

Azure Private Endpoints with PowerShell



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Overview



Understand the use case

Plan and implement private access to Azure data services

Private endpoint

Service endpoint

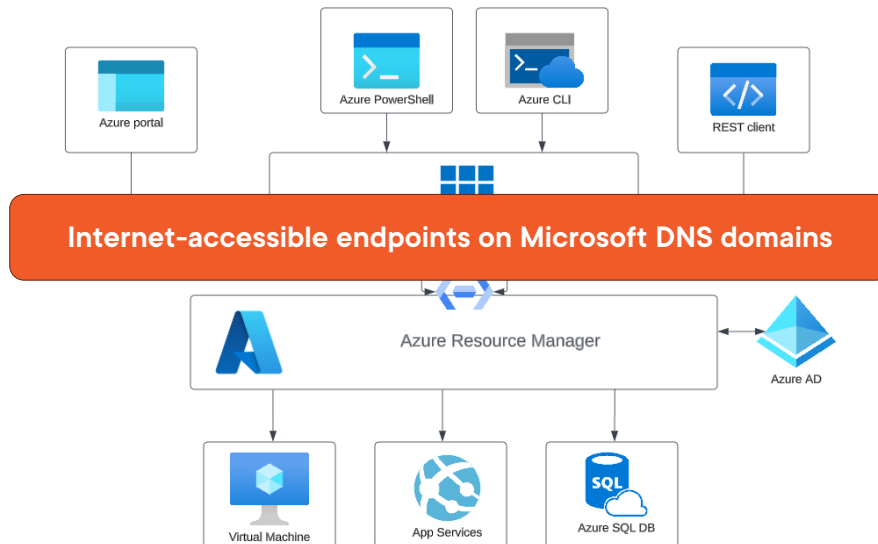
Session Materials

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The Use Case

Microsoft Azure is a Public Cloud




Azure Private Endpoint

Three Options for Inbound Access

Create Azure OpenAI ...

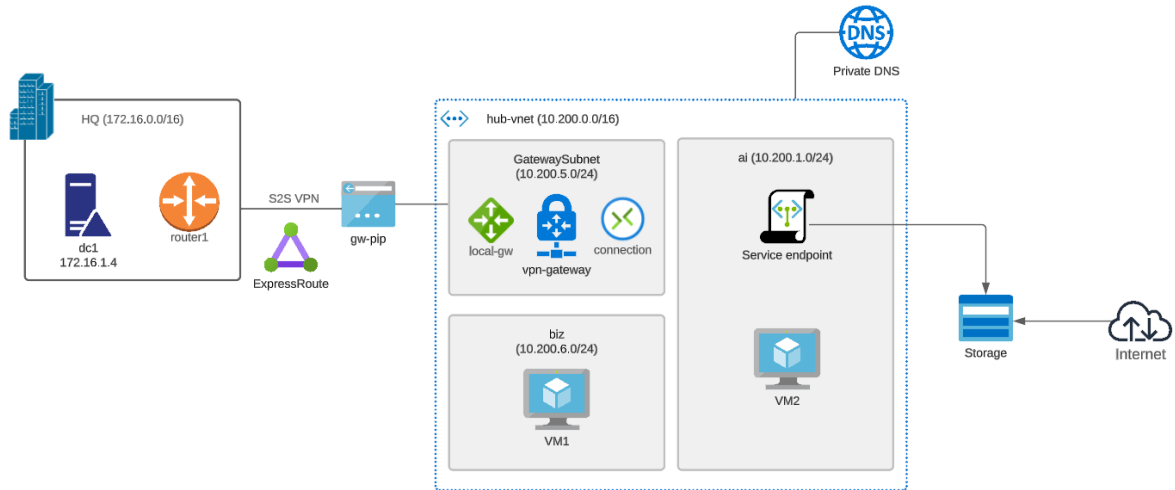
✓ Basics **2 Network** ③ Tags ④ Review + submit

i Configure network security for your Azure AI services resource. 

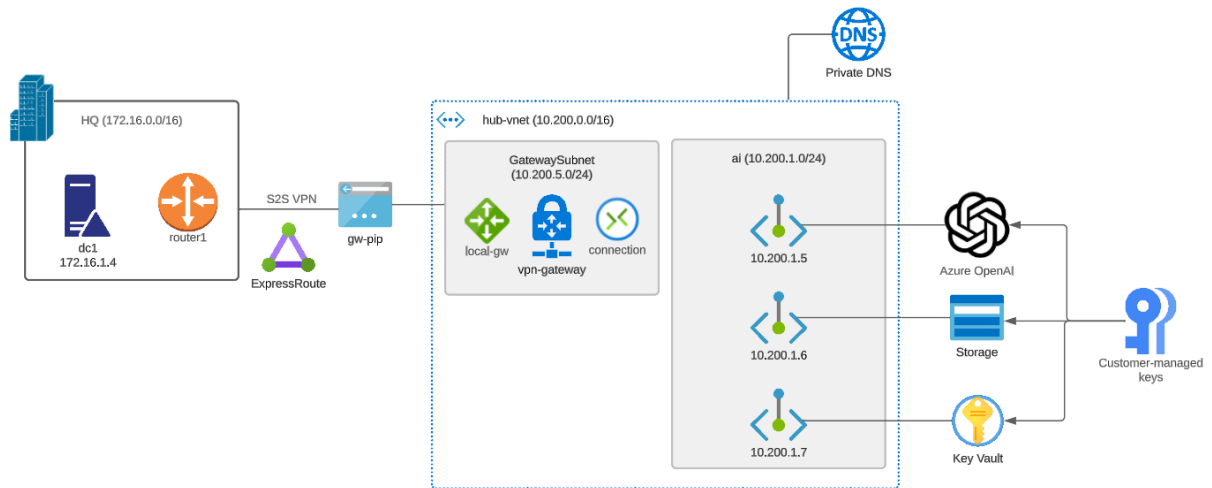
Type *

- ☒ All networks, including the internet, can access this resource.
- ☐ Selected networks, configure network security for your Azure AI services resource.
- ☐ Disabled, no networks can access this resource. You could configure private endpoint connections that will be the exclusive way to access this resource.

Service Endpoints



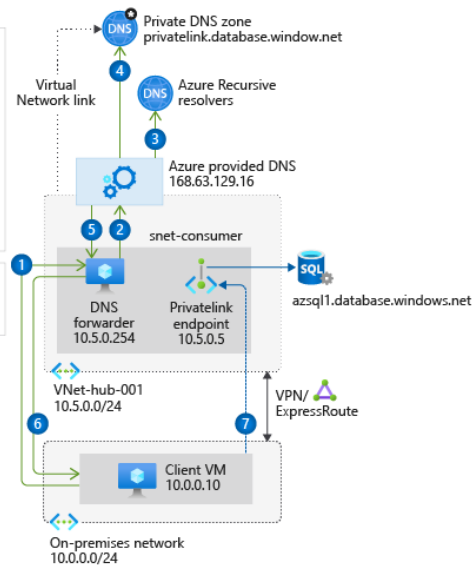
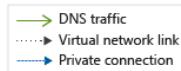
Private Endpoints



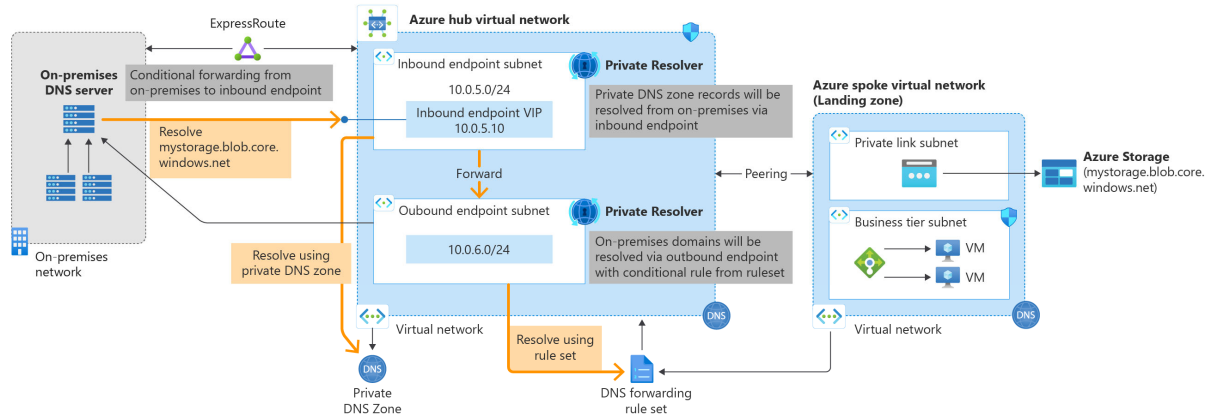
Name Resolution - Azure DNS Private Zone

DNS Resolution Flow

- 1 DNS query for azsql1.database.windows.net
- 2 Server level forwarder to 168.63.129.16
- 3 Authoritative DNS query for azsql1.database.windows.net
Response: CNAME azsql1.privatelink.database.windows.net
- 4 DNS query for azsql1.privatelink.database.windows.net
Response: private ip address 10.5.0.5
- 5 6 Response: CNAME azsql1.privatelink.database.windows.net
A azsql1.privatelink.database.windows.net 10.5.0.5
- 7 Private connection to 10.5.0.5



Name Resolution - Azure DNS Private Resolver



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Demo



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Service endpoint

Private endpoint

DNS configuration

Azure DNS private resolver

Questions? Comments? Curiosities?



Summary



Private endpoints are one of the most important Azure trends

Others:

- Azure OpenAI Service
- Azure Policy
- Bicep

Thanks!

Session materials: timw.info/river23

LinkedIn: timw.info/li

Blog: azureopenai.blog