Download VMWare

https://www.vmware.com/asean/products/workstation-player/workstation-player-evaluation.html

Download Windows Server 2012 .iso

https://www.microsoft.com/en-us/evalcenter/evaluate-windows-server-2012-r2

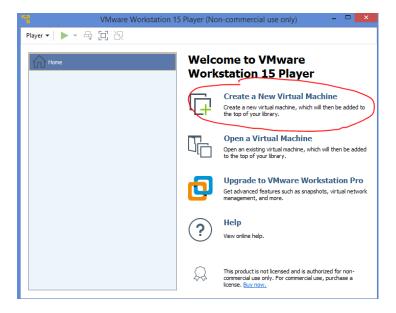
Install VMWare

Install Windows Server 2012 in VMWare

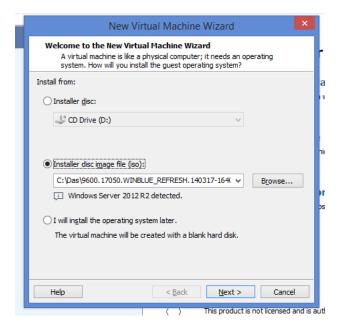
- A. Run VMWare Workstation 15
- B. Select use VMWare Workstation 15 player for free for noncommercial use and click continue



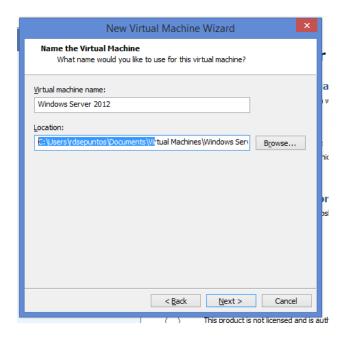
C. In virtual Machine menu click on create a new virtual machine



D. Installation form will be shown click on Installer disc image file (iso) and locate the downloaded Windows server 2012 and click on next



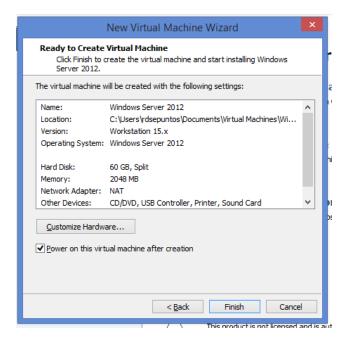
E. Set the name of the virtual machine and the location where it will be created.



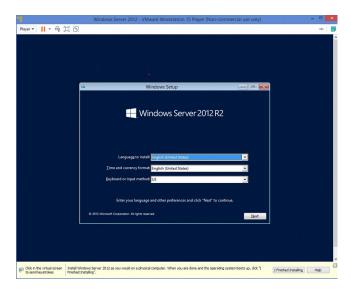
F. Set the allocated size of the virtual machine then click next



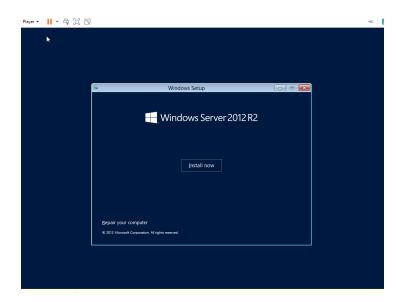
G. Click on finish



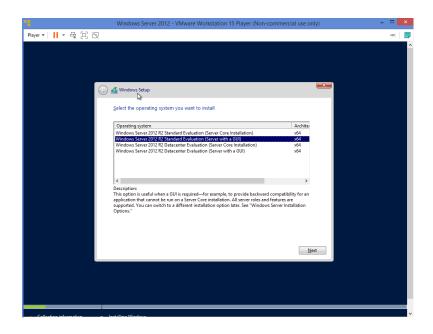
H. Virtual Machine should now run and will display installation of windows. Click Next



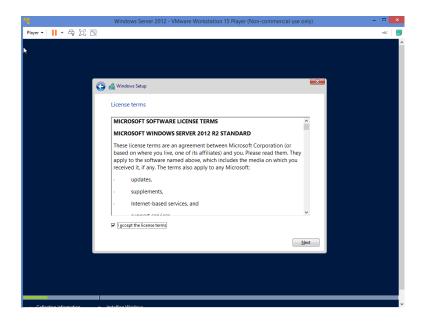
I. then click on install



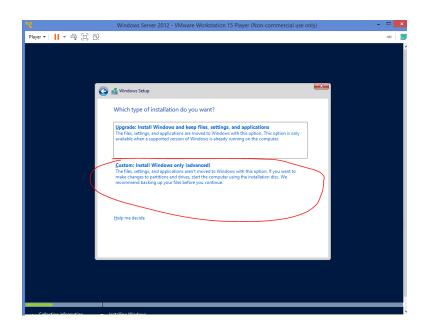
J. Select Windows Server 2012 Standard Evaluation (Server GUI) then click next



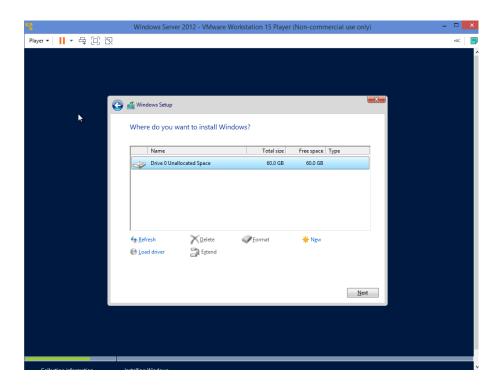
K. Accept the license Term agreement then click next



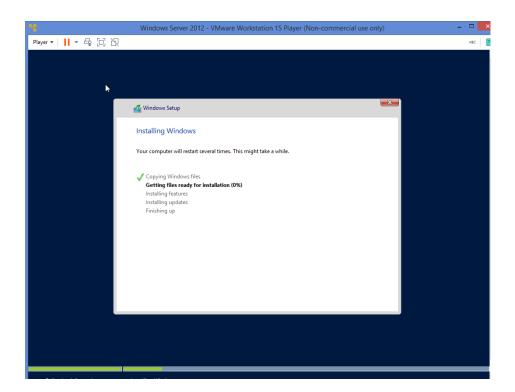
L. Select Custom: Install Windows Only (advanced)



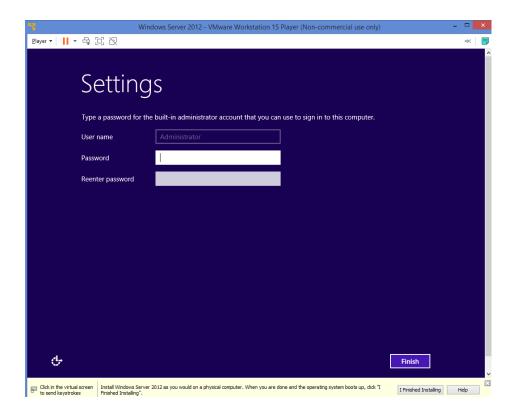
M. Select partition and click next



N. Wait for the installation to be finish

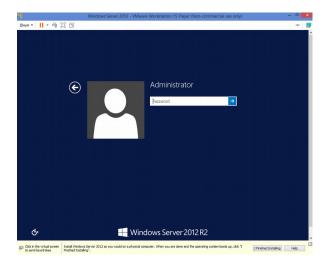


O. Set the password of the server

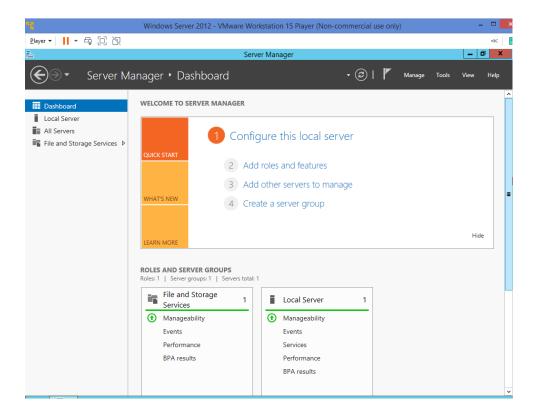


Install AD FS, AD and IIS

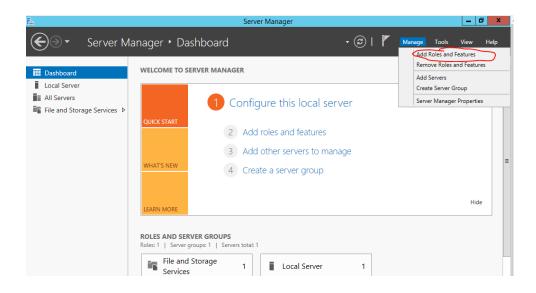
- A. Login to virtual machine windows server using ctrl + alt + insert
- B. Enter the password set earlier.



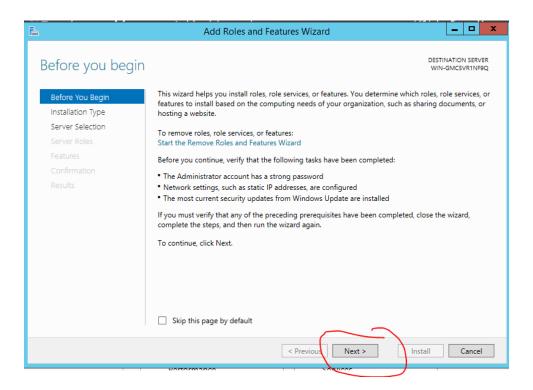
C. wait for the server manager to be loaded



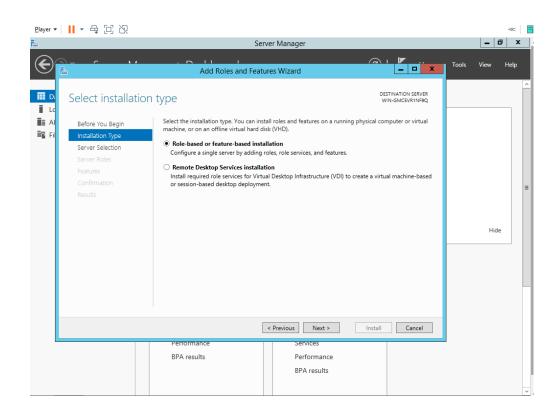
D. Click on add roles and features



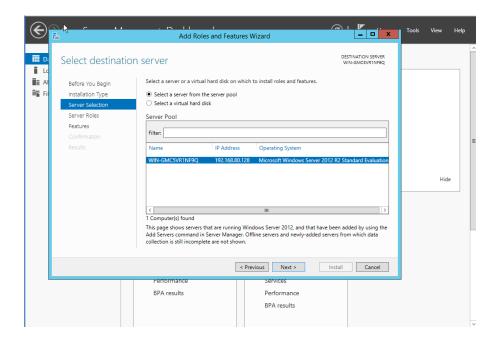
E. In add roles and features wizard click on next



F. Select Role based or feature-based installation

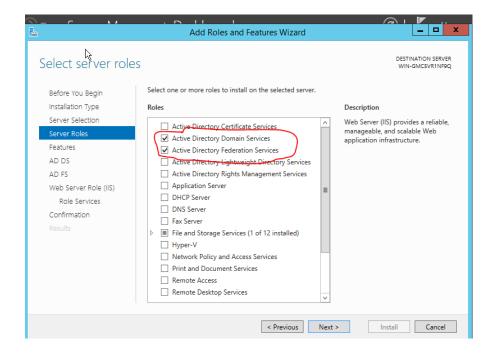


G. select "Select a server from the server pool" then click next



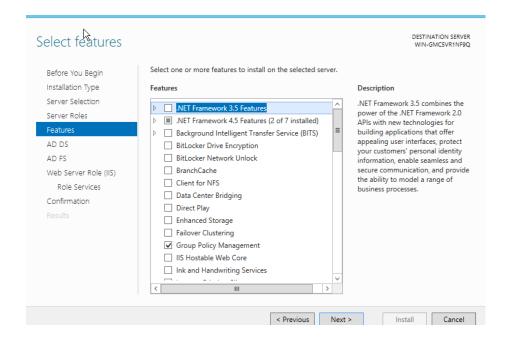
H.Select Active Directory Domain Services, Active Directory Federation Services

and Web IIS then click next

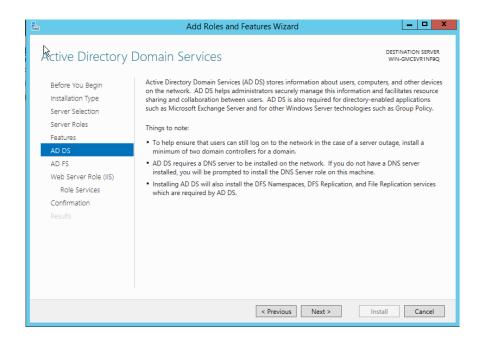


	_
☐ Application Server	^
☐ DHCP Server	
☐ DNS Server	
☐ Fax Server	L
File and Storage Services (1 of 12 installed)	
☐ Hyper-V	
☐ Network Policy and Access Services	
Print and Document Services	
☐ Remote Access	
Remote Desktop Services	≡
☐ Volume Activation Services	
Web Server (IIS)	
☐ Windows Deployment Services	
☐ Windows Server Essentials Experience	
☐ Windows Server Update Services	-

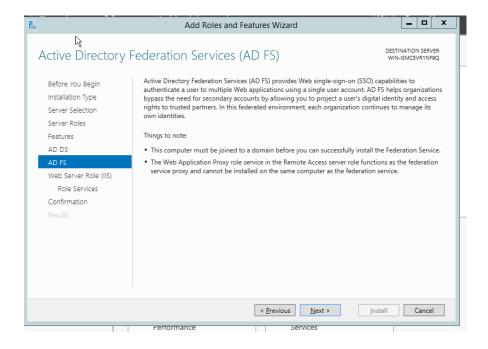
I. then in features click next



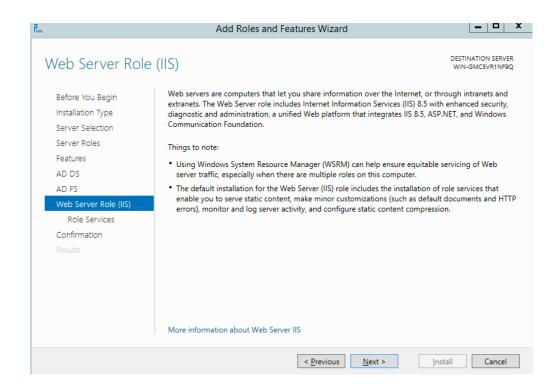
J. In AD DS click next



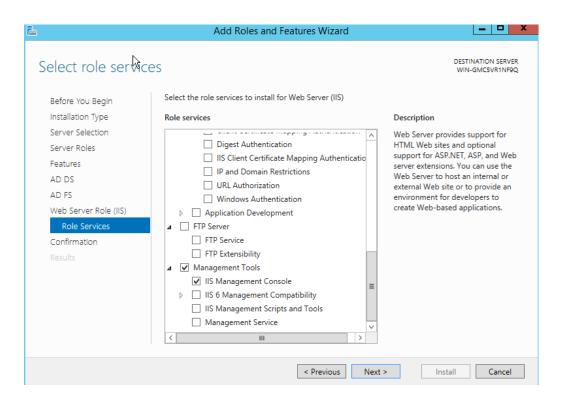
K. In AD FS click next



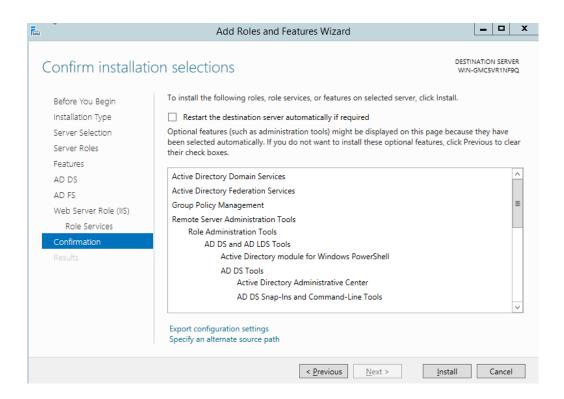
L. in Web Server Role (IIS) click next



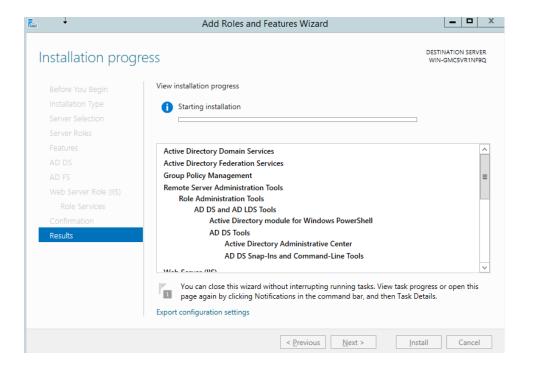
M. In role services click next



N. In confirmation click install

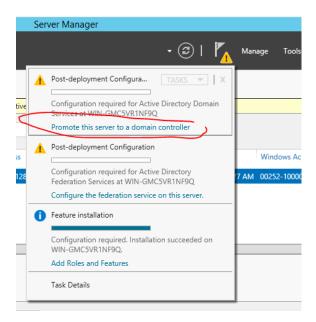


O. Wait for the installation to be finish then click close

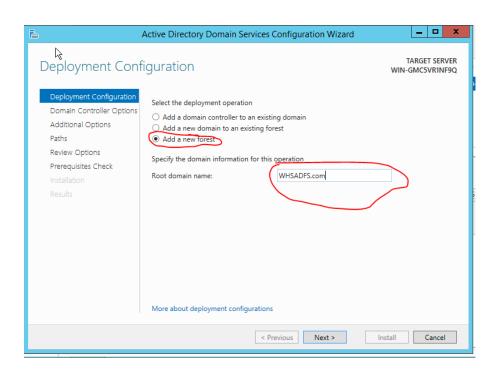


Configuring Active Directory

A. On the server management tool click on the flag and click on promote this server to domain controller



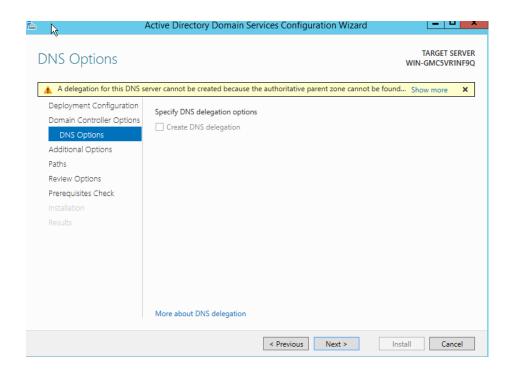
B. On the deployment configuration select add a new forest and set Domain name "." is required in specifying a domain name then click next



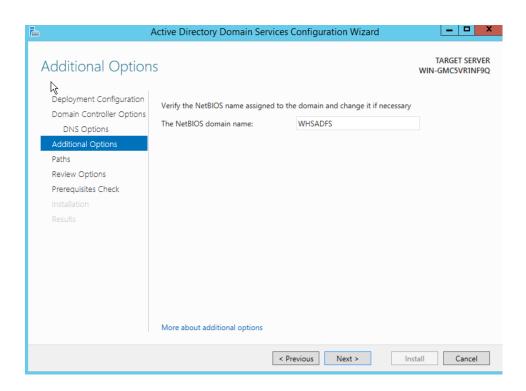
E. Specify a password for restore mode then click next

Active Directory Domain Services Configuration Wizard				
Domain Controlle	r Options		TARGET SERVER WIN-GMC5VR1NF9Q	
Deployment Configuration Domain Controller Options DNS Options Additional Options Paths Review Options Prerequisites Check Installation Results	Select functional level of the new forest Forest functional level: Domain functional level: Specify domain controller capabilities Domain Name System (DNS) server Global Catalog (GC) Read only domain controller (RODC Type the Directory Services Restore Mo Password: Confirm password:	Windows Server 2012 R2 Windows Server 2012 R2	v	
	More about domain controller options	revious Next >	Install Cancel	

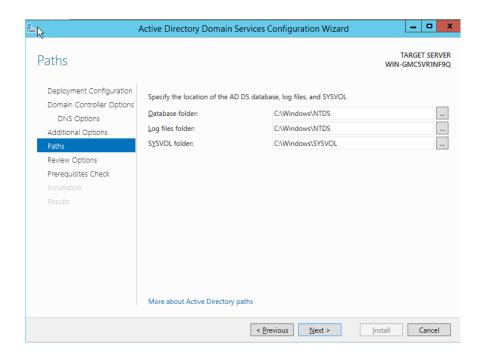
F. Click next on DNS options



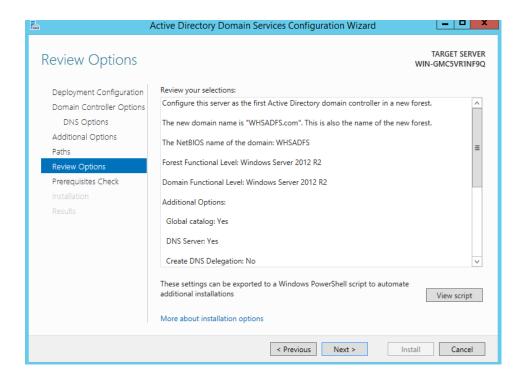
G. In Additional options click on Next



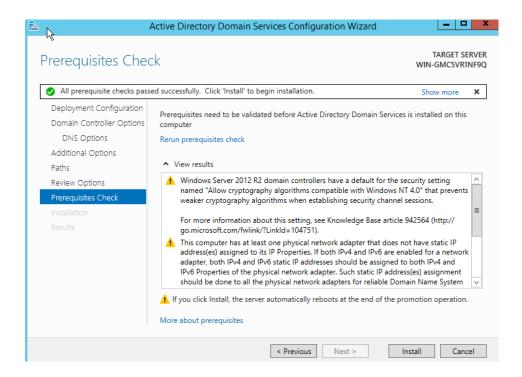
H. In specifying Paths click Next



I. In review options click Next



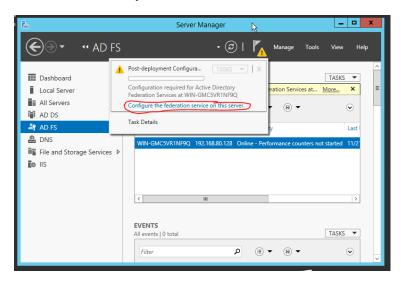
J. In prerequisites click on install



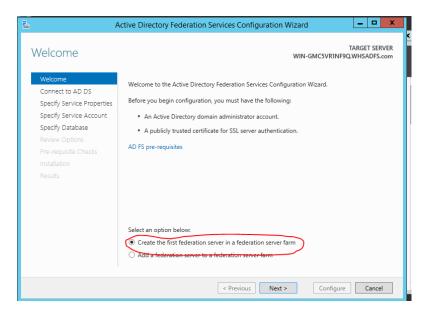
K. Wait for the installation to be completed and the server will restart automatically.

Configuring AD FS

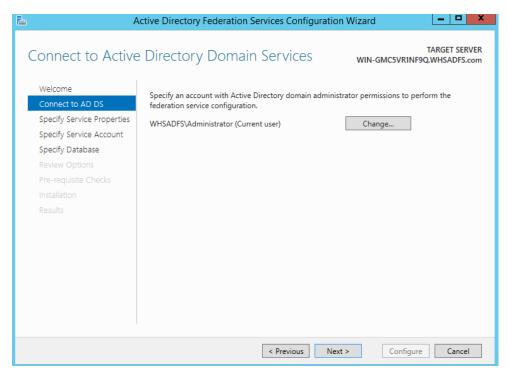
A. In server Manager click on the flag and you will see an post- deployment configuration for active directory federation services



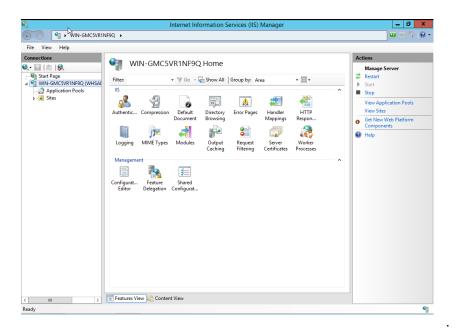
B. This will redirected to Active Directory Federation Services Configuration Wizard. Select create the first federation server in federation server farm then click next



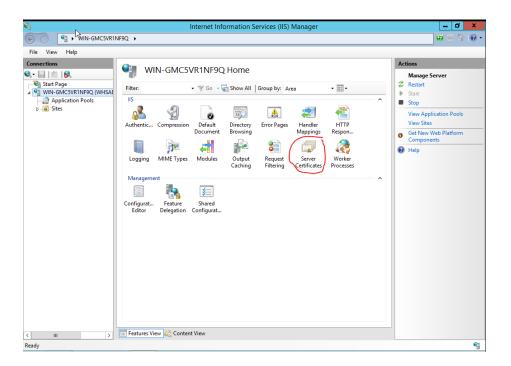
C. Specify the admin we want to use to perform the federation services configuration Then click next (we may use the account we created earlier)



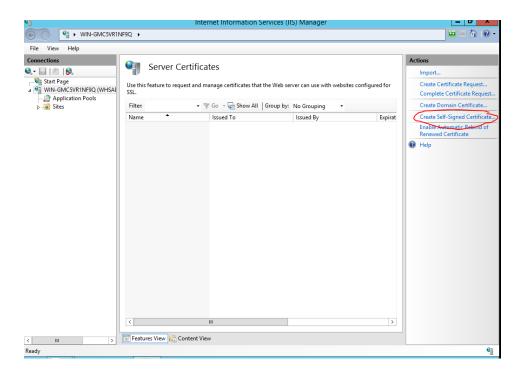
- D. Importing SSL Certificate and assigning federation service name
 - To create an self sign SSL certificate go to IIS by searching IIS to windows search bar.



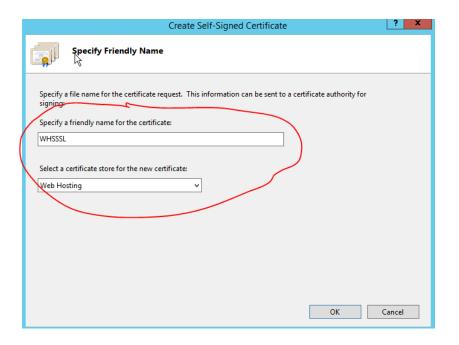
In IIS manager click on Server Certificates



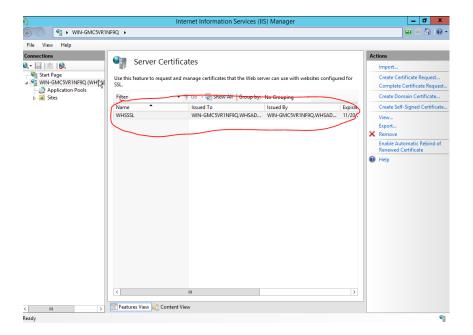
• On the right side of the IIS click on Create Self Signed Certificate



• Specify the name of certificate and select web hosting in select a certificate store for the new certificate. then click ok



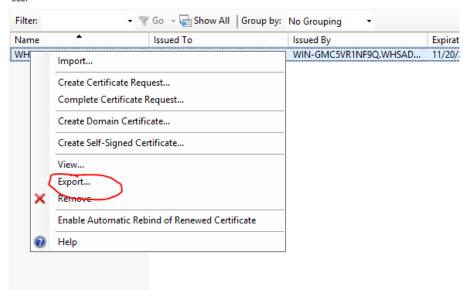
• You will see that the certificate will be created in the Server Certificates.



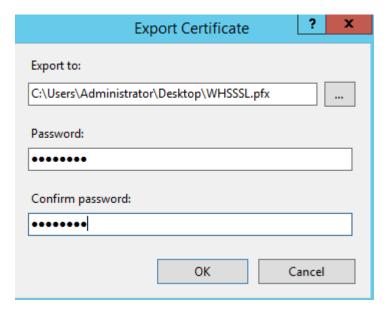
Right click on the newly created SSL and click on export



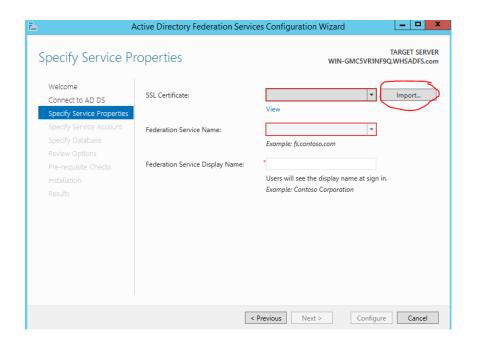
Use this feature to request and manage certificates that the Web server can use with websites configured for SSL.

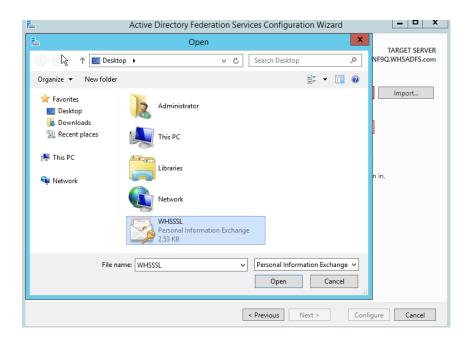


 A pop up will show and will ask to assign where will the SSL be exported to and will also ask for a password then click ok

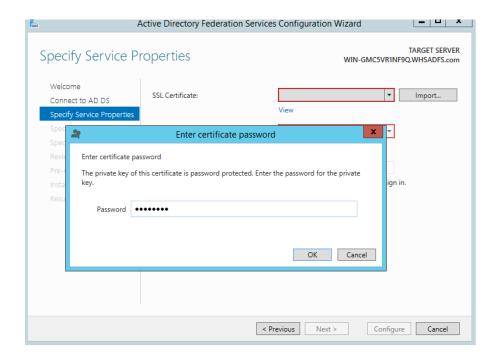


 Go back to the Active Directory Federation Services Configuration Wizard page on the SSL Certificate click on import and locate the directory where we put the exported SSL then click open.

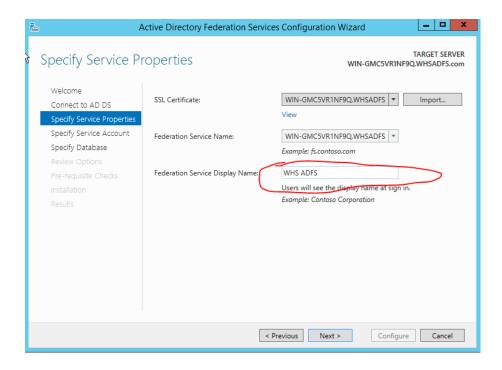




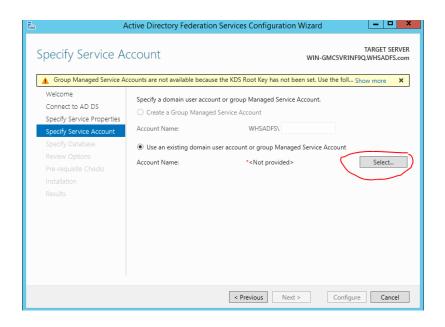
It will ask a password, just key in the password we assign earlier



Lastly assign the federation service display name then click next



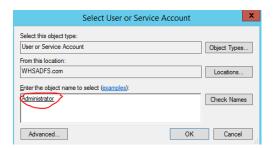
- E. Specify a service account just like earlier we can use the admin account we created when we install the windows server.
 - Click on select



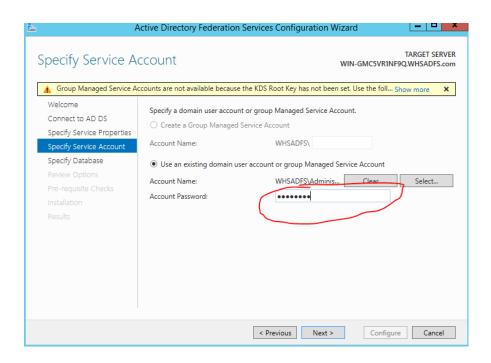
• Specify the account we will use on the enter the object name to select



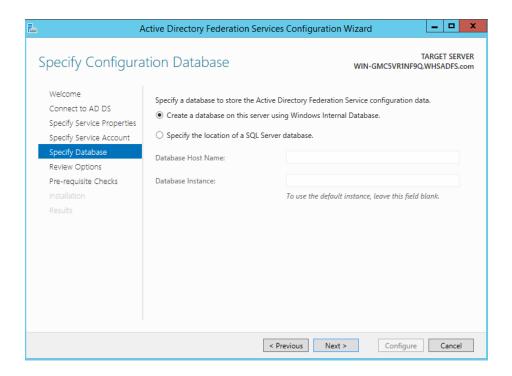
 Key in the user we will be using we can type in admin then click on check name so that it will automatically put the user on the text area. Please ensure that there is an underline with in the username then click ok.



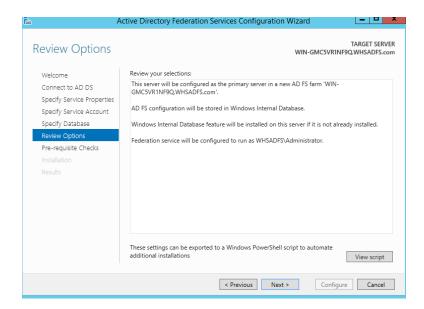
F. Specify service account will ask for a account password. Then click next



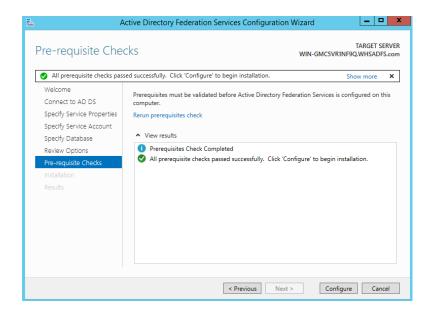
G. Specify Configuration of database. Select create a database on this server using windows internal database. Then click next.



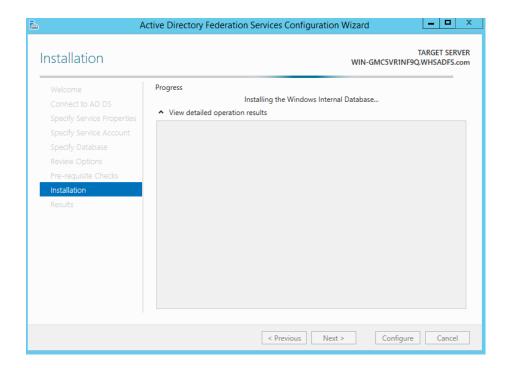
H. Review Options, click on next



I. Prerequisite check, click on configure



J. wait for the installation to be finish.



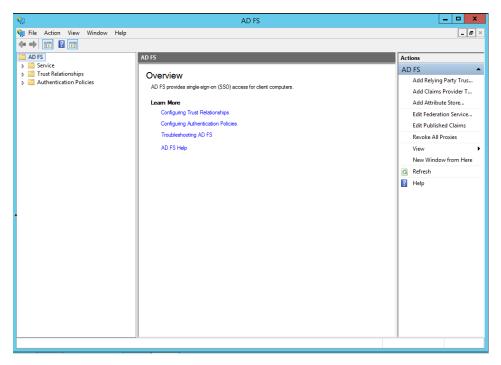


Specifying Relying Party Trusts

A. In windows search type in ad fs, AD FS Management will be shown then click it.

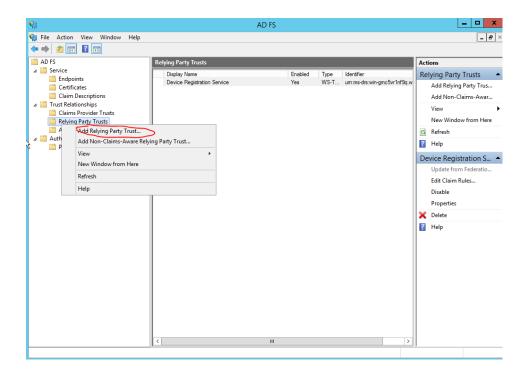


B. AD FS management will be shown

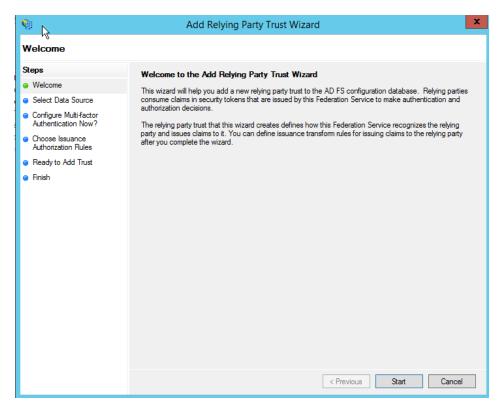


C. on the

left side right click Trust Relationships > Relying Party Trusts then click Add Relying Party Trust

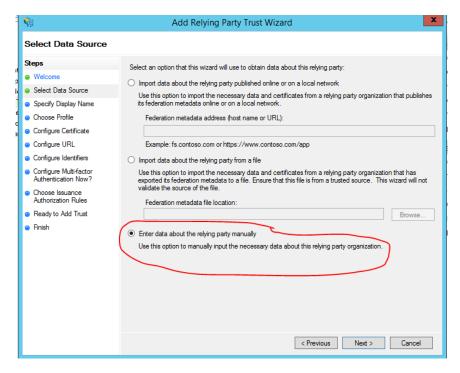


D. Add Relying Party Trust wizard will be shown then click start.



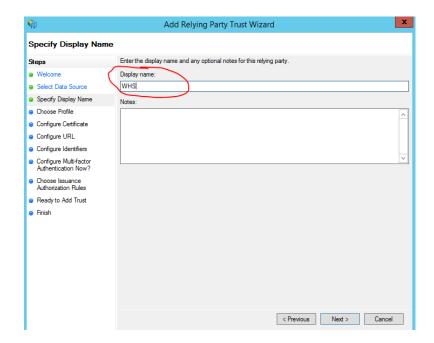
E. Select data

about the relying party manually.then click next

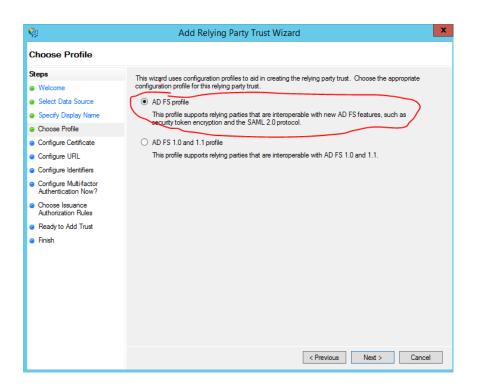


F. Specify the

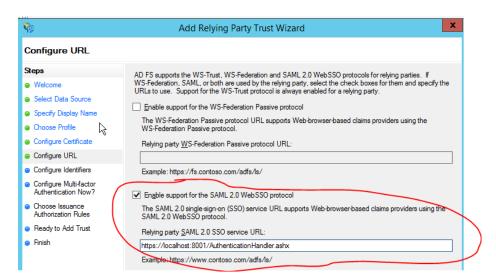
name we want to be display on the SSO login page. Then click next



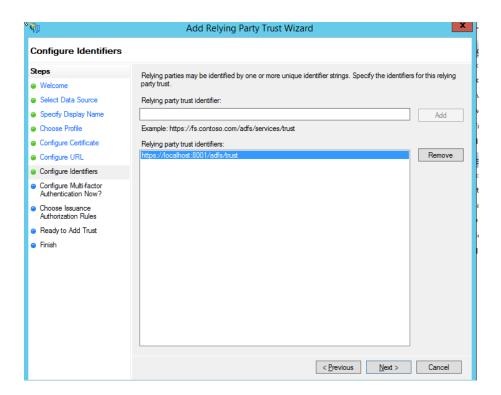
G. Select AD FS profile then click next.



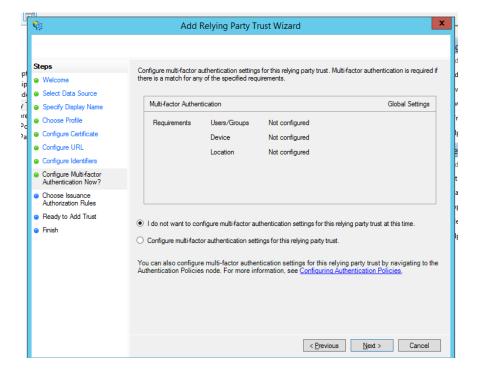
H. Configure Url check enable support SAML 2.0 WebSSO protocol and key in the application url we need to specify the url of WHS in this then click next



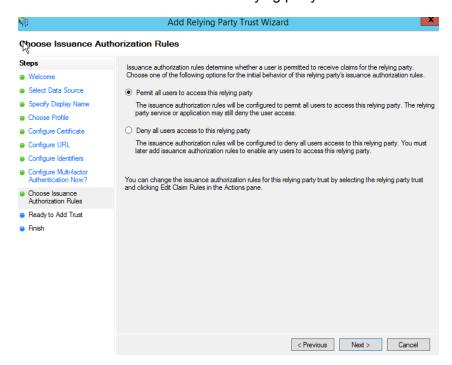
I. Add trust url this is also WHS application url. Then click next



J. Selects I do not want to configure multi-factor authentication settings then click next

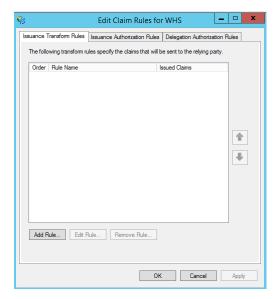


K. Click on Permit all users to access the relying party.

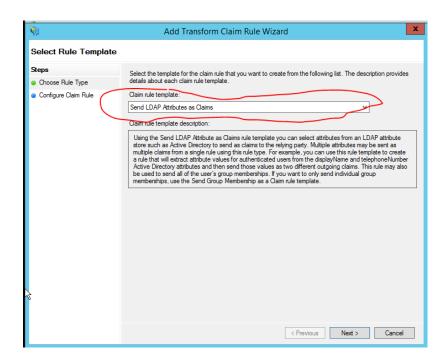


L. Click on Next then Click on finish

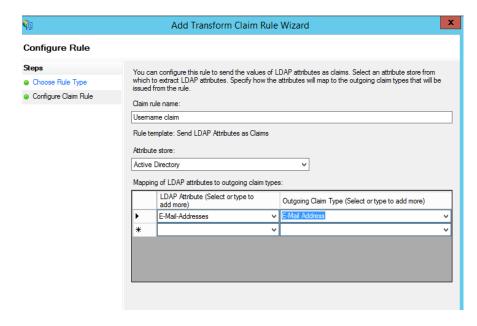
M. Edit claim rules for WHS will be displayed



M. Click on add rule add transformation claim rule wizard will be shown. Select Send LDAP Attributes as claim in claim rule template, then click next.



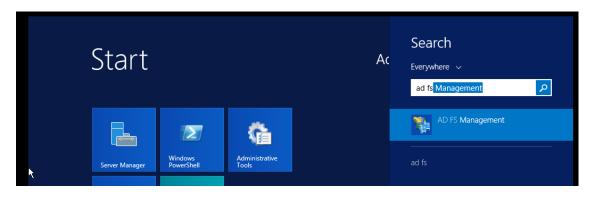
N. Set claim rule name and the items we want to use as authentication module in WHS. then click finish



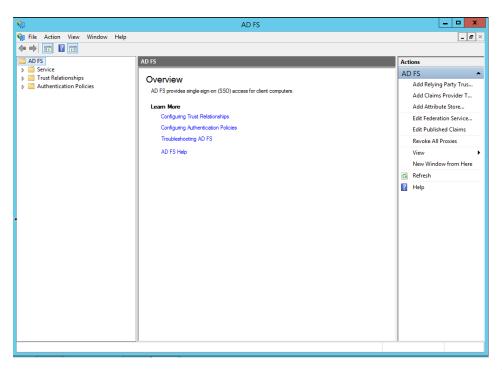
O. Click on restart.

Trying AD FS

A. In windows search type in ad fs, AD FS Management will be shown then click it.

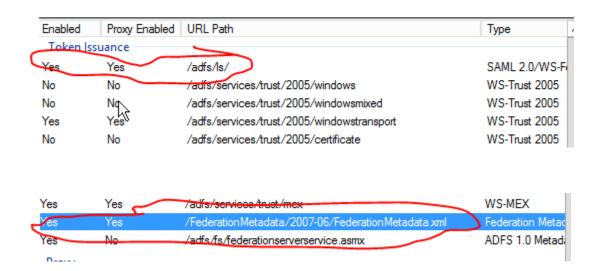


B. AD FS management will be shown



C. check

the following if enable on the left side click on Service > Endpoint check on /adfs/Is and /federationMetadata/2007-06/FederationMetadata.xml



D. In the pc that is hosting the VMWare try to access the adfs/Is and /federationMetadata/2007-06/FederationMetadata.xml by using the https://{pcname}/adfs/Is or https://{pcname}/federationMetadata/2007-06/FederationMetadata.xml