**For example There is a open something and I want to go on start steps are (improve clicking and please get lost)**

**Assignment Number 2**

**System Administration**

**Due Date:**

**Task 1**

The following scenarios need to solve through several common uses for Server Manager and its related technologies Initial Configuration Tasks and Remote Server Administration Tools.

* **Scenario 1: Completing the configuration of Deploying Windows Server Update Services (WSUS)**
* Installing WSUS (manage=add roles and features= add windows server update services)
* Configuring WSUS (notification =automatic configuration hoge )
* Configuring WSUS Synchronization (tools=windows update services=synchronization(id tk kafi hai hai ya dikha do) = rightclick= synchroinize now and wait for it to succeed it will take few minutes aroud 5 )
* Configuring WSUS Computer Groups (tools=windows update services=computers = all computers = right click = add computer groups )
* Configuring Group Policies for Updates (tools= group policy management= forest=domain=hitech=default domain =right click=edit=computer configuration=policies=administrative templates=windows component=window update(last option)=configure automatic update(4th)=enable)
* Configuring Client-Side Targeting (tools= group policy management= forest=domain=hitech=default domain =right click=edit=computer configuration=policies=administrative templates=windows component=window update(last option)=client side targeting=enable)
* Approving Updates (tools=windows update services=updates= all updates = approved , any krna hai phla sa he hoa hota hai ahi wsy)
* Viewing Reports (tools=windows update services=reports )
* **Scenario 2: Performing initial configuration tasks in the Server Manager console**

Although initial configuration tasks have been completed and the Initial Configuration Tasks window is now closed, an administrator has decided to enable automatic updating and feedback on the computer running Windows Server 2012. The administrator uses Server Manager to modify settings, instead of running Initial Configuration Tasks once again. The administrator enrols the server in the Customer Experience Improvement Program (CEIP), and turns on automatic updating and Windows Error Reporting.

Participating in CEIP by using Server Manage (local server= on/off)

* Changing automatic updating settings by using Server Manager(local server =Ethernet=controlpanel=security&services=windows update)
* Participating in Windows Error Reporting by using Server Manager (local server =participate/unparticipate)
* **Scenario 3: Adding Terminal Services and viewing its status**

A company has just purchased a new server. The new computer must run Terminal Services to provide centralized access to individual applications without the necessity of providing Remote Desktop access to each employee.

* Adding Terminal Services and TS Web Access (Manage=addrole&fetaures=next…=select remote desktop servies=next…= select expand button = tick check box of virtual...=next=deploy )
* Managing Terminal Services by using Server Manager (tools=terminal services=remote desktop gate way management )
* Removing Terminal Services by using Server Manager (manage=remove role and features=remove remote desktop access)
* **Scenario 4: Using Remote Server Administration Tools to manage Print Services remotely**

An administrator is running the Server Core installation option of Windows Server 2012. The administrator installs the Print Services role on this server. After that, the administrator wants to manage the server remotely from another computer that is running a full installation of Windows Server 2012.

* Adding Remote Server Administration Tools for Print Services (manage=add role and features=next….=print and documents services =tools=powershell ISE=”net stop spooler”and “net start spooler”)
* Managing Print Services remotely by using the Print Management snap-in(tools=print management= right click =,lkadd/remove server , printer etc )
* Removing Remote Server Administration Tools for Print Services (manage=remove=next….)
* **Scenario 5: Adding and removing the Print Services role by using the Server Manager command line**

A company has purchased a new server. The new computer must run Print Services for the engineering department. After installing Windows Server 2012 on the computer and completing initial configuration tasks, a system administrator adds the Print Services role to the server by using the Server Manager command line.

* Adding Print Services by using the Server Manager command line (tools=powershel ISE=”Install-WindowFeature –Name Print-Services -IncludeManagementTool” )
* Removing Print Services role services by using the command line (tools=powershel ISE=”Remove-WindowFeature –Name Print-Services” )
* **Scenario 6: Adding File Services and Windows Server Backup by using an answer file**

An administrator wants to create a DFS namespace to facilitate file sharing among company employees. Because important data is hosted on the server running File Services, it is important to back up the server by using Windows Server Backup.

* Adding File Services and Windows Server Backup by using an answer file

**Task 2**

1. Create a Windows PowerShell script that runs a series of commands that removes the static IP address, subnet mask, default gateway, and DNS server settings from the network adapter of a server and then assigns a different static IP address, subnet mask, default gateway, and DNS server settings to the adapter. (tools=power shell ISE=”New-NetIpAddress –InterfaceAlias “Ethernet0” –IPAddress 192.168.0.1 –PrefixLength 24 –DefaultGateway 192.168.0.1”)
2. Create a Windows PowerShell script that runs a series of commands that assigns static IP addresses to two network adapters on a server and then adds static routes to the router table to enable the server to be used as a router to join two subnets together.

**Task 3**

* **Configuring DNS Zones**

To provide DNS services, you first need to deploy DNS. Then after you have DNS servers, you have to create each zone and then add resource records to each zone. Because DNS is an essential service for a network, you should give some thought to it and plan before you deploy DNS.

* Installing DNS(manage=add role and features= DNS)
* Configuring Primary and Secondary Zones(tools=DNS=forward lookup zone->rightclick = add new zone = primary add kro phla , pir secoundry add kro isi tarika sa)
* When creating zones, there are two types of lookup zones to create:
  + Forward lookup zone
  + Reverse lookup zone
* Create A Standard Forward Lookup Primary Zone(tools=DNS=forward look up zone right click=new zone =primary zone= enter name)
* Create A Standard Forward Lookup Secondary Zone(tools=DNS=forward look up zone right click=new zone=Secondary zone = enter name+Ip(192.168.30.0))
* Create A Standard Reverse Lookup Primary Zone For An Ipv4 Subnet(tools=DNS=Reverse look up zone right click=new zone=primary zone=ip4= enter name+Ip(192.168.0)
* Create A Standard Reverse Lookup Primary Zone For An Ipv6 Subnet(tools=DNS=Reverse look up zone right click=new zone=primary zone=ip6 = prefix=”2001:0db8:ac01:fe10::/64”)
* Configuring Zone Delegation(tools=dns=forward look up zone =name right click=new delegation=enter name=next=add=”hitech.com+192.168.30.0”=next..)
* Delegate A DNS Domain (tools=dns=forward look up zone =name right click=new domain=enter name)

**Task 4**

* **Configuring File Server Resource Manager (FSRM)**
* Installing File Server Resource Manager (manage=add role and feature=fss=iscsi=fsrm)
* Creating Quotas (tools=fsrm=quotas management=quotas templats right click = create templates =ok)
* Changing Quotas Templates (tools=fsrm=quotas management=quotas templats right click = create templates =name= edit templates=soft=ok= apply all template drive quotas )
* Monitoring Quota Use (tools=fsrm=quotas management=quotas right click = create quotas =brows= c drive = make new= ok = create )
* Managing Files with File Screening(tools=fsrm=file management task=file screen management= file screen right click =create file screen= browse=c drive = make new folder “name”= create , defin custome file screen properties= custome properties= select name and txt file = ok = save c f t without creating template= ok =the go to desktop and copy paste file )
* Creating File Groups(tools=fsrm=file management task=file screening managemen = file group= create file =name =file to include”wasim.avi.txt”=file to exclude”saddam.exe.txt”)
* Creating a File Screen (tools=fsrm=file management task=file screening management = file screen right click create file screen = path )
* Creating a File Screen Exception (tools=fsrm=file management task=file screening management = file screen right click create file screen exceptions = path )
* Creating a File Screen Template (tools=fsrm=file management task=file screening management = file screen template right click create file screen template = name + select any )
* Using Storage Reports(tools=fsrm= storage report management right click schedule new report = name =scope main 1 select = schedule (monthly and select 1 day)
* Enabling SMTP (tools=gpo=forest =domain=hitech=default domain police= right click =edit=user configuration = police=administrative template=window component=MS Management Console=restrict/permitted snap-ins=extension snap-ins=smtp protocal=enable or disable )

**Task 5**

* **Configuring VPN and Routing**
  + Installing and Configuring the Remote Access Role(manage>>Add role and features>>Remote Access>>Install)
  + Installing Routing and Remote Access (manage>>Add role and features>>Routing Remote Access>>Install)
  + Configuring Routing and Remote Access (Tools>>Routing and Remote Access>>Right Click on WIN….>>Configure and Enable Routing and Remote)
  + Configuring RRAS for Dial-Up Remote Access (Tools>>Remote Access Management>> Direct Access & VPN>>Open RRAS Management>>Right Click on Win…>>Configure>>Custom Config>>Dial-up access>>ok & finish)
* Configuring VPN Settings
  + Configuring the VPN Connection on the Server (Tools>>Remote Access Management>> Direct Access & VPN>>Open RRAS Management>>Right Click on Win…>>Configure>>Custom Config>>VPN access>>ok & finish)
  + Creating a VPN Connection on a Client (Client server>> Network Open Network and Sharing Center>>Set UP a new connection>>Connect to a workplace>>Create a new connection>>use my internet connection VPN>>let me decide later>>Domain IpAddress>>user name >> password >>ok)
  + VPN Reconnect (Client server>> Network Open Network and Sharing Center>>Set UP a new connection>>Connect to a workplace>>Connect to a connection >>user name >> password >>ok)
  + Configuring Split Tunnelling(Client Server>>Network & Sharing Center >> Change Adapter Setting >>Right Click on VPN Con >>Properties >>Networking >>IPv4 >>Properties >>Advanced >>uncheck IP setting>>apply)
* Configuring Remote Dial-In Settings for Users(Tools>>User and computer>>Right Click on User you want to access>>Properties>>Dial-in>>Allow Acceess>>ok)
* Configuring Routing
  + Managing Static Routes(Tools>>Routing and remote access>>WIN>>IPv4>>Static Routes)
  + Configuring RIP (Tools>>Routing and remote access>>WIN>>IPv4>>Gernel>>Right Click>>New Routing Protocol>>RIP version 2>>Ok)
  + Configuring Demand-Dial Routing (Tools>>Routing and remote access>>WIN>>Network Interface>>Right Click>>New Demand Dial Interface>>next until user name, Domain name, Password, confirm password form >>Username>>Domain Name>>password>>confirm Password>>Ok)
  + Configuring the DHCP Relay Agent(Tools>>Routing and remote access>>WIN>>Right Click>>Configure>>Custom Cong.>>LAN routing >>Finish>>IPv4>>Gernal>>Right Click>>New routing protocol>>DHCP Relay Agent>>Ok)
* Configuring RRAS For Dial-Up Remote Access(Tools>>Routing and remote access>>WIN>>Right Click>> Configure>> Custom Cong.>> Dial up routing >>Finish>>IPv4>>Gernal>>Right Click>>New routing protocol>>DHCP Relay Agent>>Ok)
* **Configuring Network Access Protection (NAP)**
* Installing Network Access Protection (Tool >> Network Policy server>>Configure NAP>>DHCP>>Next until new group>>new group >>Add>>friend group>>Domain ip address>>resolve>>finish)
* Configuring NAP Enforcement (tools=network police server=configure NAP= than select DHCP or VPN 460=next….=finish )
* Configuring NAP Enforcement for DHCP (tools=network police server=configure NAP= than select DHCP =next….=finish and than go to polices=network polices = NAP DHCP complaints right click =properties= settings=NAP Enforcement =ok)
* Configuring NAP Enforcement for VPN 460(tools=network police server=configure NAP= than select VPN 460 =next….=finish and than go to polices=network polices = NAP VPN complaints right click =properties= settings=NAP Enforcement =ok)