

Azure Virtual Desktop (Twitter - @Askaresh)

1 Getting Started

- 1** Create you account and increase the quotas for deployments
- 2** Create a Resource Group
 - Mgmt. Netw
 - DMZ Netw
 - Desktop Netw
- 3** Create Virtual Networks and Subnets
 - Exchange IP routes between the networks
 - Route Network Traffic (Btw Azure/On-premise Subnets)
- 4** Create Virtual Network Gateway or Express Route
 - How to connect back with on-premise
 - Used together along with virtual network gateway
 - Public IP of the on-premise is used
 - Address space is the local on-premise subnets
- 5** Create Local Network Gateway
 - Under virtual network gateway - Connections
 - Site to Site (IPSEC) + shared key
 - Production environment should have a ExpressRoute. Make sure you select the rightsized for the network throughput
- 6** Create a Connection
 - Connect to VPN or/else ExpressRoute
 - Depends on router/network config
- On-premise
 - You have Active Directory and File Shares already deployed

2 Deployment

- Create the backend servers
 - Domain Controllers
 - File Servers
 - Add additional Data Disk
- Virtual Network
 - Point to on-premise DNS for name resolution or/else the default will point to Azure
- Join the DC/FS to the domain
- Synchronize AD with AAD
 - Add custom domain names (E.g. askaresh.com)
 - Password Hash Synchronization
 - New service account within AAD
 - Permission for Service account - Global Administrator
 - Azure AD Connect Software on AZ-DC
 - Login to AZ Portal with the Service account to validate the password or set the password
 - Check - continue without matching all UPN suffixes
 - Users are represented only once across all directories

3 Master Images

- Windows 10 Multi Session
 - Create the VM in Azure Portal - D2sm instance
 - No Data Disk + Select Proper Network + Tags
 - Install Windows Updates
 - Install FSLogix on the master image
 - Install Edge, Chrome, NP++, Putty and OneDrive Per machine install
 - Generalize the image OOB + Generalize + Shutdown
 - Template is ready
- Windows 10 1909 Enterprise
 - Create the VM in Azure Portal - D2sm instance
 - No Data Disk + Select Proper Network + Tags
 - Install Windows Updates
 - Install FSLogix on the master image
 - Install Edge, Chrome, NP++, Putty and OneDrive Per machine install
 - Generalize the image OOB + Generalize + Shutdown
 - Template is ready
- Windows Server 2019 Datacenter
 - Create the VM in Azure Portal - D2sm instance
 - No Data Disk + Select Proper Network + Tags
 - Install Windows Updates
 - Install FSLogix on the master image
 - Install Edge, Chrome, NP++, Putty and OneDrive Per machine install
 - Generalize the image OOB + Generalize + Shutdown
 - Template is ready

4 Capturing Image and publishing in Azure + Shared Image Gallery (SIG) + Register AVD Provider

- Under Virtual Machines Select the Image and click on Capture
 - Automatically delete after creating
 - Repeat these steps on all master Image
- Capture Image
- SIG
 - Create the SIG - put it under the Resource Group
 - Add new image definitions
 - Provide a Version + Select the Image + Expiry Date + Multi-regions
- Register AVD Provider
 - Subscription - Providers - Microsoft.DesktopVirtualization

5 Host Pools

- Go to Azure Virtual Desktop
- Select the subscription and Resource Pool - Provide a HP Name
- Metadata Location - Unfortunately there is no Australia or Asia (while drafting this mind map)
- HP Type - Pooled + LB Alog - Breadth First + Max Sessions Limit - 50 (Size out these numbers properly in adv.)
- Name Prefix - The name that VM will get under HP
- Select the Availability Options - Dev purpose select no availability
- Image Type - Gallery - Select the Image we created earlier + select the size of the VM that will be deployed
- Virtual Machine
 - Number of VM's - XX + OS Disk - SSD
 - Select the dedicated Desktop Network - Virtual Network
 - Domain Join - Active Directory or now AAD
 - Virtual Machine Local account details - Username/Password
- Click on Create a host pool
- Create a New Workspace + Review and Create the HP

6 Application Groups

- These are the application pools of Horizon for Published Applications
- Optional - Delete the AG created by the HP Wizard
- Select the subscription and Resource Pool - Provide a HP Name
- New AG
 - Application Group Type - Remote App (Published Application) and Desktop
 - Give is a proper Name to identify the AG type
 - This is Desktop no App Assignment is required
 - Select the AAD or AD - User or Group that needs entitlements
- Review and Create

7 Workspaces

- Select the subscription and Resource Pool - Provide a Workspace Name - All the App Groups we tried here.
- Select the Application Group to be associated for this Workspace - We can select the one we created in the previous step
- Review and Create

Windows Desktop Client

- Download the Windows Desktop Client of your choice - Depending upon your device
- Click Sign-in and enter your AAD/AD credentials
- All you Entitlements and Icons will be displayed
- Click on the desktop and you will be prompted for credentials enter them and you will have your virtual desktop or applications