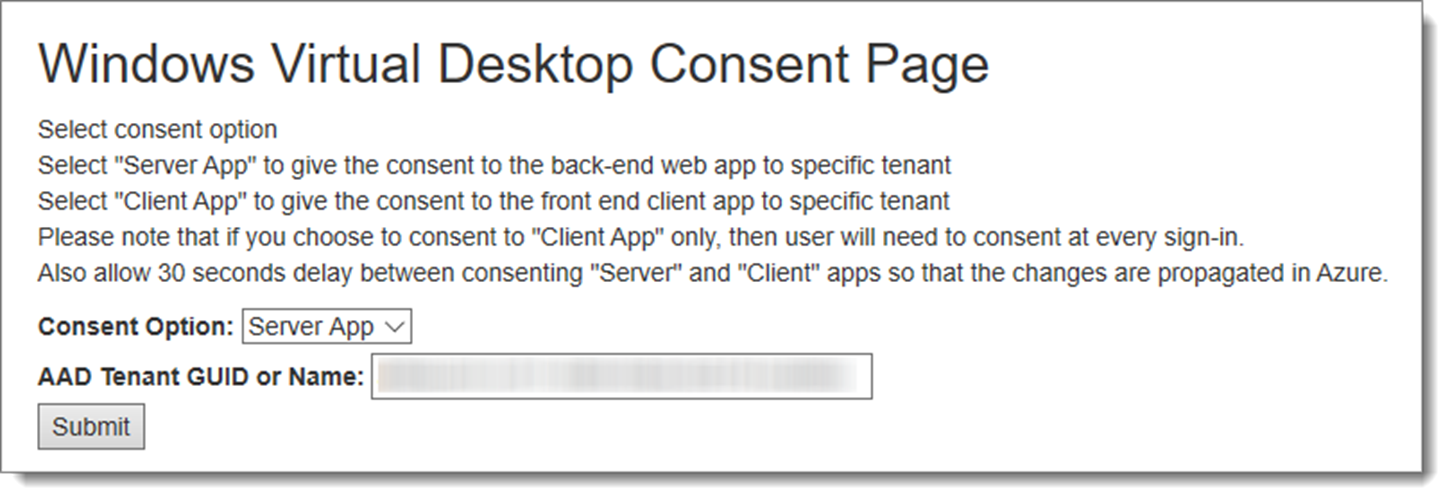
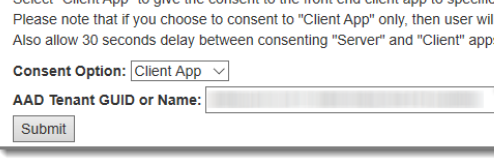
**Step by Step configuring Windows Virtual Desktop (Main Guide)**

1. **Enable the service on the subscription**
2. Login Portal as Global Administrator
3. Start with the “Consent Option” set to “Server App,” then fill in your “AAD Tenant GUID or name” and hit submit. 

The GUID is your Azure domain name. The tenant ID is a long alphanumeric identifier that. You can find the Tenant ID in the overview section when you go into Azure Active Directory Tab.

1. Accept Permissions
2. Provide consent and wait about a minute
3. Repeat steps 1-4 except this time select client app



**B. Assign Enterprise Application Administrators**

1. Open Azure Active directory and go to Enterprise applications
2. Grant permissions to the appropriate admins for Enterprise Applications

.

**C: Gather your WVD Information**

1. Go to Subscriptions and get your subscriptionid
2. Go to azureAD and get your tenantID and name

**D. Powershell - Install WVD Modules**

1. Microsoft.RDInfra.RDPowerShell
2. Az module
3. AzureAD module
4. You can run the script attached to the end of this document to create the host pool, application groups, assign groups, create workspace, and link workspaces with host pool etc.

**E. Configure Active Directory**

1. Please see documentation “[Configure Active Directory for WVD](https://docs.google.com/document/d/1XNX8_NVpF-X78ZFPIgc68_MgxkkUFGUlTJxVw1CC2WM/edit?usp=sharing)”

**F. Configure Azure Files**

1. Please See documentation “[Configure Azure Files on Active Directory Domain Services](https://docs.google.com/document/d/1XNX8_NVpF-X78ZFPIgc68_MgxkkUFGUlTJxVw1CC2WM/edit?usp=sharing)”

**G. Create a base image and store in Shared Image Gallery**

1. Please see documentation “[How To Create a Image and store in Shared Image Gallery (Server 2019)](https://docs.google.com/document/d/1GnkY7Ty3FnzCS-0otT_cKQszYaNfv0uJdyNTJga0vto/edit?usp=sharing)”

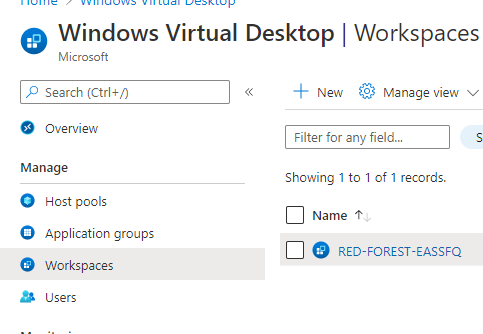
**H. Create Host Pool Through Portal**

1. Log into Azure portal

Search for windows virtual desktop

Select host pool

Create new host pool but do not add session hosts



1. Under the new Host pool Select Access control IAM and add the proper assignments

**I. Create Desktop and Remote Application Groups**

1. Run the following 2 commands to create the Desktop and Remote Application Groups;

New-RdsAppGroup -TenantName $CompanyWVDtenant -HostPoolName %hostpoolname% -AppGroupName “Desktop Application Group”

New-RdsAppGroup -TenantName CompanyWVDtenant -HostPoolName $hostpoolname -AppGroupName “Remote Application Group”

1. Under the new Application group Select Access control IAM and add the proper assignments
2. Under Assignments add the rds users groups

**J. Create Workspace**

1. In portal under Windows Virtual Desktop select workspace
2. Create new workspace and don’t assign anything else
3. When deployment is finished Select Workspace, select Application groups, click ADD and select appropriate groups
4. Under the new Workspace Select Access control IAM and add the proper assignments

**K. Adding, Creating and Configuring Virtual Machines**

1. Please See documentation “[How To Create a Image and store in Shared Image Gallery (Server 2019)”](https://docs.google.com/document/d/1SuAZ7xZkuowES8viaTwGVfifLBEyLofYER4kPLbSo0U/edit?usp=sharing)

**Deployment Script:**

# Import module

import-module Az

import-module AzureAD

# Set Parameters

$RGName = "%resource group name%" # Resouce Group Name

$RGLocation = "%location%" # Resouce Group Location

$HPName = "%hostpool name%" # Host Pool Name

$HPDescription = "%Description of Hostpool%" # Host Pool Description

$HPFriendlyName = "%Hostpool Friendly name%" # Host Pool Friendly Name

$MaxSessionLimit = "%Number of Sessions%" # Max Session Limit

$AGName = "%Application Group Name%" # Application Group Name

$AGDescription = "%Application Group Description%" # Application Group Description

$AGFriendlyName = "%Application Group Friendly Name%" # Application Group Friendly Name

$WSName = "%WorkSpaceName%" # WorkSpace Name

$WSDescription = "Workspace Description" # WorkSpace Description

$WSFriendlyName = "WorkSpaceFriendlyName" # WorkSpace Friendly Name

$WVDLocation = "%WVD Location%" # WVD Location

$ConnectUser = "%account to add computers to domain%" # Azure and AzureAD for resource creation account

$WVDGroupName = "%User group to use WVD%" # WVD usage group

# Create credential

$password = ConvertTo-SecureString -String "%Special Password%" -AsPlainText -Force

$credential = New-Object System.Management.Automation.PsCredential $ConnectUser, $password

$creds=get-credential

# Connect Azure

Connect-azaccount

#or

connect-azaccount -UseDeviceAuthentication

# Connect AzureAD

Connect-AzureAD -Credential $credential

#or

#connect-azuread

# Create ResouceGroup IF New resourcegroup is needed.

New-AzResourceGroup -Name $RGName -Location $RGLocation

# Create WVD HostPool

New-AzWvdHostPool -ResourceGroupName $RGName `

-Name $HPName `

-Location $WVDLocation `

-PreferredAppGroupType 'Desktop' `

-HostPoolType 'Pooled' `

-LoadBalancerType 'BreadthFirst' `

-RegistrationTokenOperation 'Update' `

-ExpirationTime $((get-date).ToUniversalTime().AddDays(1).ToString('yyyy-MM-ddTHH:mm:ss.fffffffZ')) `

-Description $HPDescription `

-FriendlyName $HPFriendlyName `

-MaxSessionLimit $MaxSessionLimit `

-VMTemplate $null `

-CustomRdpProperty $null `

-Ring $null `

-ValidationEnvironment:$false

# Get WVD HostPool ID

$HPPath = Get-AzWvdHostPool -Name $HPName -ResourceGroupName $RGName

# Create WVD Application Group

New-AzWvdApplicationGroup -ResourceGroupName $RGName `

-Name $AGName `

-Location $WVDLocation `

-FriendlyName $AGFriendlyName `

-Description $AGDescription `

-HostPoolArmPath $HPPath.Id `

-ApplicationGroupType 'Desktop'

# Get WVD Application Group ID

$APPath = Get-AzWvdApplicationGroup -Name $AGName -ResourceGroupName $RGName

New-AzWvdWorkspace -ResourceGroupName $RGName `

-Name $WSName `

-Location $WVDLocation `

-FriendlyName $WSFriendlyName `

-ApplicationGroupReference $null `

-Description $WSDescription

# Add WVD Application Group to WorkSpace

Register-AzWvdApplicationGroup -ResourceGroupName $RGName `

-WorkspaceName $WSName `

-ApplicationGroupPath $APPath.Id

# Grant permissions to WVD

$WVDUsersGroup = Get-AzureADGroup -SearchString $WVDGroupName

New-AzRoleAssignment -ObjectId $WVDUsersGroup.ObjectID -RoleDefinitionName "Desktop Virtualization User" -ResourceName $AGName -ResourceGroupName $RGName -ResourceType 'Microsoft.DesktopVirtualization/applicationGroups'

Read-host -prompt "Add host to new host pool"