



Deploy Azure VMware Solution (AVS) + Network Connectivity (@askaresh)

1 Pre-requisites

- Existing Azure subscription with Microsoft enterprise agreement
- Active credit card that can pay the bills
- Request AVS Host quota for subscription
 - Azure Portal - Help & Support
 - Create a support request
 - Azure VMware Solution - Capacity
 - Customer request for Additional Host Quota/Capacity
 - 3 Host - Region Selection - Email contact method - Create

2 Confirm the Microsoft AVS resource provider in your subscription

- Active Subscription - Settings - Resource Providers
- Search Microsoft.AVS - Register

3 New or Existing Resource Group (RG)

- Create a New RG - Name - Region - Create
- You can use the existing RG

4 Deploy the AVS Private Cloud

- Go to your newly created or existing RG
- +Create - Market Place - Search - Azure VMware Solution
- Select AVS - Create
- Private Cloud - Name
- Select Region
- No of Host (Physical Servers)
- AV36 Node - The host SKU
- Subnet Block for the Azure Private Cloud been deployed. This is essentially the block given out to SSDC management components. (Note no overlaps between existing Azure vnet or On-premise network is allowed. It has to be unique)
- Click Create and in about 2 hour(approx.) your 3 node cluster should be ready.

5 Connect AVS Private Cloud with Azure Virtual Network (vNet)

- This will allow the communication between the newly deployed AVS and existing Azure virtual network (Allowing it to access from Jumpbox or talk to existing Azure Virtual Machines)
- Select the newly deployed AVS - Connectivity
- Azure vNet connect - Gateway Subnet - x.x.x.x/27 - The network used by Virtual Network Gateway that will be deployed to connect the new vNet to ExpressRoute circuit
- Note - This can be pre-populated within the Azure Virtual Network already.
- AzureBastionSubnet - x.x.x.x/27 - The AVS private connectivity to the Jumpbox
- ManagementSubnet - x.x.x.x/27 - The subnet to give out IP address to the Windows Server jumpbox
- Note - You might already have some Azure Virtual Network established. In such a scenario you can use the existing networks subnets for Mgmt, Bastion etc.

6 Access the AVS Private Cloud from the Azure Bastion/Jumpbox

- We shall use the Azure Bastion Service this way we dont have to expose the AVS on the public IP and we can access it via a Windows Server deployed jumpbox VM
- Go to your newly created or existing RG
- +Create - Market Place - Search - Azure Bastion - Name - Region - Azure Virtual Network - AzureBastionSubnet - x.x.x.x/27 - Create
- + Create - Market Place - Virtual Machine - Windows Server - Basics - ManagementSubnet - x.x.x.x/27 - Give it a Username/Password - Create - Connect - Bastion
- AVS Name - Manage - Identity - Has the URL and password key for vCenter/NSX
- Copy n Paste the information within the Windows Server Jumpbox to access the vCenter/NSX URL's

7 Connect On-premise DC to AVS Private Cloud

- Configure the ExpressRoute Global Reach to connect from on-premise datacenter into AVS
- Select the newly deployed AVS - Connectivity
- ExpressRoute Global Reach - Enter the ExpressRoute Circuit ID and Authorization Key (copy/paste the ids/keys)
- You will have to pre-create this in advance by selecting the billing and type of connectivity between Azure and On-premise
- Click on Create - Launch the browser within your on-premise network
- AVS Name - Manage - Identity - Has the URL and password key for vCenter/NSX
- Copy n Paste the information within the on-premise network to access the vCenter/NSX URL's