# Red Forest RDS Build Guide (Please read thoroughly and follow every step) RDS Prerequisites:

- 1. 8 VMs
- 2. All machines will require WinRM configured (Check the technical section in a later section of this document)
- Microsoft NPS Extension for MFA already installed and configured with Azure (link provided at the end of this document). See Document NPSExtensionDeploy for instructions
- 4. File share for mounting profile disks. To calculate for maximum needed is size of profile disk (default is 20gb) x number of users
- 5. Certificate. RDS requires 2 certificates 1 Web/Gateway and 1 Broker. It's easier to use 1 certificate instead of having to create and manage 2. See Document Guide to creating certificate for RDS
- 6. Msonline module on the NPS Server
- 7. All VMs should be fully patched. Due to some security exploits some domain security policies may block rdp from working.
- 8. In server manager for All RDS Servers add all rds machines into under the systems management. (This is mandatory or rds deployment will fail)
- 9. Both broker servers should have Microsoft ODBC DRIVER 17 for sql server. Download the bigger of the 2 files which is the 64bit version. Link here: https://www.microsoft.com/en-us/download/details.aspx?id=56567
- 10. Follow SQL Server build guide for SQL Configuration

### **Technical Prerequisites:**

# The powershell script will build the following farm

2x Web/Gateways

2x brokers

2x session host

1x sql server

1x nps mfa server

#### WinRM:

Run the following command on all machines:

Enable-psremoting -force -skipnetworkprofilecheck

To view WinRM configs you can run:

WinRM Enumerate Winrm/Config/Listener

or

WinRm Get WinRM/Config

To Test and Verify Functionality:

Test-Wsman -computername (remote computer)

Add if needed: -authentication Basic/Default/Negotiate/Kerberos/Digest/Credssp

And/Or: -credential (get-credential)

## **RDS Autobuild script**

The rdsdeploywithha.ps1 will build you our default build of

2x web/gateway servers

2x session hosts

2x broker

1x nps

1x sql server

Set your license server to per user

Open an administrative powershell

&"path to script\RDSDeploy.ps1"

### **User Input:**

- 1. Fill out all the information under "variables"
- 2. You will be prompted to enter the rds the Secret Key.
- 3. You must do search and replace on for the following items

#search and replace "\$Domain\\$group" with actual domain\group no quotes

#RDS Build Orchestrator for High Availability Build

#install rsat tools if it's not aleady installed

#search and replace "\$Domain\\$group" with actual domain\group no quotes

#### 

#search and replace "\$groupsid1" with actual groupsid\_output from below for group sid command no quotes

###Get RDS GroupNameSID copy output SID and paste this below

#\$rdsgroupname="RDS group name only NO domain"

#\$sid=(get-adgroup -identity \$rdsgroupname).sid

#\$groupsid=\$sid|select-object value

#\$groupsid #<----Grab this output for \$groupsid1

#### 

#search and replace "\$nps1" with nps\_fqdn no quotes

#search and replace "\$sharedsecret1" with sharedsecret no quotes

#search and replace "\$Web1a" with fqdn of web1 no quotes

#search and replace "\$Web2a" with fqdn of web2 no quotes

#search and replace "\$gate1" with fgdn of web1 no quotes

#search and replace "\$gate2" with fgdn of web2 no quotes

#search and replace "\$rdsusergroup1" with rds user group in domain\usergroup format no quotes

#search and replace "\$gatewayfqdn1" with fqdn of front end of rds gateway like "rd.domain.com" no quotes

#search and replace "\$clientaccessname1" with fqdn of rds broker client accessname like "rds.domain.com" no quotes

#search and replace "\$web1ip", \$web2ip, \$brkr1ip, \$brkr2ip and fill in the respective IPs

#### Instructions:

- 1. Follow document "Guide for Creating Certificate for RDS"
- 2. Follow document "Guide to Setting Up Azure MFA Extension for NPS"
- 3. Follow document "Guide to SQL Server Build for RDS"
- 4. RDS is deployed on/from a remote host (because of reboots). Best done from a management host. Copy the script rdsdeploywithha.ps1 here.
- 5. Makes sure you fill out all the variables and finish the search and replace items.
- 6. This build script is fully automated if all instructions are followed and the servernames are set correctly.

#### Resources:

Azure NPS Extension for MFA https://www.microsoft.com/en-us/download/details.aspx?id=54688