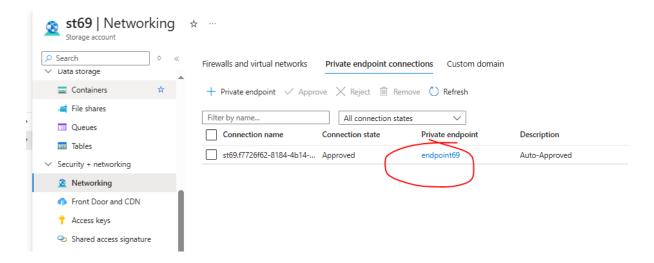


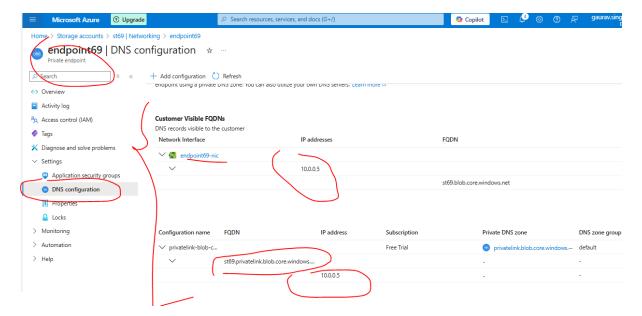


6) So now resources created will be

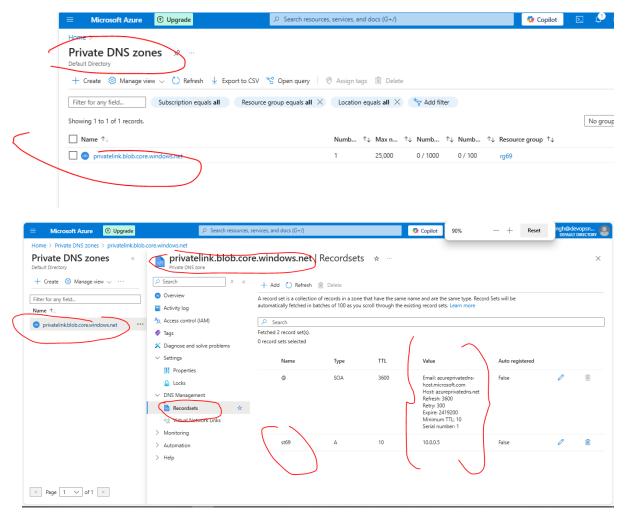


- 7) Basically dns zone is optional but then we have to set up private ip and other things manually
- 8) Now go to storage account -> networking -> private end point -> click on name -> DNS configuration ->





9) Go to private dns zones – so there is one created



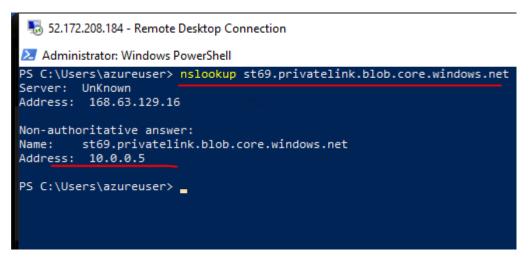
10)

privatelink.blob.core.windows.net

st69 - 10.0.0.5

- => st69.privatelink.blob.core.windows.net
- 11) Go inside vm and open powershell

nslookup st69.privatelink.blob.core.windows.net



12) Now do in local comp which shows public ip

```
Windows PowerShell

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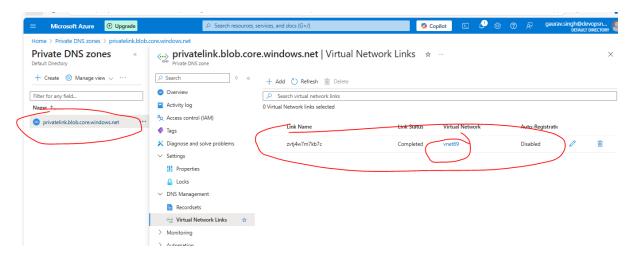
Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\HP> nslookup st69.privatelink.blob.core.windows.net
Server: UnKnown
Address: 2404:a800:0:14::1:1010

Non-authoritative answer:
Name: blob.pnq22prdstr02a.store.core.windows.net
Address: 20.38.127.4
Aliases: st69.privatelink.blob.core.windows.net

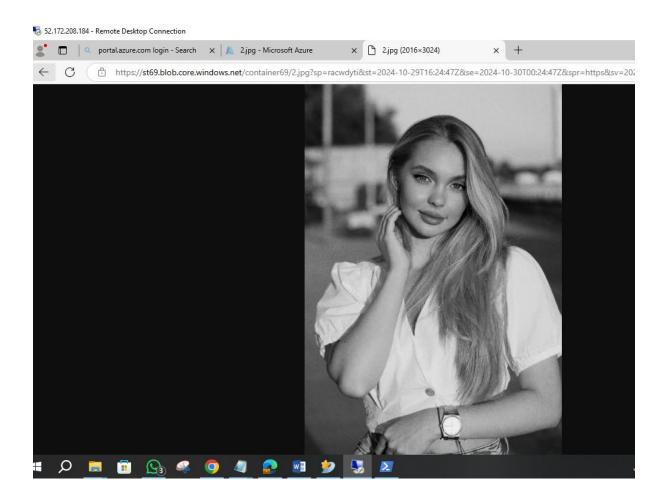
PS C:\Users\HP>
```

12) Checknig private dns zone is linked to vnet



13) Now same blob url again works in vm

 $\frac{https://st69.blob.core.windows.net/container69/2.jpg?sp=racwdyti&st=2024-10-29T16:24:47Z&se=2024-10-30T00:24:47Z&spr=https&sv=2022-11-02&sr=b&sig=J4cP7d7ilhOfY3%2B6ZvMrvkwvwgn1tiB4p7qa%2B82ADp4%3D$



Interview Questions

Private endpoint banate samay kya kya banta hai?

Service Endpoint banate samay kya kya banta hai?

Private endpoint vs service endpoint ke beech difference?

Question of the Weeek

Highly Available, Highly Secure, Highly Scalable...Sab kuch highly wala environment