Red Forest RDS Build Guide (Please read thoroughly and follow every step)
RDS Prerequisites:
1. 6 VMs
2. All machines will require WinRM configured (Check the technical section in a later section of this document)
3. 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)

Technical Prerequisites:
The powershell script will build the following farm
2x Web/Gateways
1x broker
2x session host

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 rdsdeploy.ps1 will build you our default build of
2 web/gateway servers
2 session hosts
1 broker

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 "$Domain\$group" with actual domain\group no quotes
   ###
   ############################
   #search and replace "$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 fqdn of web1 no quotes
   #search and replace "$gate2" with fqdn of web2 no quotes
   #search and replace "$rdsusergroup1" with rds user group in domain\usergroup format
   no quotes

Instructions:
1. Follow document "Guide for Creating Certificate for RDS"
2. Follow document "Guide to Setting Up Azure MFA Extension for NPS"
3. Copy rdsdeploynoha.ps1
4. RDS is deployed on a remote host (because of reboots). Best done from a management
   host.
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