**RDS Configuration using DSC**

**User Guide**

The following are the steps that need to be followed for the configuration of RDS setup in Azure Virtual Machines. This process makes use of PowerShell DSC and Azure VM DscExtension for the configuration.

The engineer first need to upload the DSC files to the storage account for the region in which the RDS Virtual Machines will be deployed. Then use the Azure PowerShell commands to apply the Dsc configuration on Azure VM.

Pre-req:

1. AD DS Server must have already been deployed with static IP
2. Three Virtual Machines must have already created for RD Gateway (Includes RD Web), RD Session Host
3. Here the assumption is that connection broker and licensing server configured on AD Server.
4. The RD Gateway (RD Web), RD Session should not be part of AD, since the DSC joins the Virtual Machines to AD.

Steps:

1. Upload the DSC Zip files to the storage account for the region in which the Virtual Machines will be created. The Zip files are available in the folder of this document. Note down the Blob name, container name and storage account name.
2. Once the Virtual Machines are created, make ensure they are in the running state
3. Open PowerShell ISE on your laptop and connect to Azure using

Login-AzureRMAccount

Provide the required credentials once the popup has come up.

1. On PowerShell ISE editor, copy the following code to create a PS credential object. Replace the values with yours.

$SecurePassword = ConvertTo-SecureString -String "Password" -AsPlainText -Force

$Creds = New-Object System.Management.Automation.PSCredential ("UserName",$SecurePassword)

RD Gateway and Web:

1. Apply the following configuration script to the RD Gateway (RD Web).
2. Use the same PS Credential Object created earlier.

Set-AzureRmVMDscExtension -ResourceGroupName "VMResourceGrp" -VMName "VMName" `

-Name "RDDsc" -ArchiveBlobName Configuration.ps1.zip -ArchiveStorageAccountName storagename `

-ArchiveContainerName containername -ConfigurationName Gateway `

-ConfigurationArgument @{domainName="DomainName";$adminCreds=$Creds} `

-Version 2.20 -Location "VM Location" -AutoUpdate -Force `

1. Wait for the command to be executed successfully. If it returns errors do not proceed further.

RD Session Host:

1. Apply the following configuration to the RD Session Host VM.
2. Use the same PS Credential Object created earlier.

Set-AzureRmVMDscExtension -ResourceGroupName "VMResourceGrp" -VMName "VMName" `

-Name "RDSH" -ArchiveBlobName SessionHost.ps1.zip -ArchiveStorageAccountName storagename `

-ArchiveContainerName containername -ConfigurationName SessionHost `

-ConfigurationArgument @{domainName="DomainName";$adminCreds=$Creds} `

-Version 2.20 -Location "VM Location" -AutoUpdate -Force `

1. Wait for the command to be executed successfully. If it returns errors do not proceed further.

RD Connection Broker:

Before running the command for Connection broker, note down the following details:

1. FQDN for RD Gateway (RDWeb), RDSH, Connection Broker
2. External DNS name for RD Gateway server. If it is not created, create a one at Azure Portal for Public IP
3. Use the same credential Object created earlier

Set-AzureRmVMDscExtension -ResourceGroupName "VMResourceGrp" -VMName "VMName" `

-Name "RDcb" -ArchiveBlobName RDSDeploy\_OnAD.ps1.zip -ArchiveStorageAccountName storagename `

-ArchiveContainerName containername -ConfigurationName RDSDeployment `

-ConfigurationArgument @{domainName="DomainName";$adminCreds=$Creds;connectionBroker="ADServerFQDN"; `

webAccessServer="RDGatewayFQDN";externalFqdn="ExternalUrlOfRDgateway";sessionHost="SessionHostFQDN"; `

collectionName="CollectionName"} -Version 2.20 -Location "VM Location" -AutoUpdate -Force `

1. Wait for the command to be executed successfully and if it returns errors, do not proceed further.

Testing:

1. Get the external dns name of the RD Gateway server and enter in any browser. Ignore the certificate errors at this time.

Ex: <http://rdgatewayserver.westeurope.cloudapp.azure.com/RDWeb>

1. Login with AD Credentials and get the RDP client.
2. You will get certificate error while taking the RDP, so install the default certificate which will be shown as “View Certificate” on error box.
3. Once the certificate is installed, try to retake the RDP. This time it works.