**How to Create a VM from Image in Shared Gallery (Server 2019)**

1. **Locate the image in portal by looking for the Managed Image Store.**
2. Go to the top search bar and enter “Shared Image Gallery” and select the one where you stored the image previously
3. **Select image**
4. Select the image you want. Click on “Create VM”
5. Fill out the rest of the information accordingly
6. **Log on to the VM**
7. Logon as local admin
8. Run windows update and reboot
9. Add computer to domain
10. Move server to proper OU
11. Add proper local group members

**Next are steps that need to be taken for WVD Hosts after you have done the above  
D. Download Agents and configuration**

1. Download the WVD Agent, Bootloader, Side by side stack, and the activation script
2. Agent download

https://query.prod.cms.rt.microsoft.com/cms/api/am/binary/RWrmXv

1. Boot Loader download

https://query.prod.cms.rt.microsoft.com/cms/api/am/binary/RWrxrH

1. Side By Side Stack

<https://go.microsoft.com/fwlink/?linkid=2084270>

1. Activation Script

https://go.microsoft.com/fwlink/?linkid=2084268

1. Fslogix -

https://aka.ms/fslogix\_download

1. Install ONLY the WVD Agent and Bootloader at this time
2. Configure WVD Short path with the following

$WinstationsKey = 'HKLM:\SYSTEM\CurrentControlSet\Control\Terminal Server\WinStations'

New-ItemProperty -Path $WinstationsKey -Name 'fUseUdpPortRedirector' -ErrorAction:SilentlyContinue -PropertyType:dword -Value 1 -Force

New-ItemProperty -Path $WinstationsKey -Name 'UdpPortNumber' -ErrorAction:SilentlyContinue -PropertyType:dword -Value 3390 -Force

netsh advfirewall firewall add rule name="Shortpath In.v1" dir=IN action=allow protocol=UDP localport= 3390 remoteip=10.0.0.0/8

netsh advfirewall firewall add rule name="Shortpath In.v2" dir=IN action=allow protocol=UDP localport= 3390 remoteip=172.16.0.0/12

1. FSLogix - install to default locations. No configuration is needed, the GPO will take care of it all

**E. Configure Remote Desktop Services**

1. In server manager open, Add role, Role-based Installation, Remote Desktop, select the licensing and Session host.
2. If prompted point the license server to itself and activate it at a later time
3. Reboot
4. Install the side by side stack
5. Run the Side by Side Stack powershell script

**F. Add the machine to the host pool**

1. In the portal, type in Windows Virtual Desktops in the search, select your host pool, click registration key. If it’s expired, create a new one and copy the key to clipboard.
2. ADD 2 registry keys with the following commands

$token="%registration key you copied%"

$path="hklm:\software\microsoft\rdinfraagent"

Remove-ItemProperty -Path $path -Name "isregistered" -Force

Remove-ItemProperty -Path $path -Name "RegistrationToken" -Force

new-itemproperty -path $path -name IsRegistered -value 0 -propertytype dword

new-itemproperty -path $path -name RegistrationToken -value $token -propertytype string

1. Double Check and make sure the Side by Side stack is configured correctly. This has to be done manually in the registry

G. Permissions and management of WVD Hosts.

1. Adding a user group or change in RDP settings is done with WMI. Below is an example of adding a group to 1 session host.

$xyz=get-wmiobject -class "Win32\_TSPermissionsSetting" -namespace "root\cimv2\terminalservices" -computername %servername%

$xyz.addaccount("%domain%\%group%",%integer%) 0=guest access, 1=user access, 2=all access

1. Use Script wmiexplorer.ps1 to hello with WMI Class, Namespace, and method lookups.