



ITSA2005

Planning and Implementing Server

Practice-based/Lab-based Exercises

Student Name: Nguyen Tai Vu Le

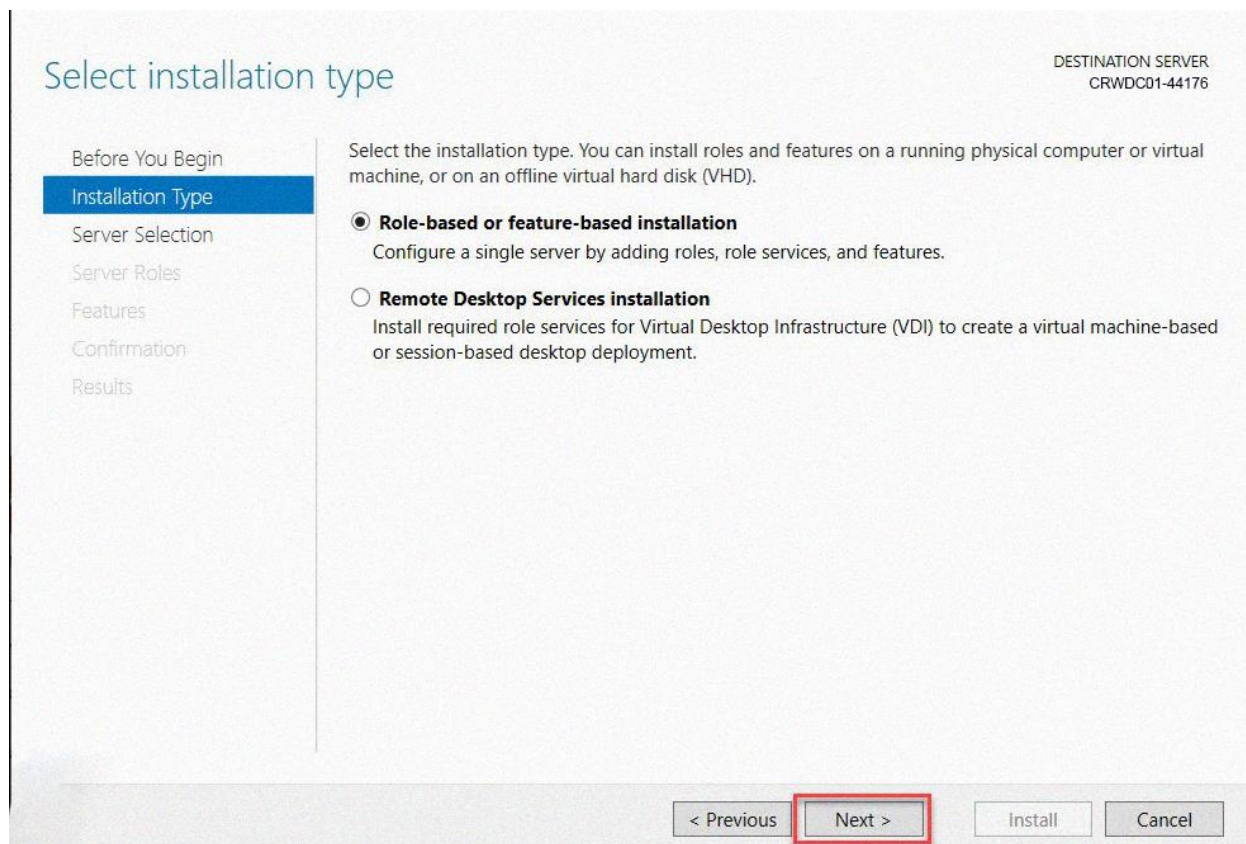
Student ID: 44176

Lab: 4

WSUS Server Installation:

Firstly we will login on our Windows Server so that we can install the WSUS server on it. For this we are using Windows Server 2012 R2, and the created server is named "CRWDC01-44176".

Now we goto *Server Manage* and then click add Roles and features this will start a creation wizard which we follows as per the below screenshots.



Selecting role-based or feature-based installation, then click Next.

Select destination server

DESTINATION SERVER
CRWDC01-44176

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

Select a server or a virtual hard disk on which to install roles and features.

☒ Select a server from the server pool
 ☐ Select a virtual hard disk

Server Pool

Filter:

Name	IP Address	Operating System
CRWDC01-44176	192.168.100.101	Microsoft Windows Server 2012 R2

1 Computer(s) found

This page shows servers that are running Windows Server 2012 or a newer release of Windows Server, and that have been added by using the Add Servers command in Server Manager. Offline servers and newly-added servers from which data collection is still incomplete are not shown.

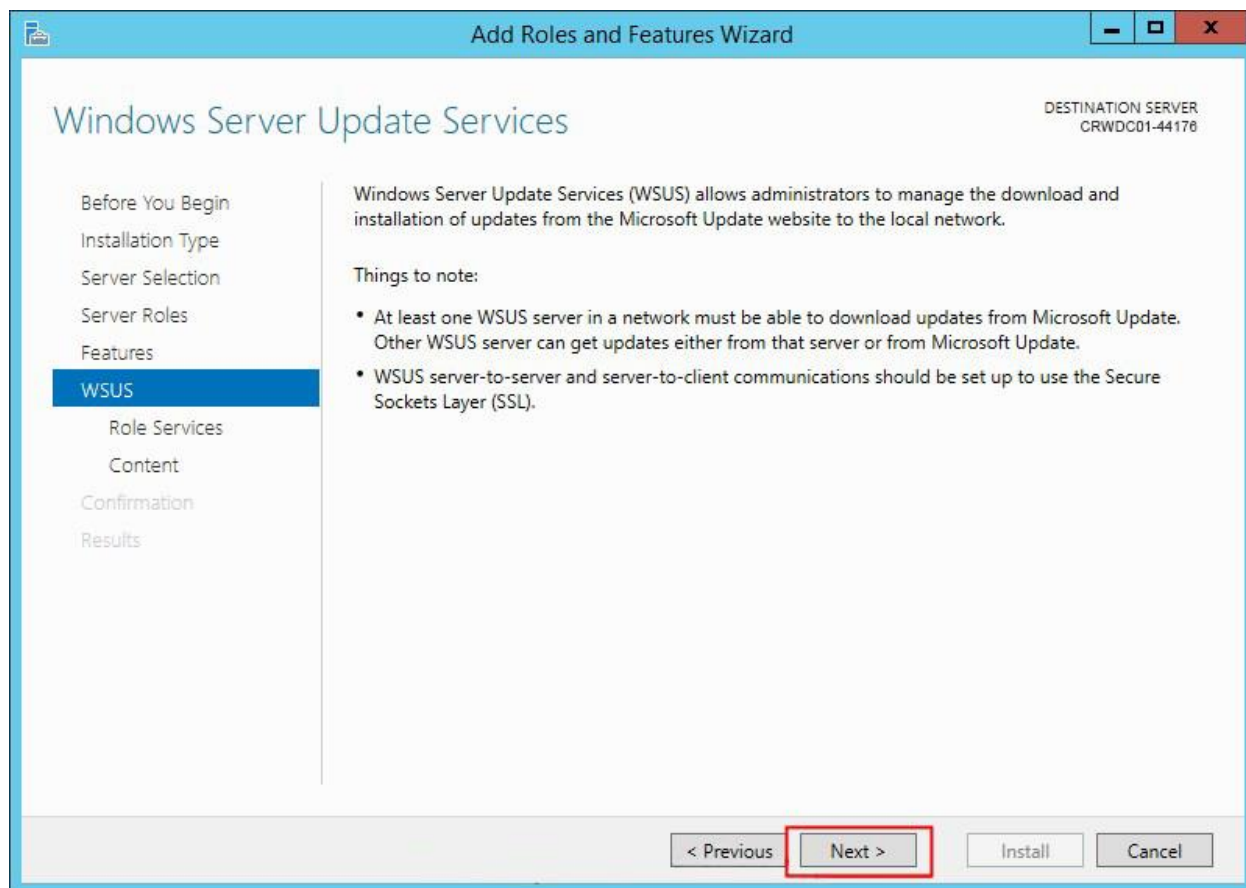
< Previous

Next >

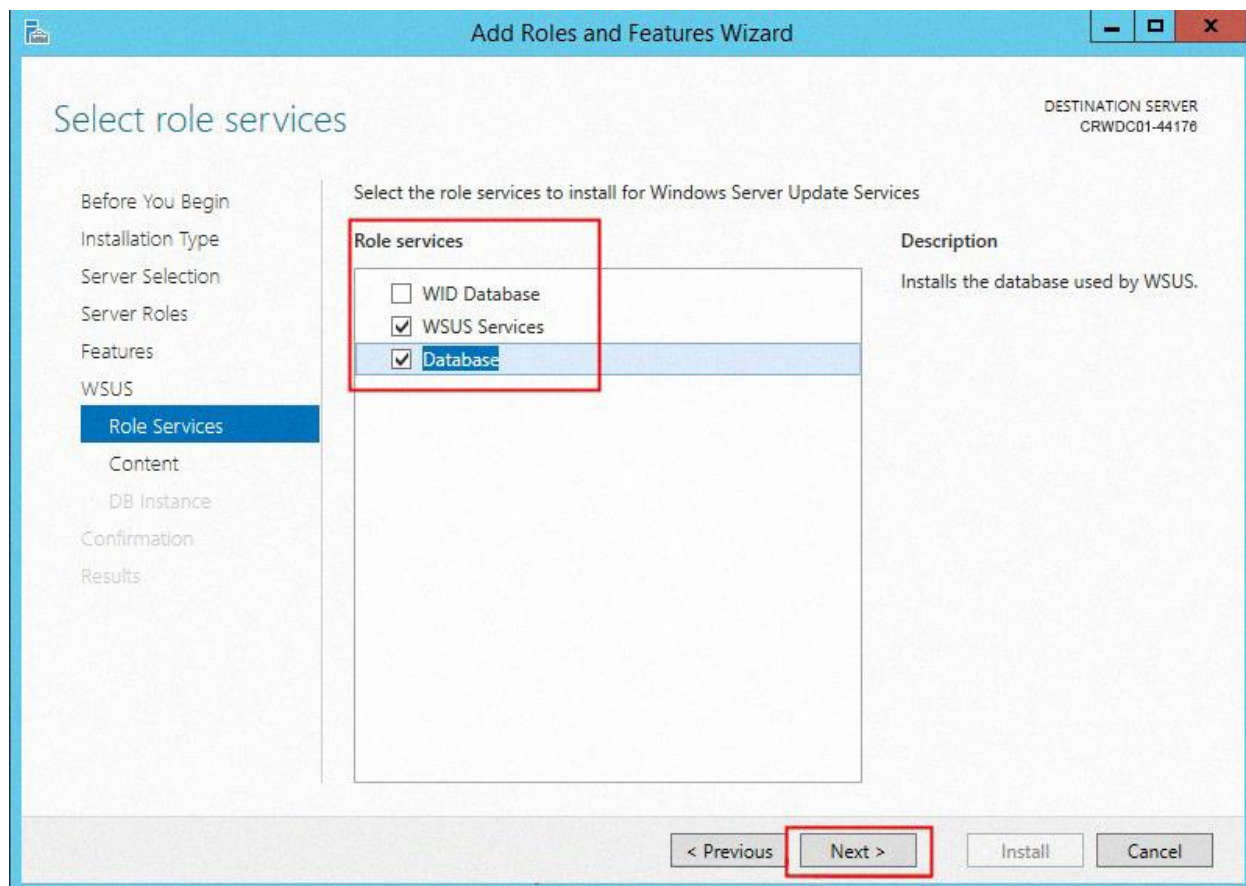
Install

Cancel

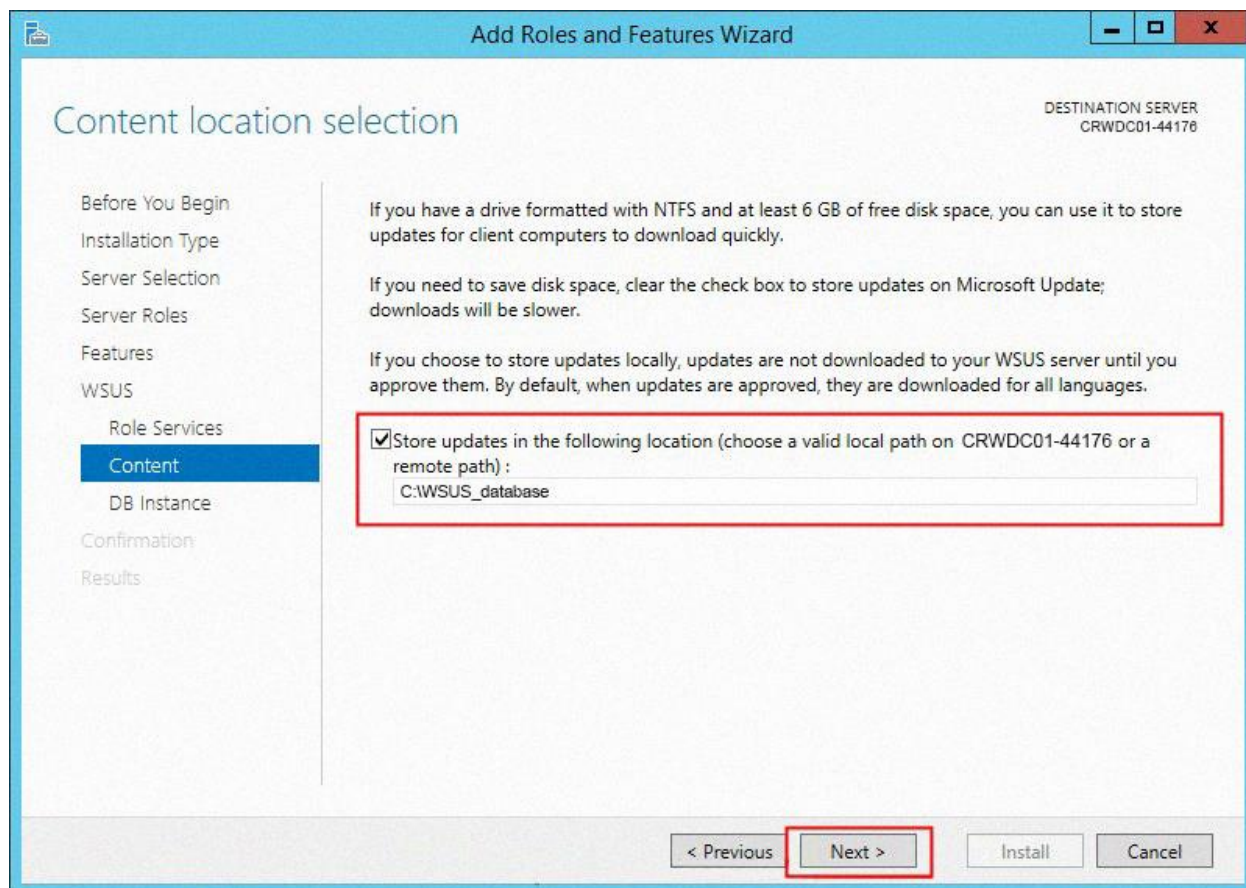
Selecting our created server from the server pool to install WSUS server in it, then click Next.
After this we go through *Server Selection* with default setting and then select the required features.



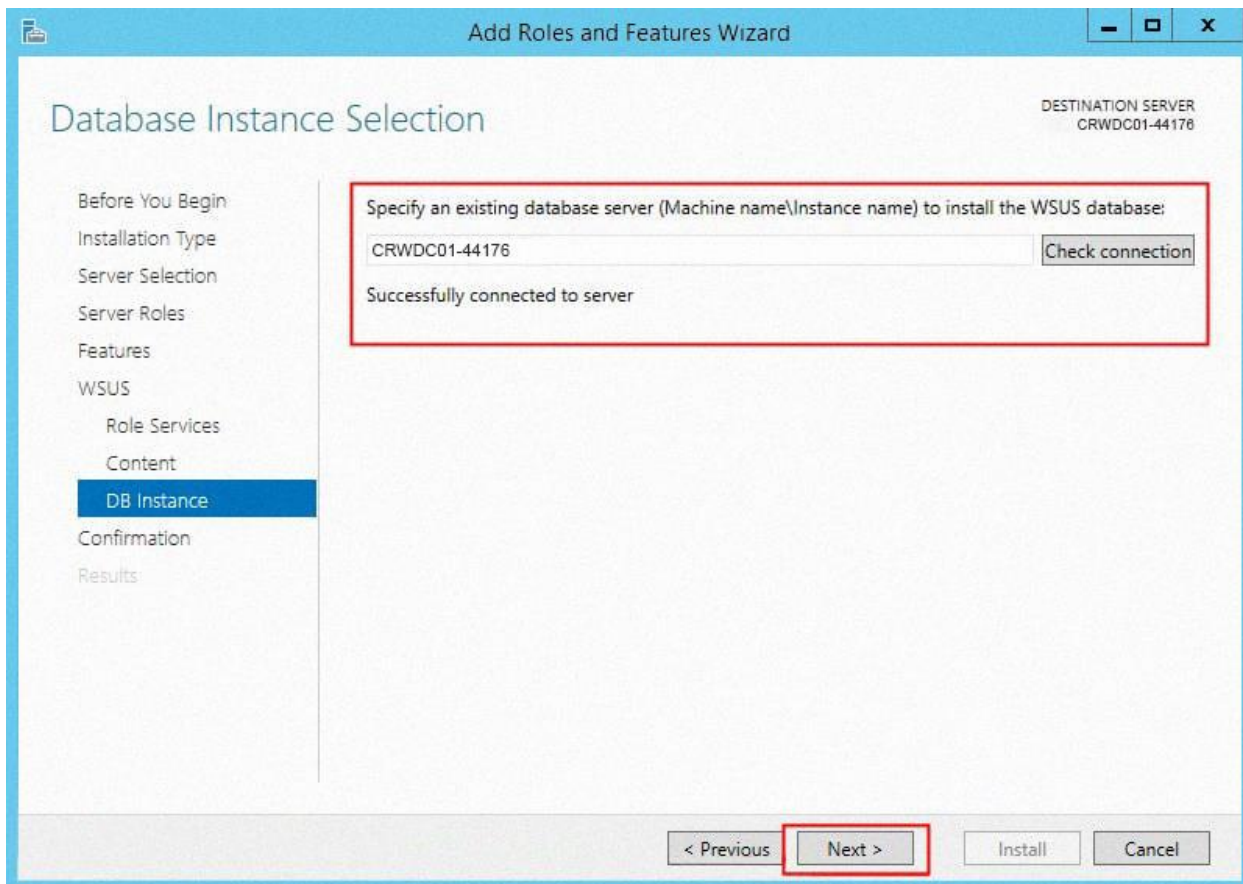
Now we will install the WSUS server on our server selected from the server pool and then click Next.



Now we select WSUS services and Database services for role selection for WSUS to be allowed to access them, then we click Next.



Now we set the updates path for WSUS server as "C:\WSUS_database", then we click Next.



Database Instance Selection

DESTINATION SERVER
CRWDC01-44176

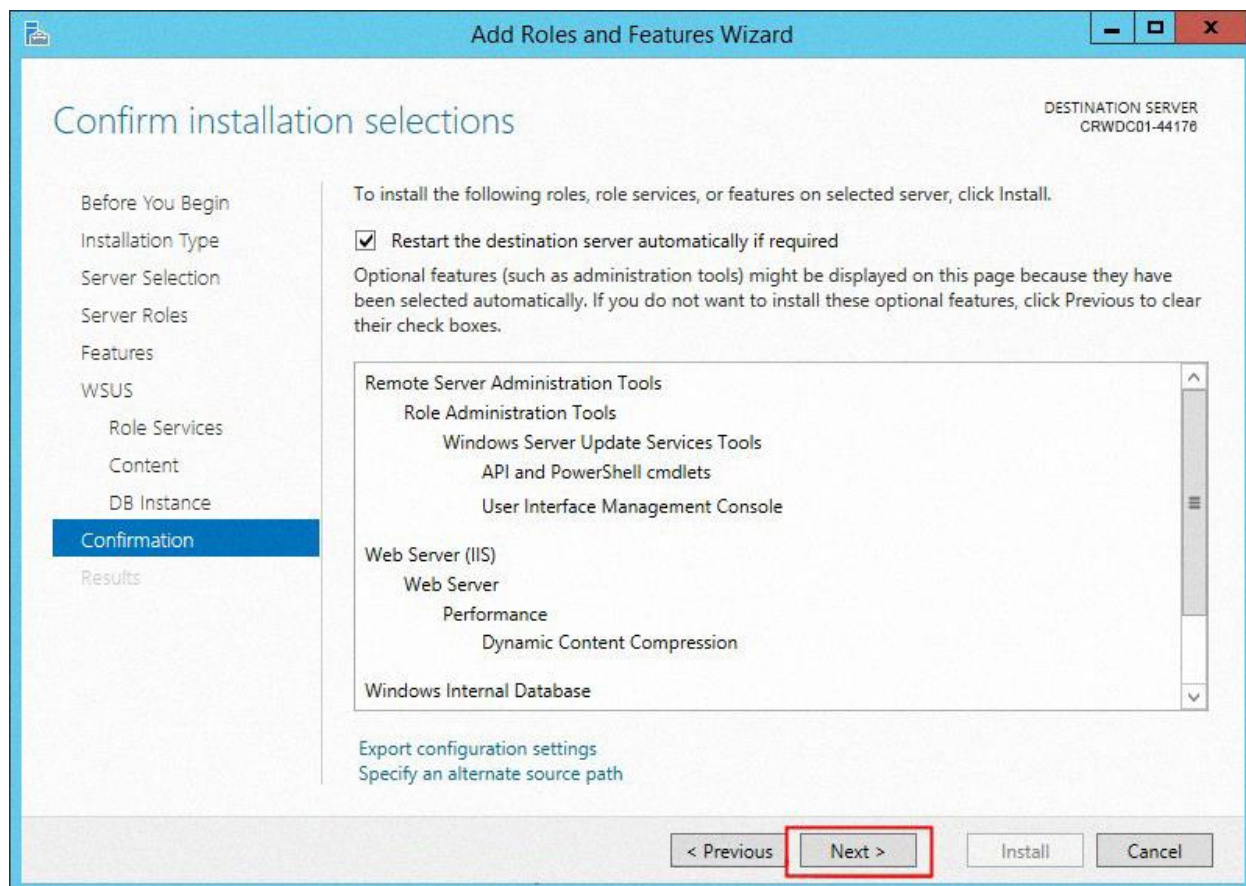
Specify an existing database server (Machine name\Instance name) to install the WSUS database:

CRWDC01-44176 Check connection

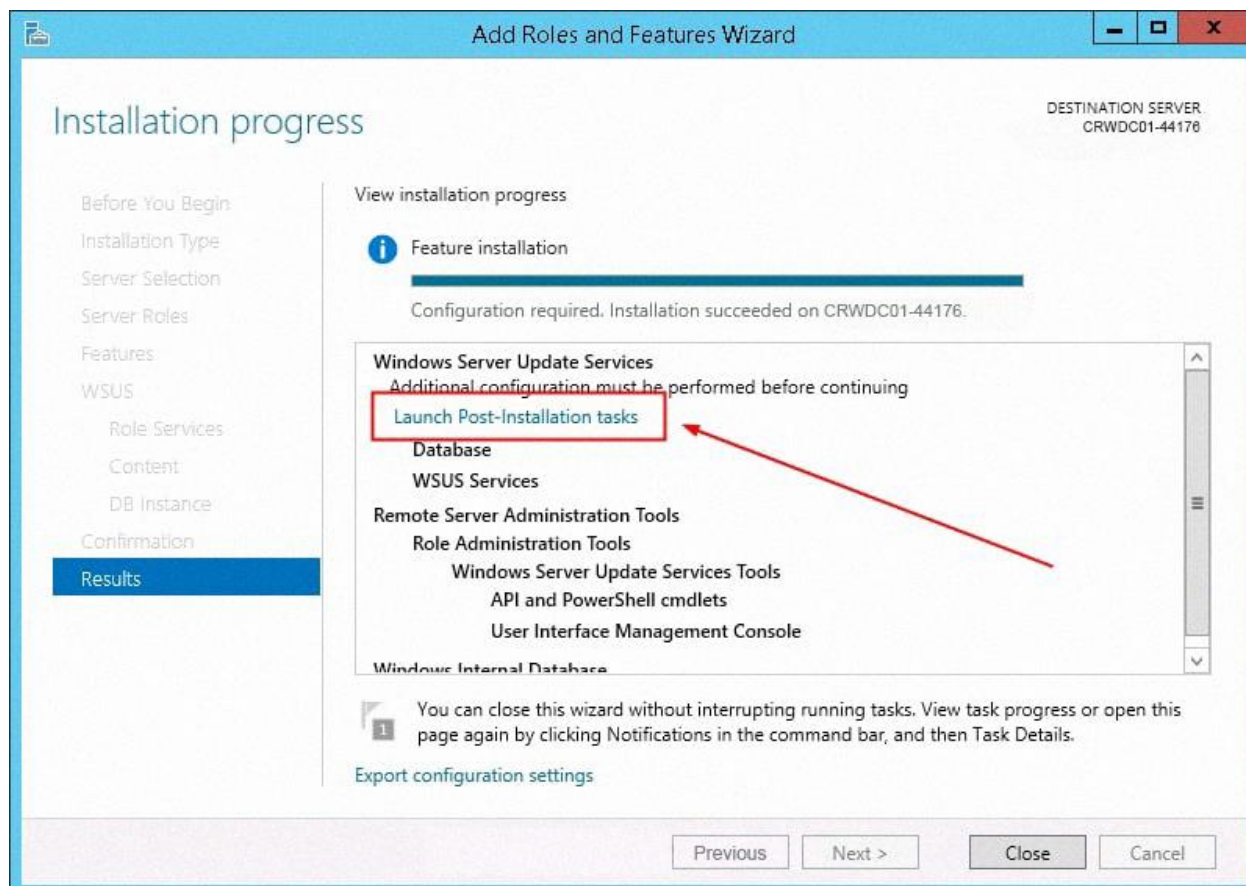
Successfully connected to server

< Previous Next > Install Cancel

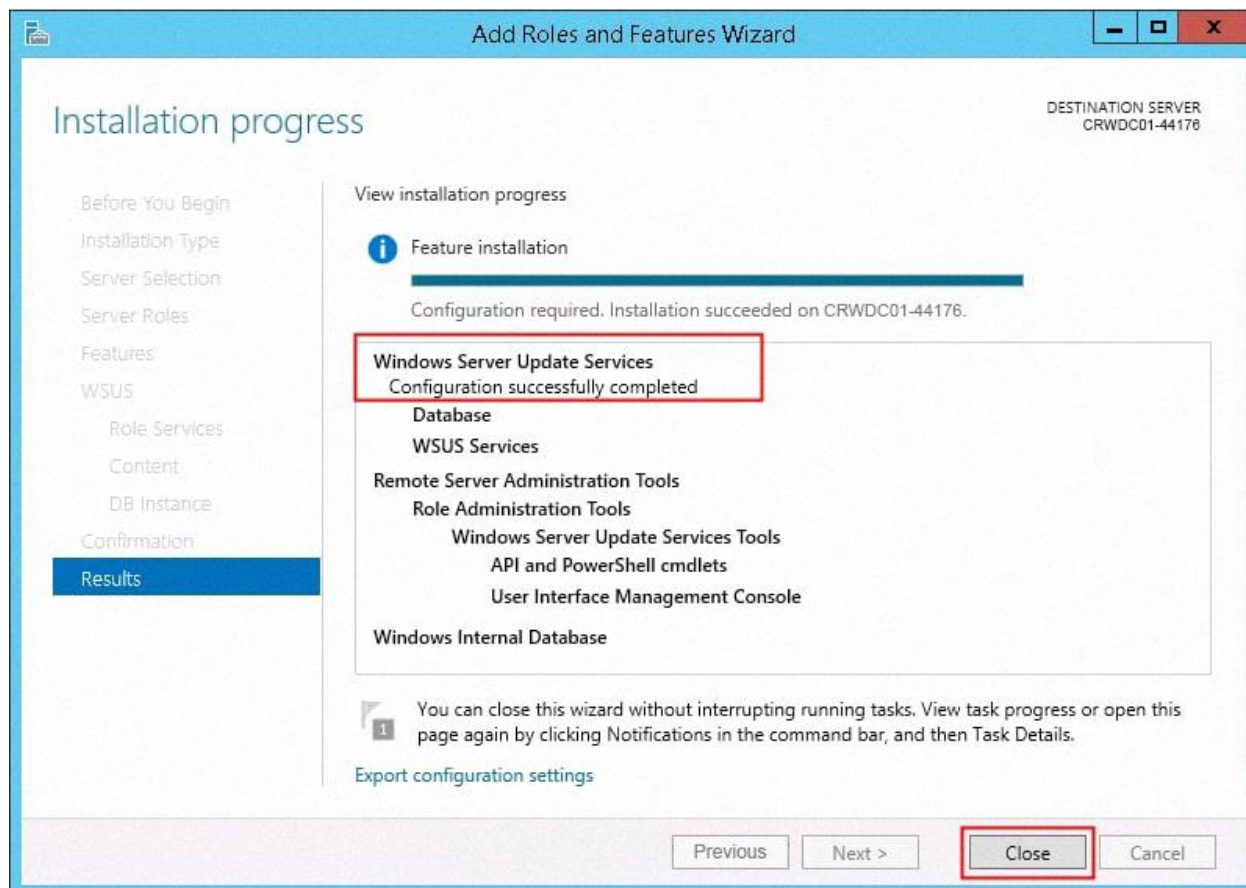
Now we give a database created on our server named “CDWDC01-44176” to WSUS server so it can be accessed and used by WSUS server, then click Next.



Now we select restart server automatically if required after the WSUS server installation and then we



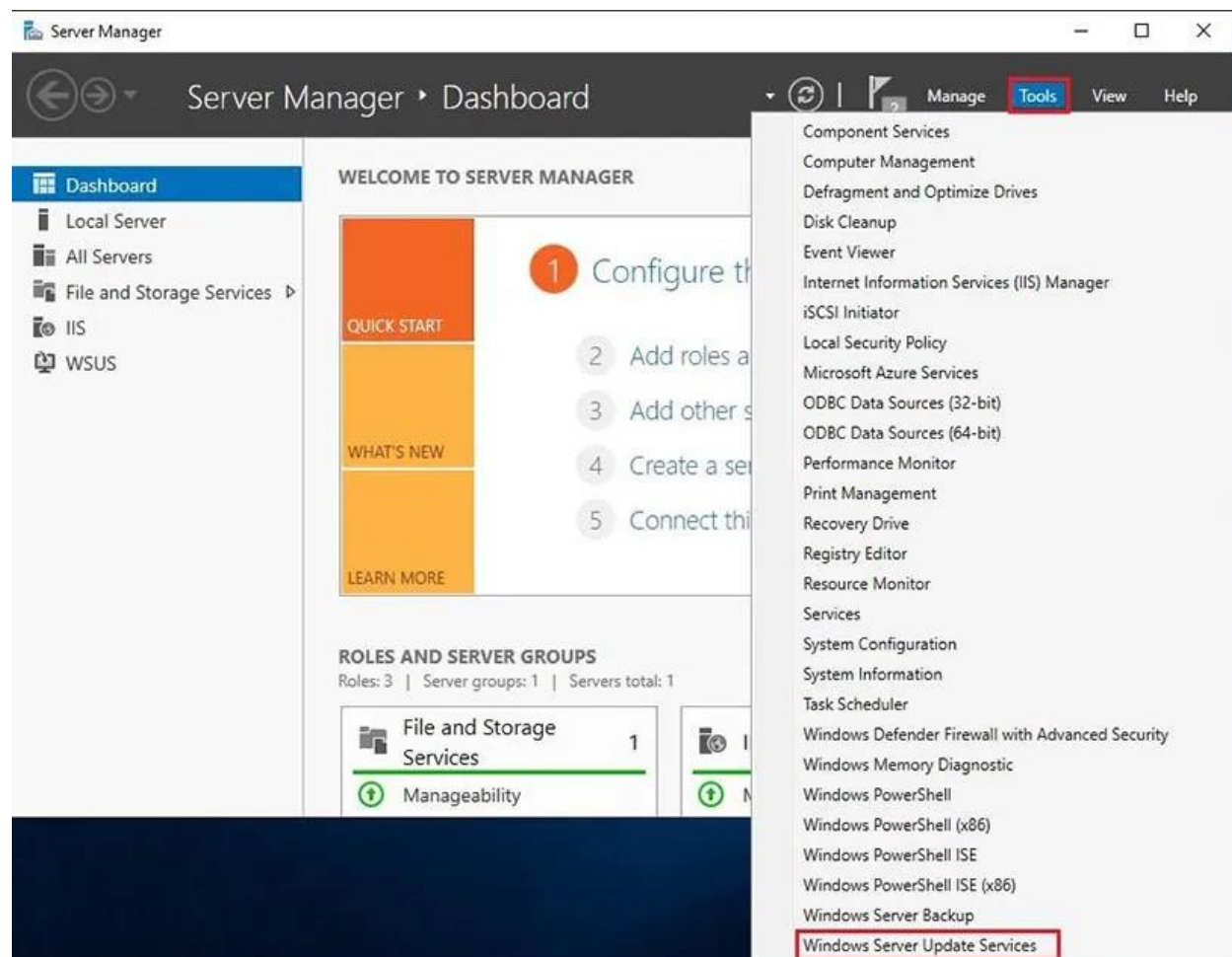
Now we launch the post-installation tasks to confirm installation of the WSUS server.



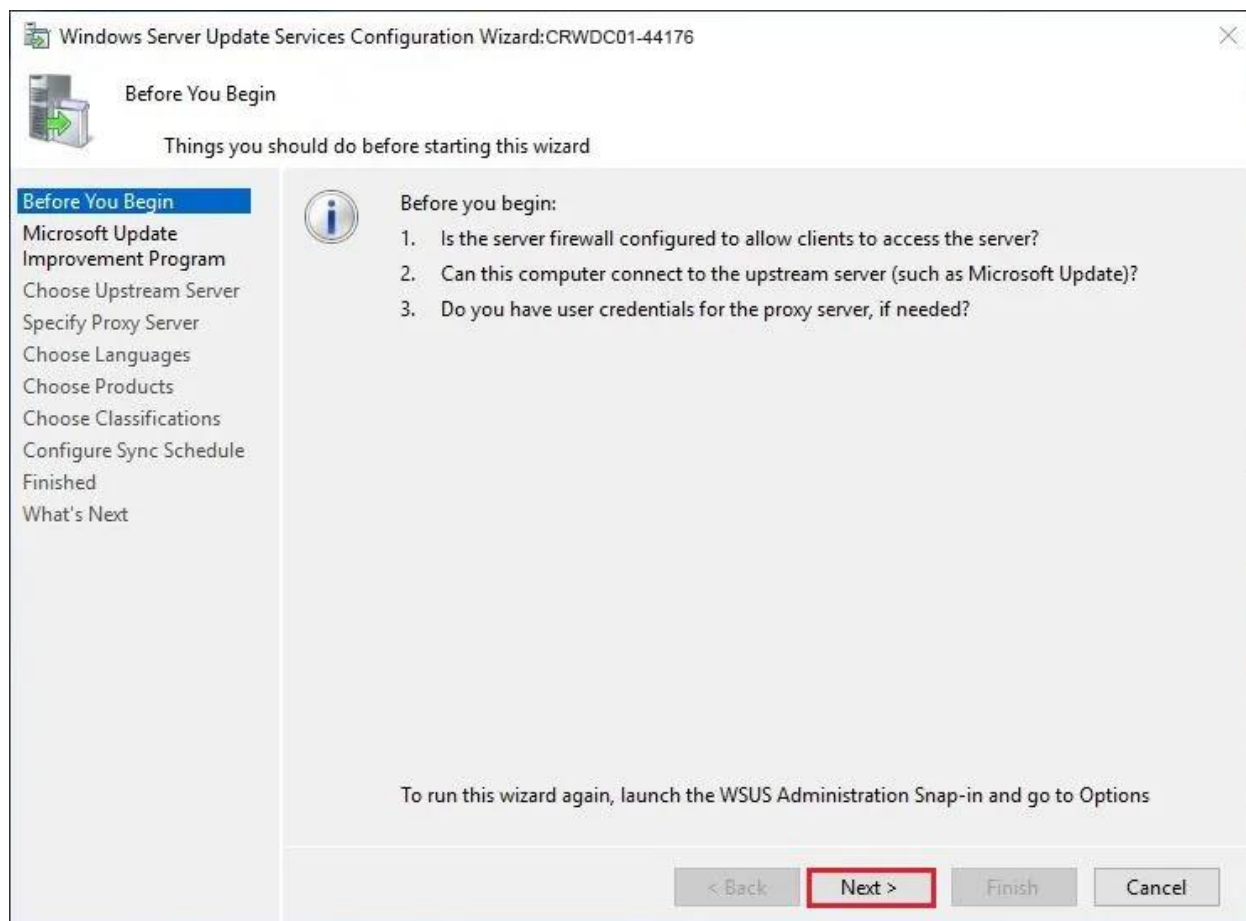
WSUS server successfully installed and running on our server, now we click Close to exit the creation wizard.

Configure WSUS Server:

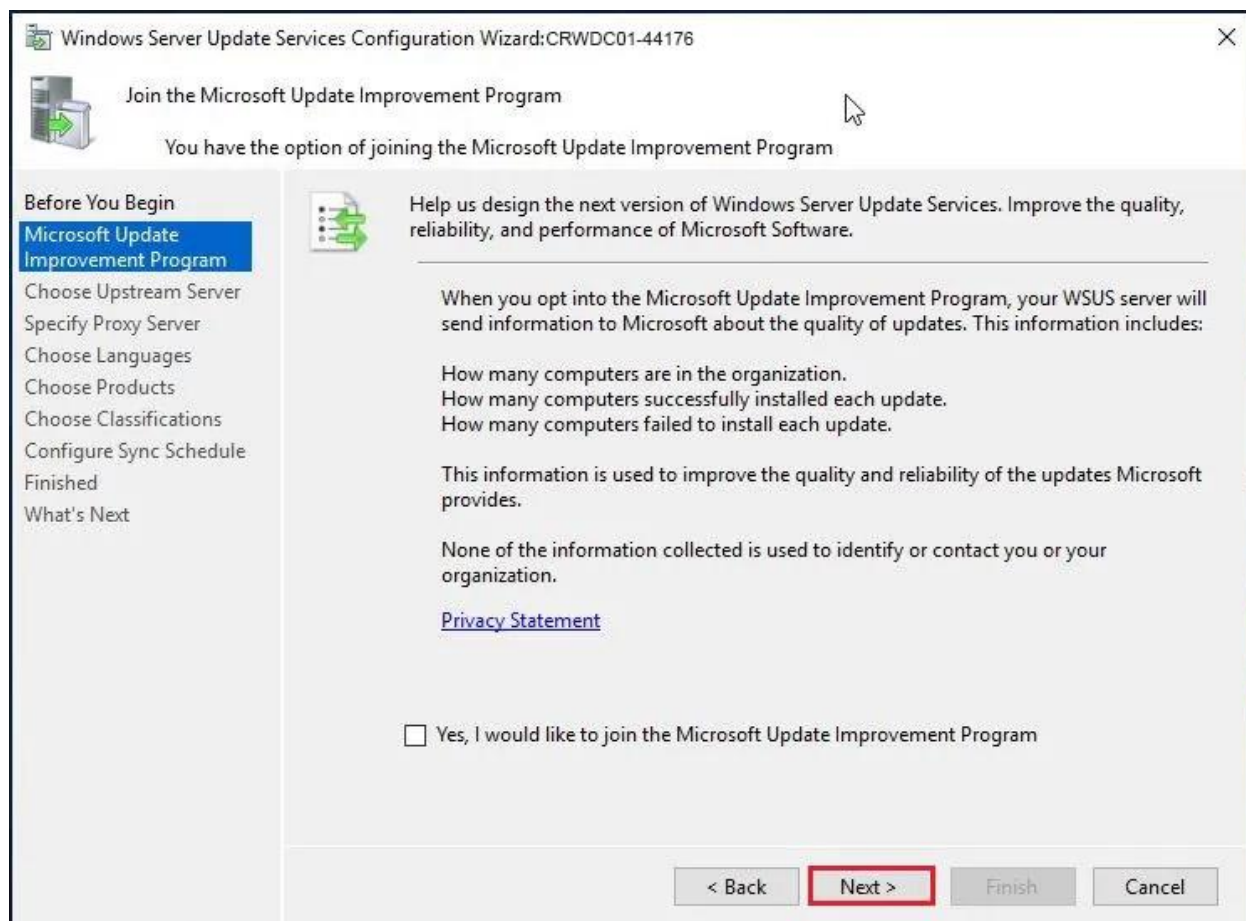
Now that WSUS server is successfully installed we need to configure it with the required features so it can start working, for this we will proceed as shown below:



Go to server manager dashboard, click Tools, and select Windows Server Update Services.



Now the WSUS configuration wizard has started on the installed server as displayed in the above title bar.



Now we will go through the following settings as default selection.

Windows Server Update Services Configuration Wizard: CRWDC01-44176

Choose Upstream Server

Provide the upstream server from which you want to synchronize content

Before You Begin
Microsoft Update Improvement Program
Choose Upstream Server
Specify Proxy Server
Choose Languages
Choose Products
Choose Classifications
Configure Sync Schedule
Finished
What's Next

You can choose the upstream server from which your server synchronizes updates.

☒ Synchronize from Microsoft Update

☐ Synchronize from another Windows Server Update Services server

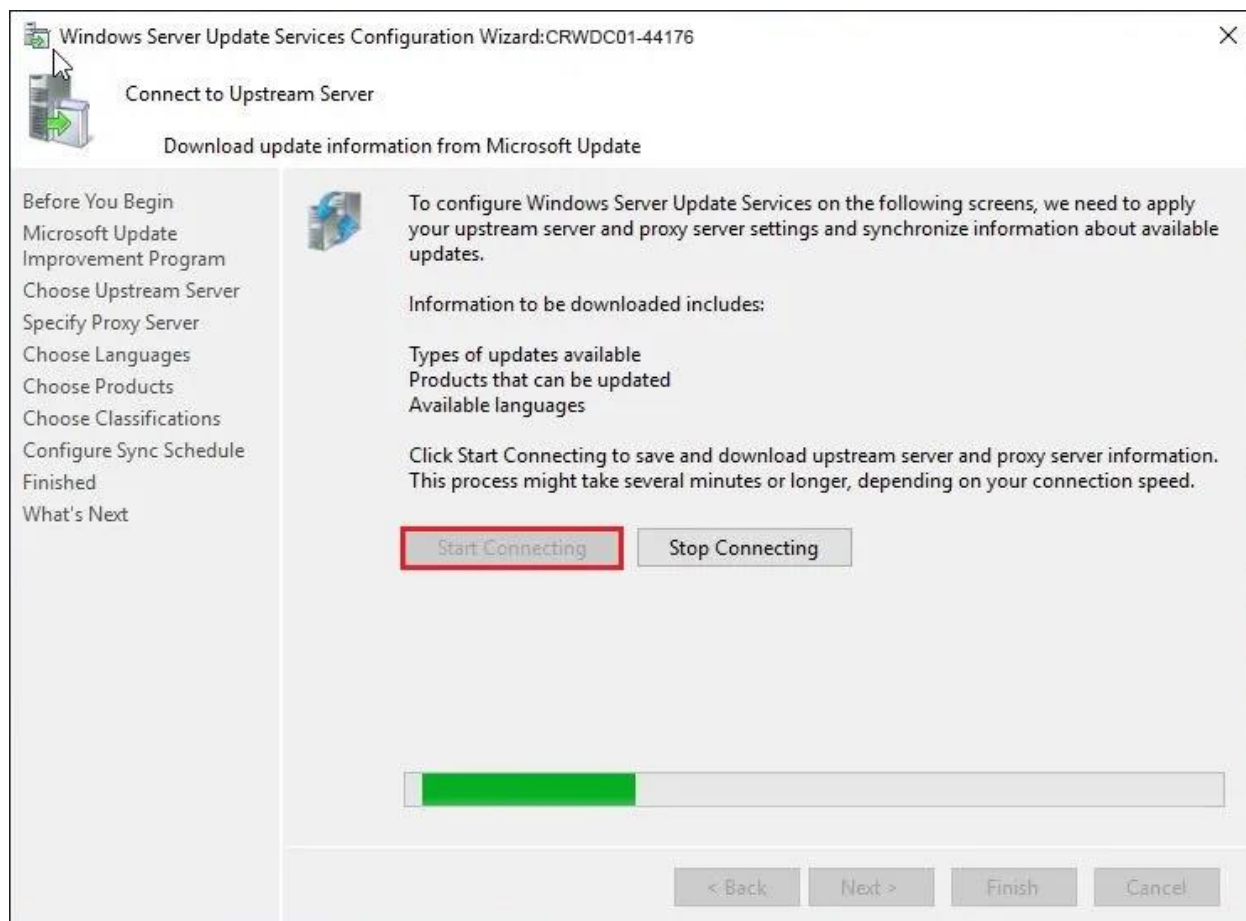
Server name:

Port number:

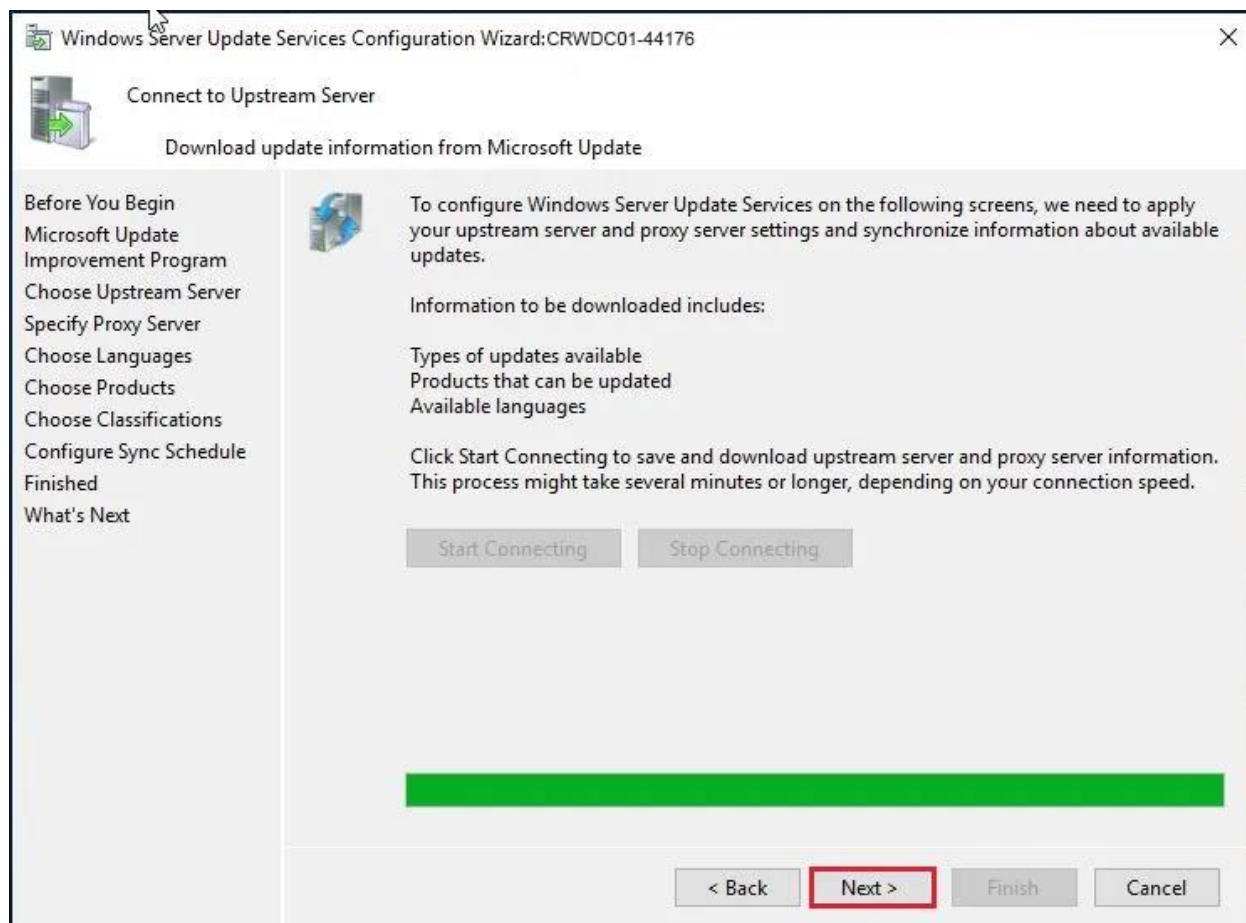
☐ Use SSL when synchronizing update information
If using SSL, ensure that the upstream WSUS server is also configured to support SSL.

☐ This is a replica of the upstream server
A replica server mirrors update approvals, settings, computers and groups from its parent. Updates can be approved only on the upstream server.

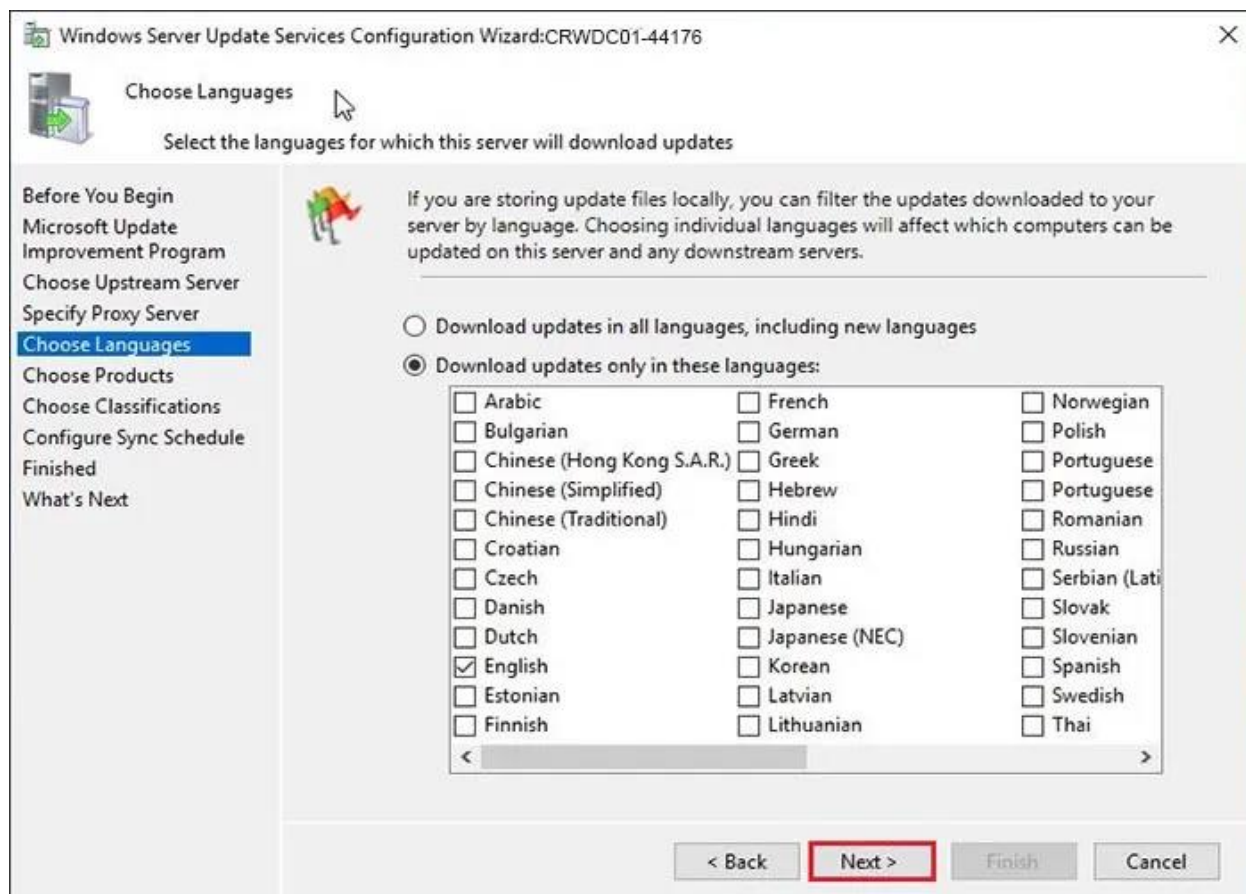
< Back **Next >** Finish Cancel



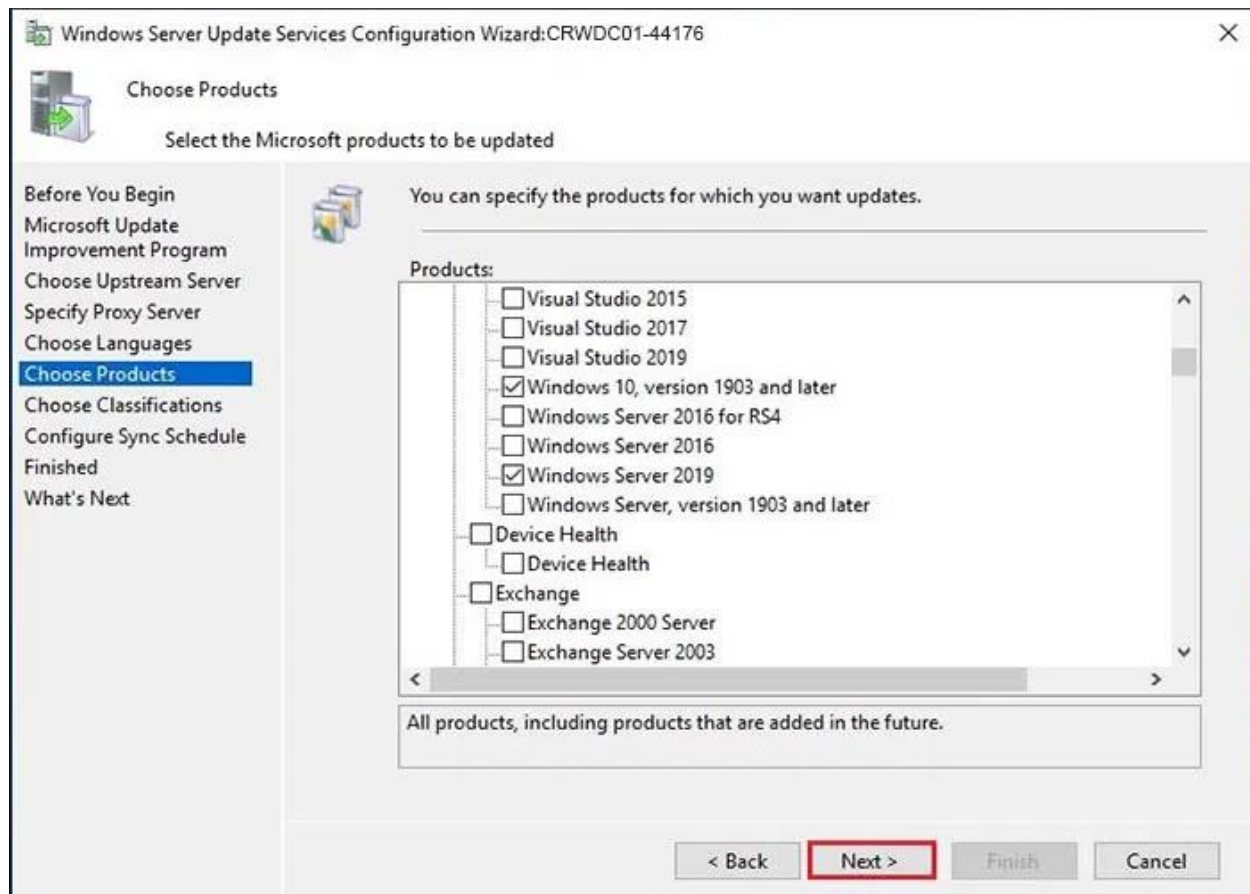
Now we start connection to the Upstream Server.



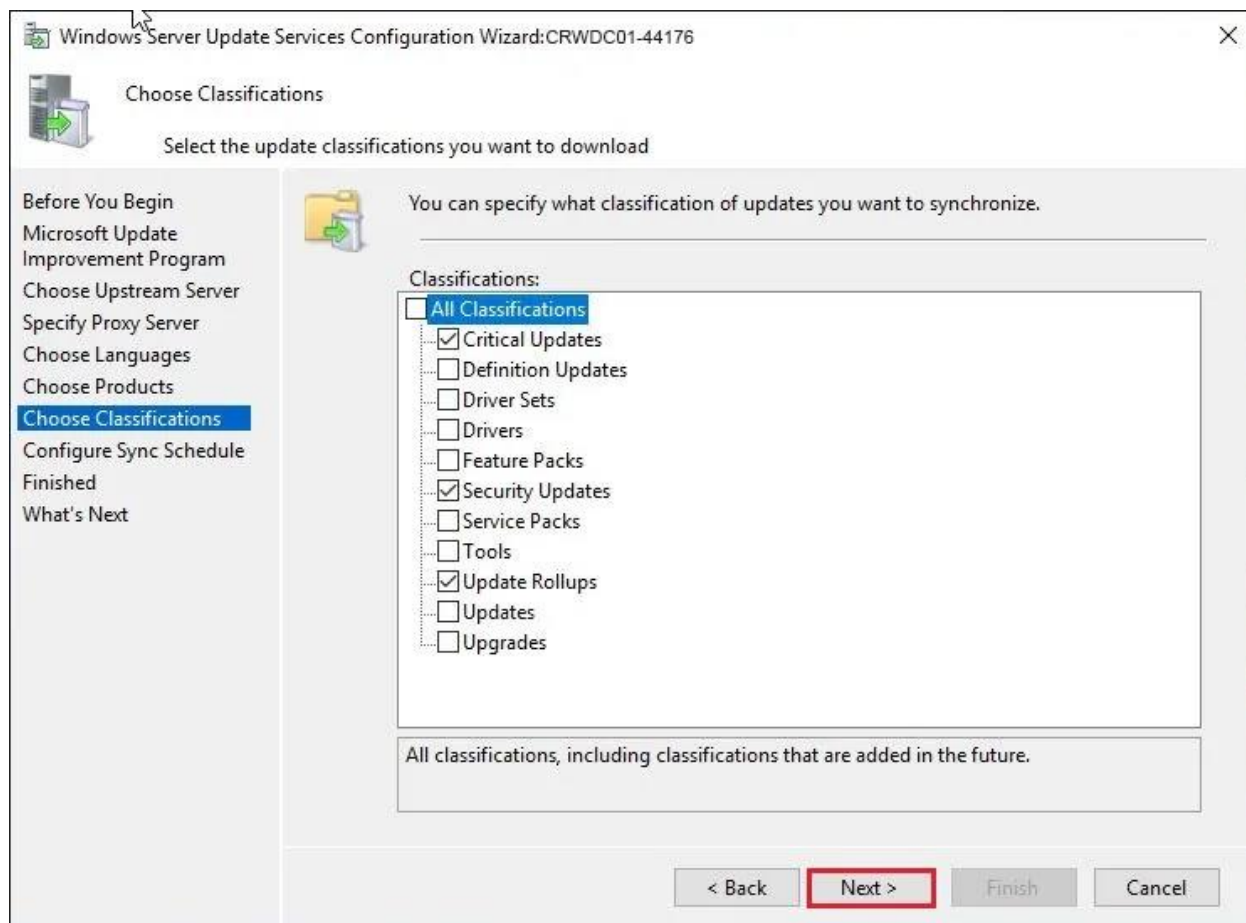
After successful connection to the upstream server, we click Next.



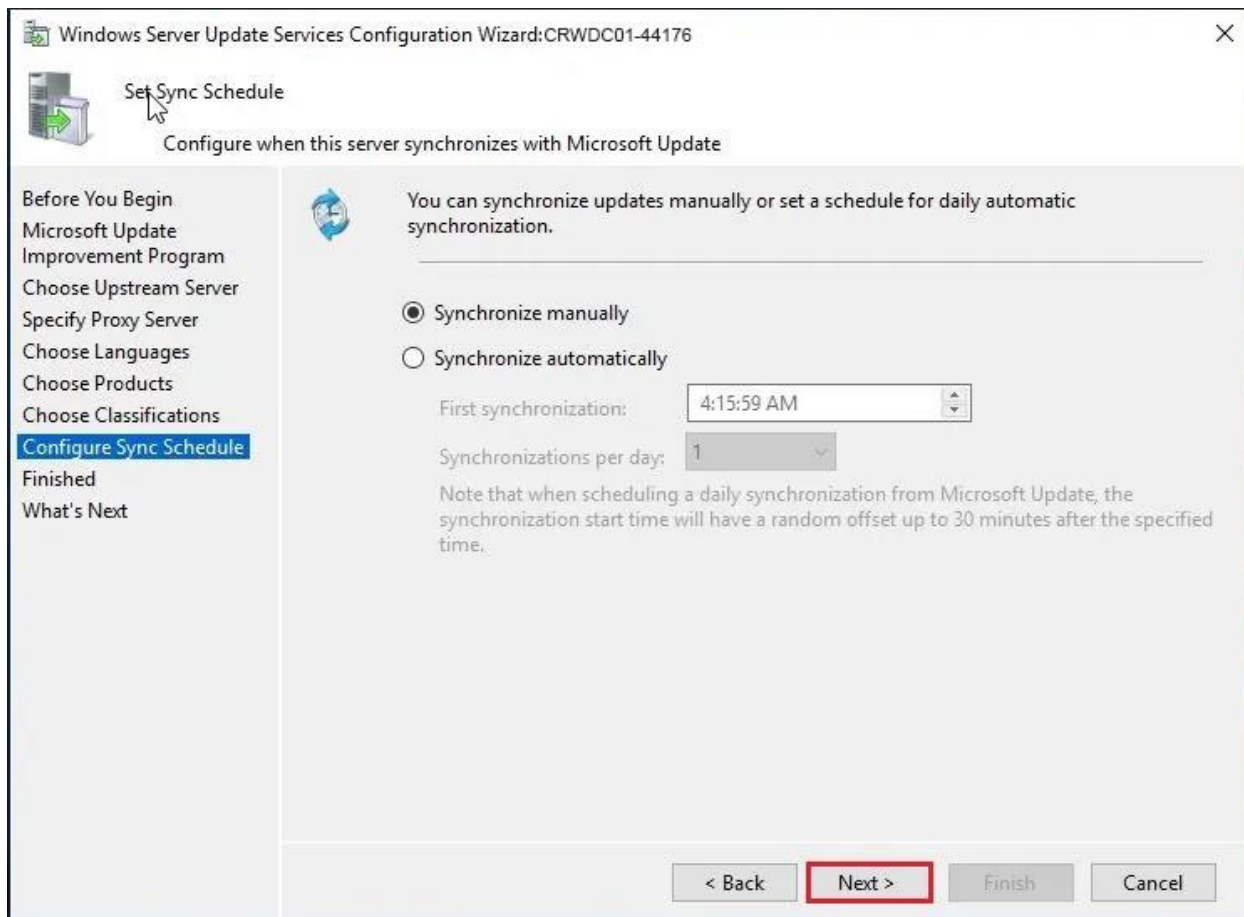
Now we select English language for as the sole update packages language, and then we click Next.



Now we select the required features to be managed by the WSUS server and then we click Next.



Now we select the classifications to be synchronized by the WSUS server and then we click Next.



Windows Server Update Services Configuration Wizard: CRWDC01-44176

Set Sync Schedule

Configure when this server synchronizes with Microsoft Update

Before You Begin
Microsoft Update Improvement Program
Choose Upstream Server
Specify Proxy Server
Choose Languages
Choose Products
Choose Classifications
Configure Sync Schedule
Finished
What's Next

You can synchronize updates manually or set a schedule for daily automatic synchronization.

☒ Synchronize manually
☐ Synchronize automatically

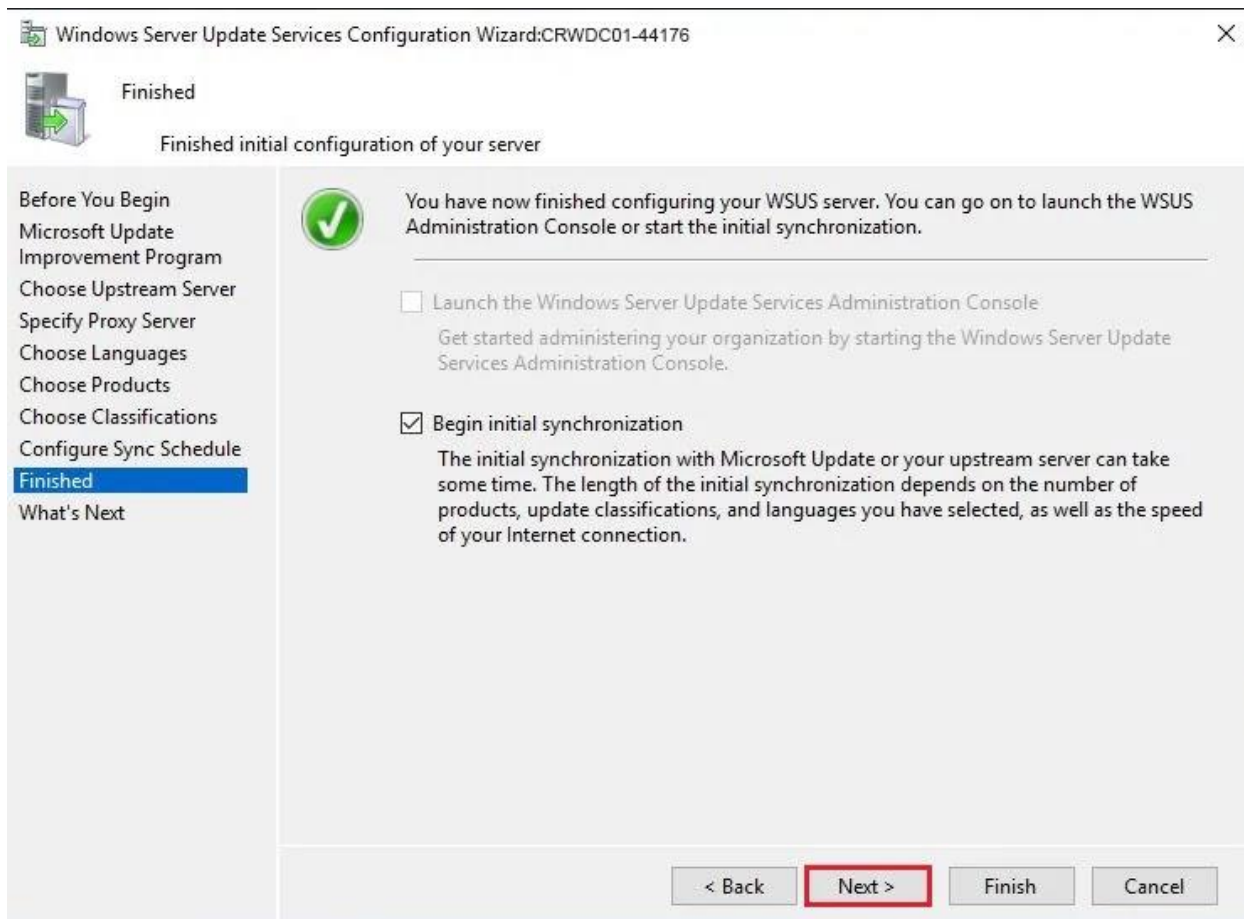
First synchronization: 4:15:59 AM

Synchronizations per day: 1

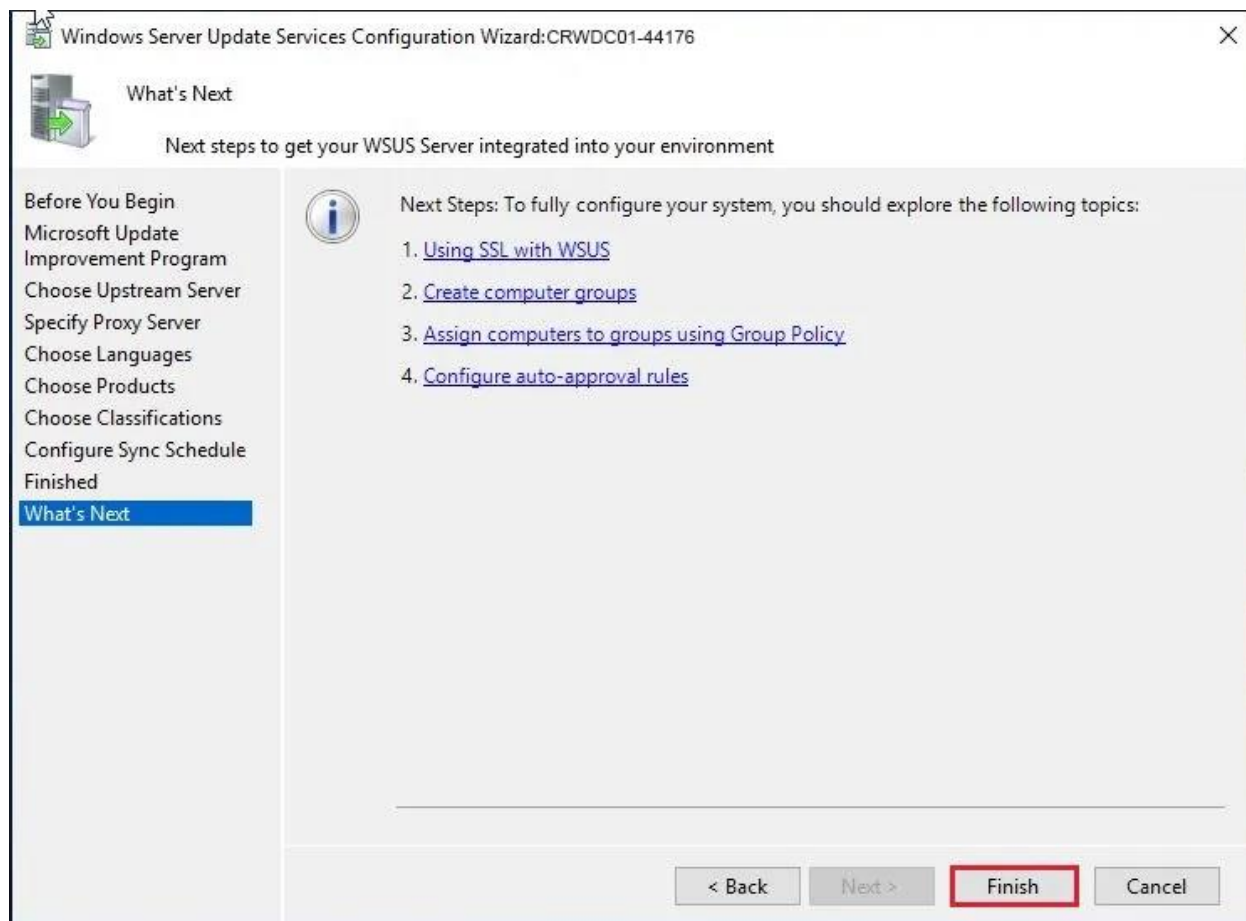
Note that when scheduling a daily synchronization from Microsoft Update, the synchronization start time will have a random offset up to 30 minutes after the specified time.

< Back **Next >** Finish Cancel

Now we select manual synchronization for the updates which means we will set update schedule for each update separately later, then we click Next.



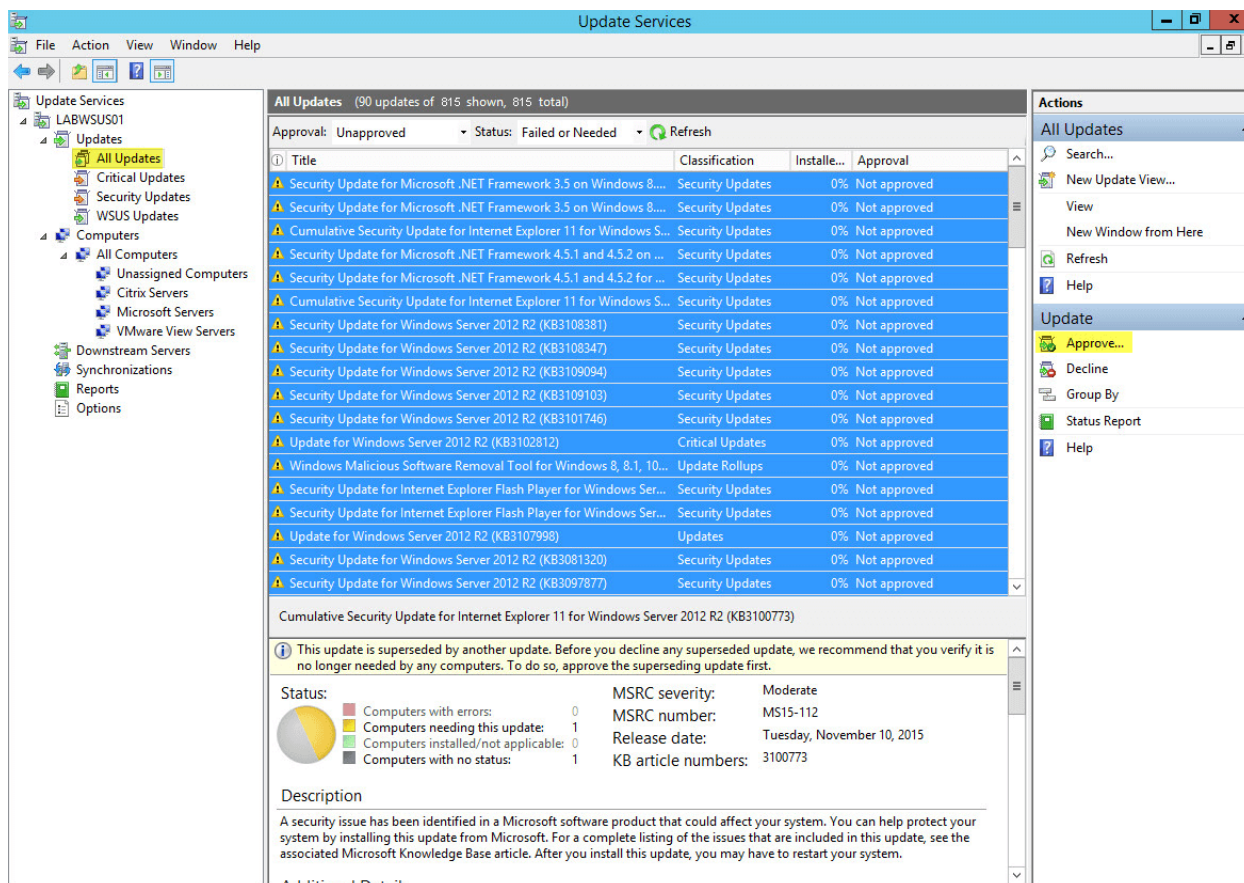
Now the configuration features have been selected and we initialize, then click Next to start tiitialisation of the selected features.



Now we finish the WSUS server configuration wizard after successful initialization against the set configuration.

Approve WSUS Update Configuration:

Now after successfully setting the required configuration we then need to also approve this configuration so that WSUS server can access the set configuration and work accordingly, as shown below:



The screenshot shows the WSUS Update Services console. The left pane shows the tree view with 'Update Services' expanded, and 'All Updates' selected. The main pane displays a list of updates with columns: Title, Classification, Install... Approval. The right pane shows the 'Actions' menu with 'Approve...' highlighted.

Title	Classification	Install...	Approval
Security Update for Microsoft .NET Framework 3.5 on Windows 8...	Security Updates	0%	Not approved
Security Update for Microsoft .NET Framework 3.5 on Windows 8...	Security Updates	0%	Not approved
Cumulative Security Update for Internet Explorer 11 for Windows S...	Security Updates	0%	Not approved
Security Update for Microsoft .NET Framework 4.5.1 and 4.5.2 on ...	Security Updates	0%	Not approved
Security Update for Microsoft .NET Framework 4.5.1 and 4.5.2 for ...	Security Updates	0%	Not approved
Cumulative Security Update for Internet Explorer 11 for Windows S...	Security Updates	0%	Not approved
Security Update for Windows Server 2012 R2 (KB3108381)	Security Updates	0%	Not approved
Security Update for Windows Server 2012 R2 (KB3108347)	Security Updates	0%	Not approved
Security Update for Windows Server 2012 R2 (KB3109094)	Security Updates	0%	Not approved
Security Update for Windows Server 2012 R2 (KB3109103)	Security Updates	0%	Not approved
Security Update for Windows Server 2012 R2 (KB3101746)	Security Updates	0%	Not approved
Update for Windows Server 2012 R2 (KB3102812)	Critical Updates	0%	Not approved
Windows Malicious Software Removal Tool for Windows 8, 8.1, 10...	Update Rollups	0%	Not approved
Security Update for Internet Explorer Flash Player for Windows Ser...	Security Updates	0%	Not approved
Security Update for Internet Explorer Flash Player for Windows Ser...	Security Updates	0%	Not approved
Update for Windows Server 2012 R2 (KB3107998)	Updates	0%	Not approved
Security Update for Windows Server 2012 R2 (KB3081320)	Security Updates	0%	Not approved
Security Update for Windows Server 2012 R2 (KB3097877)	Security Updates	0%	Not approved

Cumulative Security Update for Internet Explorer 11 for Windows Server 2012 R2 (KB3100773)

This update is superseded by another update. Before you decline any superseded update, we recommend that you verify it is no longer needed by any computers. To do so, approve the superseding update first.

Status:

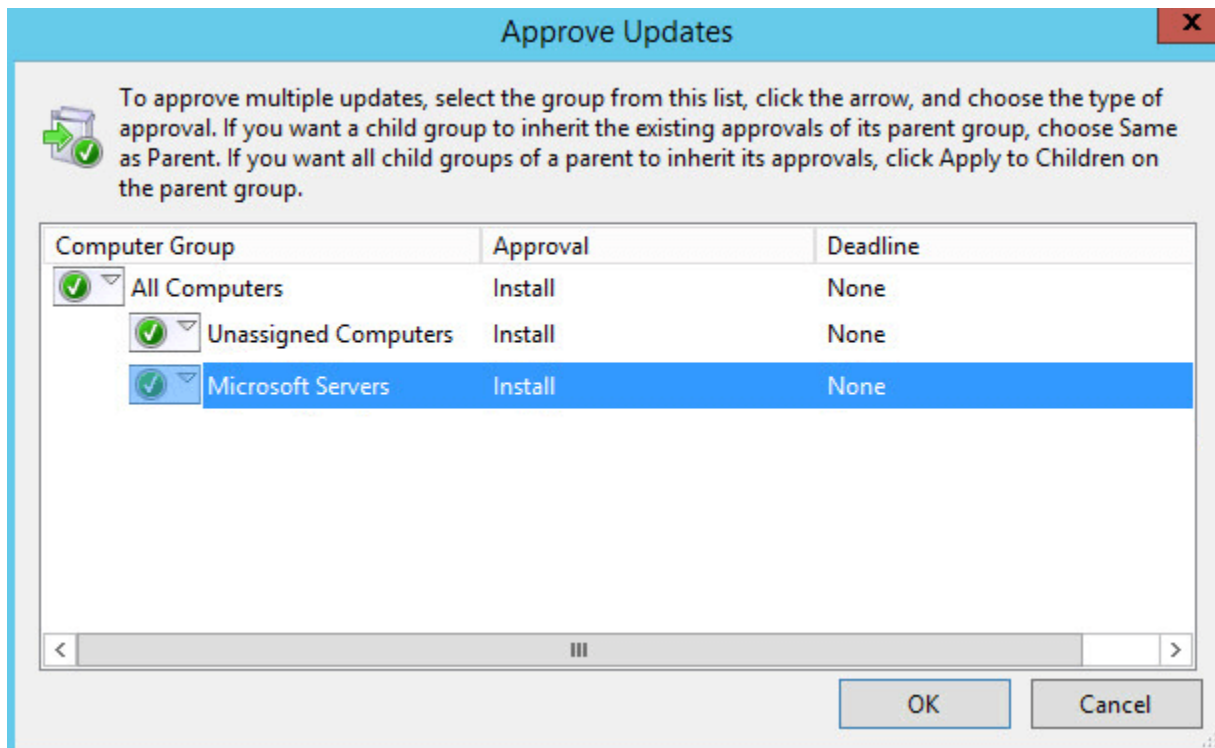
- Computers with errors: 0
- Computers needing this update: 1
- Computers installed/not applicable: 0
- Computers with no status: 1

MSRC severity: Moderate
MSRC number: MS15-112
Release date: Tuesday, November 10, 2015
KB article numbers: 3100773

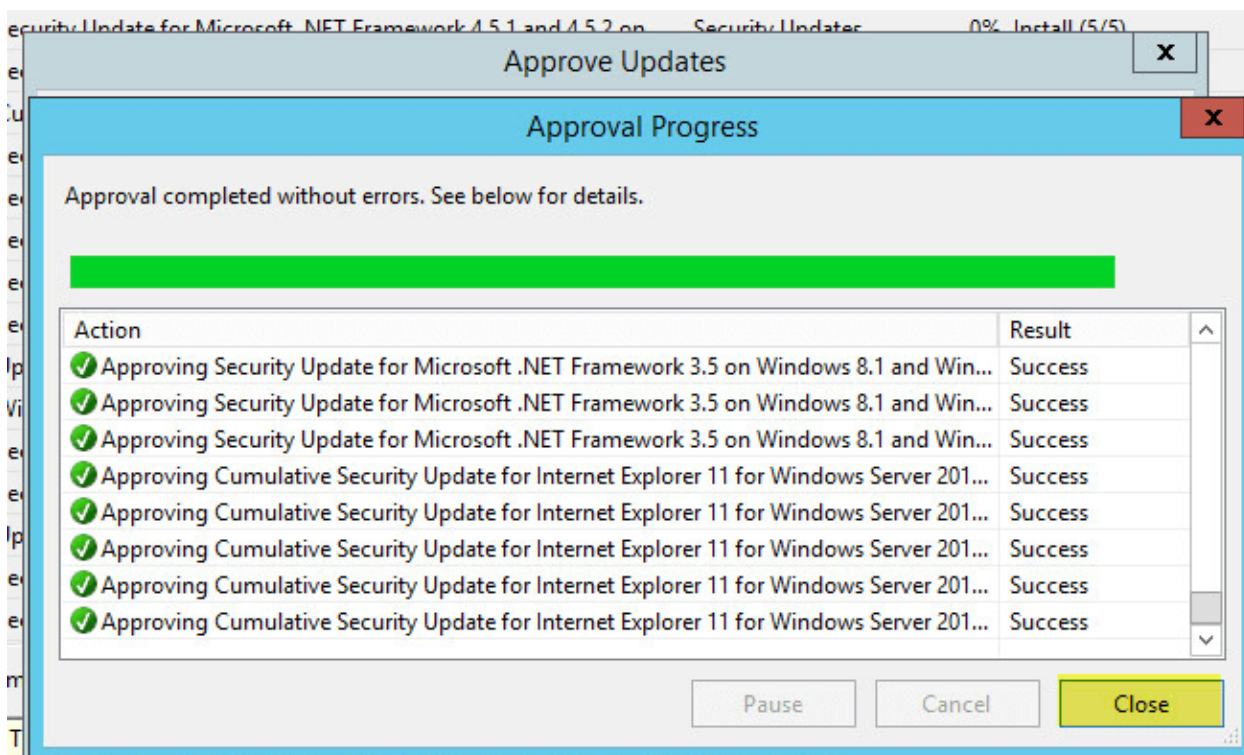
Description

A security issue has been identified in a Microsoft software product that could affect your system. You can help protect your system by installing this update from Microsoft. For a complete listing of the issues that are included in this update, see the associated Microsoft Knowledge Base article. After you install this update, you may have to restart your system.

We open the update service. Here we press the shortcut key “*Ctrl + A*” to select all the configured updates then press Approve on the right hand navigation pane, to approve the configured updates.



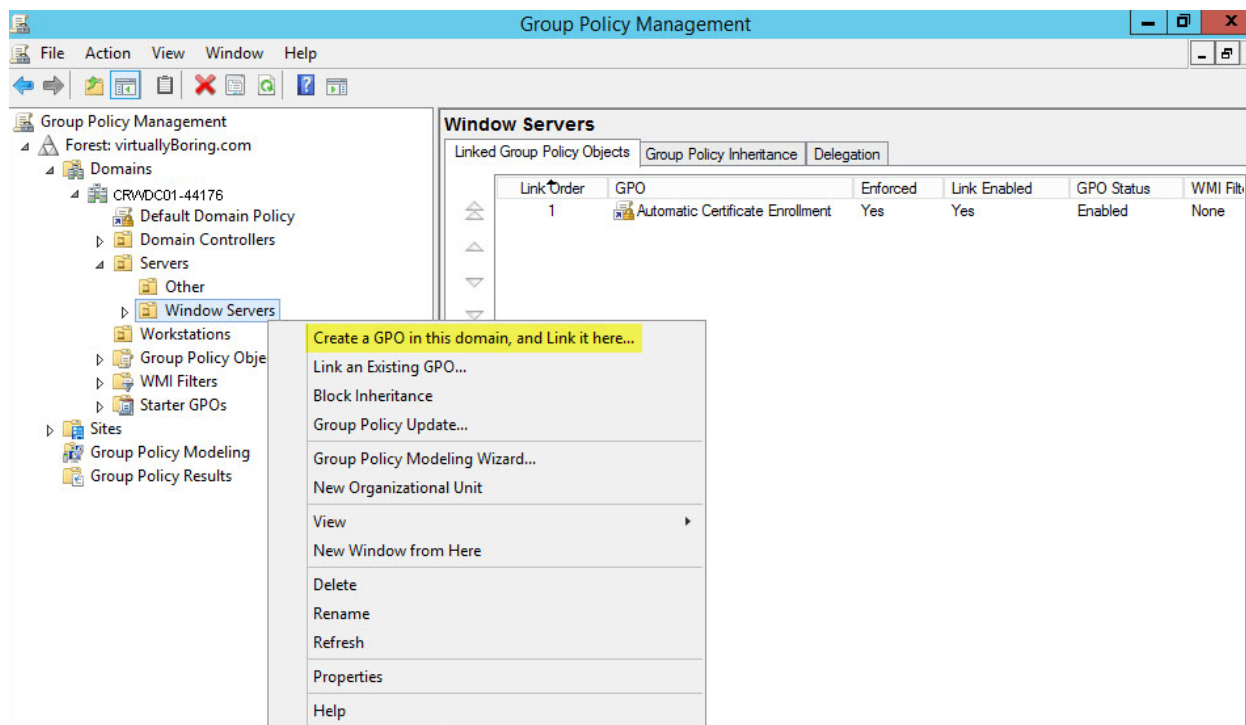
Now a dialogue will appear which will ask confirmation to approved the updates. Here we click OK.



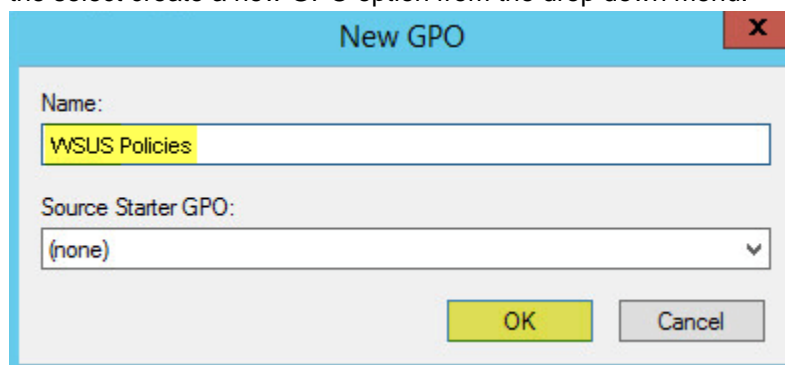
Now it displays a success dialogue box for the approval of updates. Then we click Close.

Creating WSUS Group Policy:

Now we create a GPO for the WSUS server to allow users to access the WSUS features, as shown below:

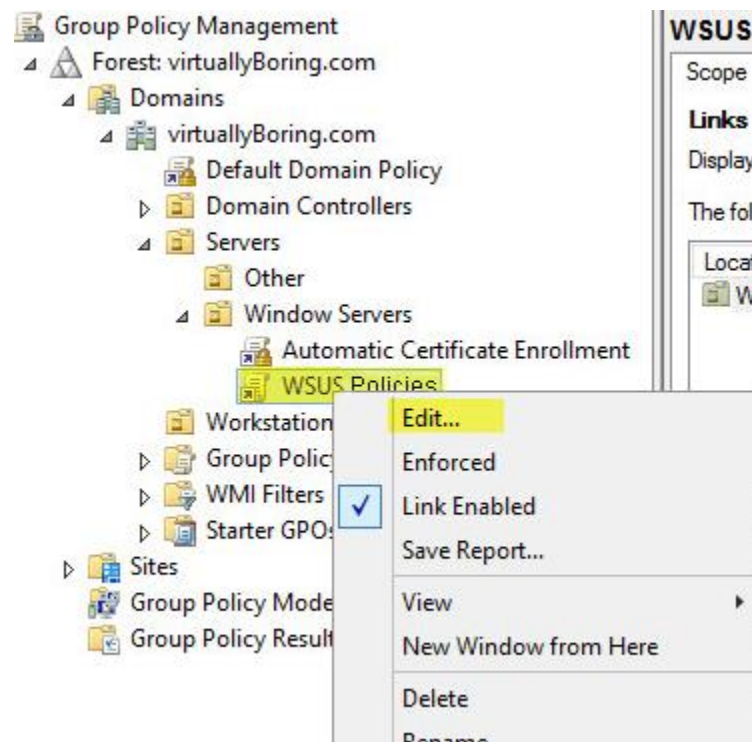


Firstly open Group Policy Management. Then right-click Windows server in the WSUS deployed server, the select create a new GPO option from the drop down menu.

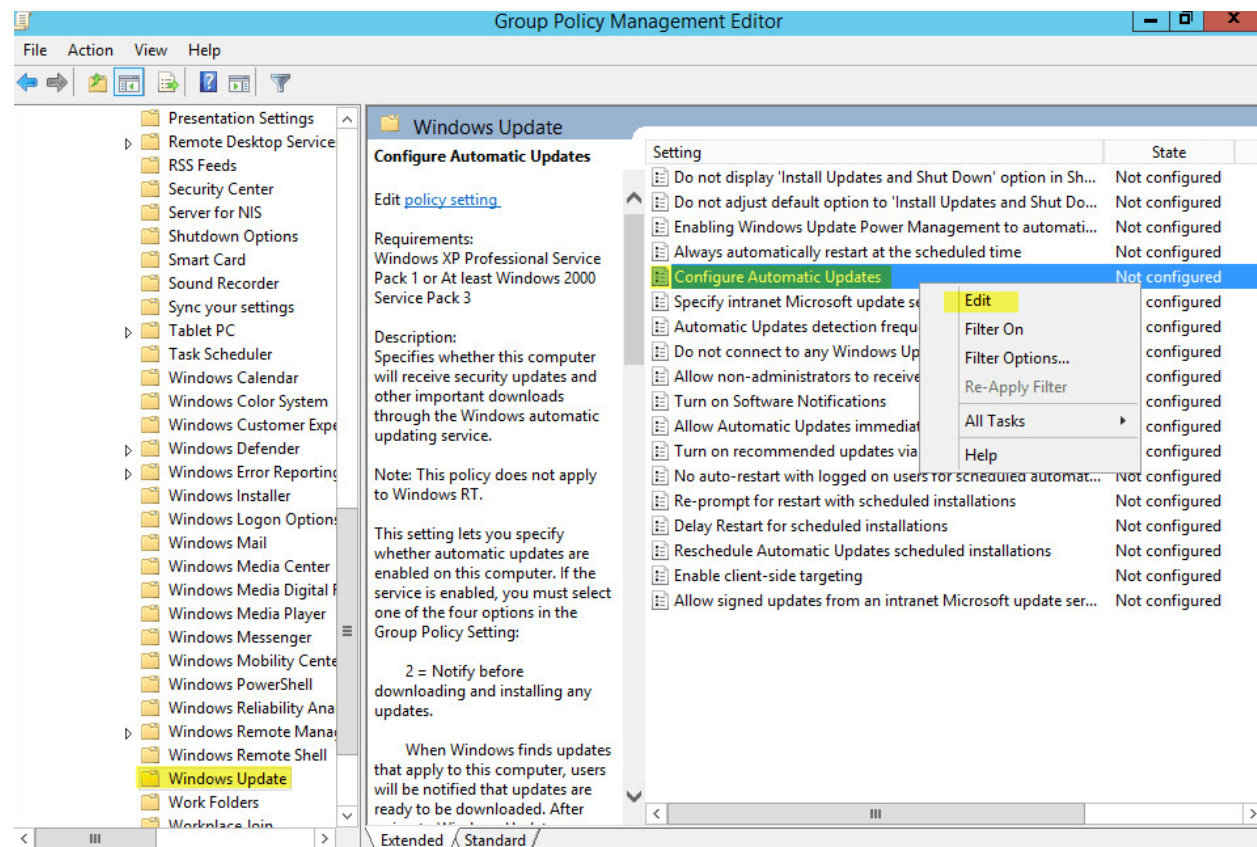


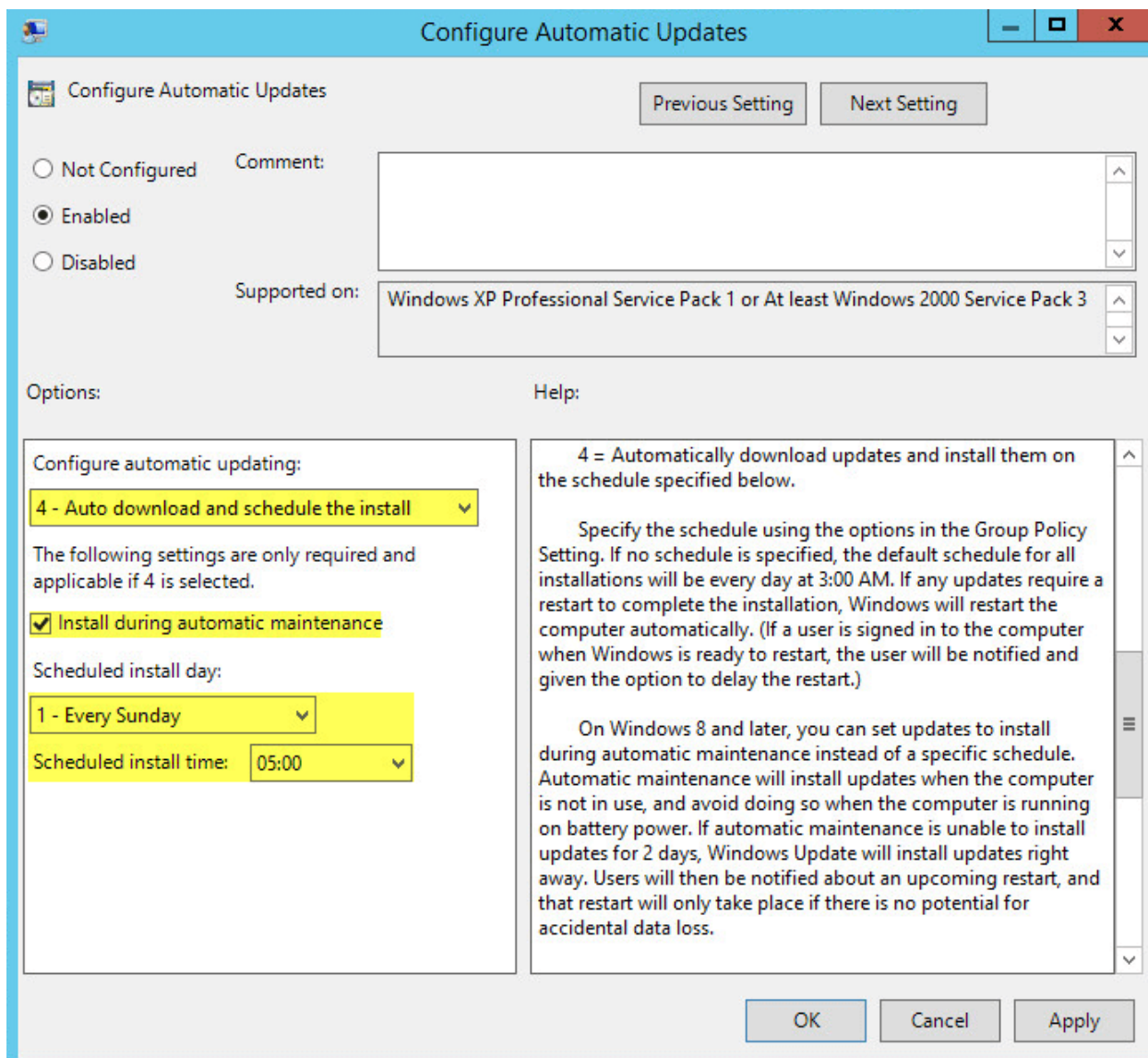
We name the new GPO as “WSUS Policies” and click OK.

ITSA 2005 Practice-based/Lab-based Exercises



Now we edit the GPO settings by selecting the Edit option from the drop down menu.
Now we will configure various group policy settings as below:





Configure Automatic Updates

Previous Setting Next Setting

☐ Not Configured Comment:
☒ Enabled
☐ Disabled

Supported on: Windows XP Professional Service Pack 1 or At least Windows 2000 Service Pack 3

Options: Help:

Configure automatic updating:
4 - Auto download and schedule the install

The following settings are only required and applicable if 4 is selected.

☒ **Install during automatic maintenance**

Scheduled install day:
1 - Every Sunday

Scheduled install time: **05:00**

4 = Automatically download updates and install them on the schedule specified below.

Specify the schedule using the options in the Group Policy Setting. If no schedule is specified, the default schedule for all installations will be every day at 3:00 AM. If any updates require a restart to complete the installation, Windows will restart the computer automatically. (If a user is signed in to the computer when Windows is ready to restart, the user will be notified and given the option to delay the restart.)

On Windows 8 and later, you can set updates to install during automatic maintenance instead of a specific schedule. Automatic maintenance will install updates when the computer is not in use, and avoid doing so when the computer is running on battery power. If automatic maintenance is unable to install updates for 2 days, Windows Update will install updates right away. Users will then be notified about an upcoming restart, and that restart will only take place if there is no potential for accidental data loss.

OK Cancel Apply

Always automatically restart at the scheduled time	Not configured
Configure Automatic Updates	Enabled
Specify intranet Microsoft update service location	Not configured
Automatic Updates detection frequency	Edit
Do not connect to any Windows Update Internet	Filter On
Allow non-administrators to receive update notifi	Filter Options...
Turn on Software Notifications	Re-Apply Filter
Allow Automatic Updates immediate installation	All Tasks
Turn on recommended updates via Automatic Up	Help
No auto-restart with logged on users for schedule	
Re-prompt for restart with scheduled installations	

Specify intranet Microsoft update service location

Specify intranet Microsoft update service location Previous Setting Next Setting

☐ Not Configured Comment:
☒ **Enabled**
☐ Disabled

Supported on: At least Windows XP Professional Service Pack 1 or Windows 2000 Service Pack 3, excluding Windows RT

Options: Help:

Set the intranet update service for detecting updates:

<https://CRWDC01-44176:8530>

Set the intranet statistics server:

<https://CRWDC01-44176:8530>

(example: <http://IntranetUpd01>)

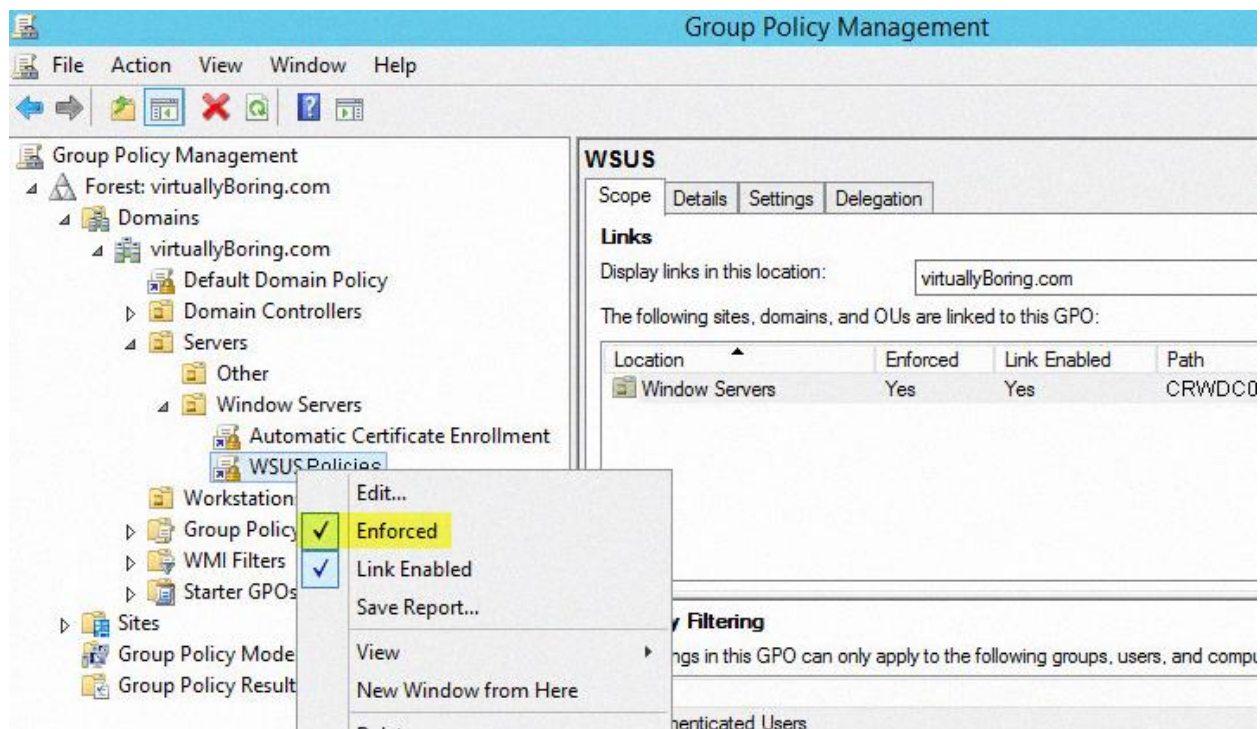
Specifies an intranet server to host updates from Microsoft Update. You can then use this update service to automatically update computers on your network.

This setting lets you specify a server on your network to function as an internal update service. The Automatic Updates client will search this service for updates that apply to the computers on your network.

To use this setting, you must set two servername values: the server from which the Automatic Updates client detects and downloads updates, and the server to which updated workstations upload statistics. You can set both values to be the same server.

If the status is set to Enabled, the Automatic Updates client connects to the specified intranet Microsoft update service, instead of Windows Update, to search for and download updates. Enabling this setting means that end users in your organization don't have to go through a firewall to get updates, and it gives you the opportunity to test updates before deploying

OK Cancel Apply



After setting the required policies we select Enforce option from the drop down menu to implement the policies.