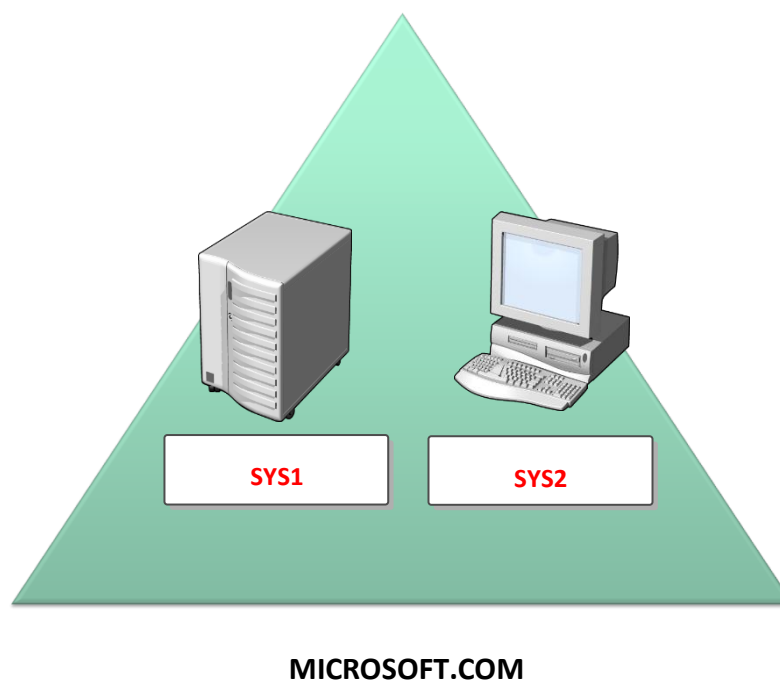


INTERNET INFORMATION SERVICES (IIS) – WEB & FTP SERVER

Prerequisites:

Before working on this lab, you must have

1. A computer running windows 2012 server or Domain Controller.
2. A computer running windows 2012 server or Windows 7.



SYS1

Domain Controller/DNS/Web Server

IP Address	10.0.0.1
Subnet Mask	255.0.0.0
Preferred DNS	10.0.0.1

SYS2

Member Server / Client

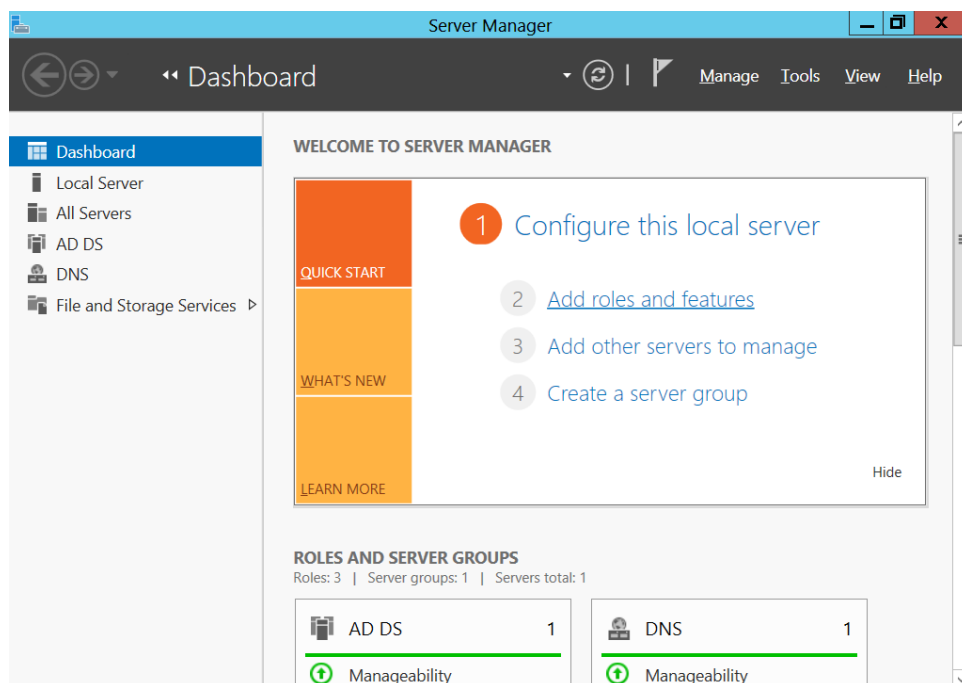
IP Address	10.0.0.2
Subnet Mask	255.0.0.0
Preferred DNS	10.0.0.1

Lab – 1: Installing Internet Information Services - Web & FTP Server**SYS1- CONFIGURATION**

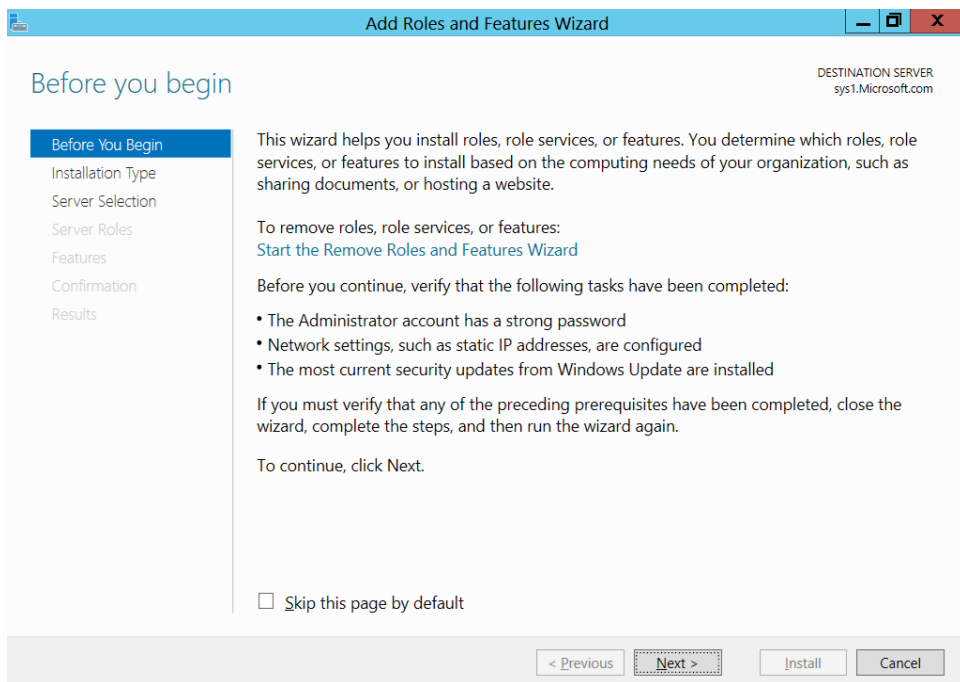
1. Click **Server Manager**.



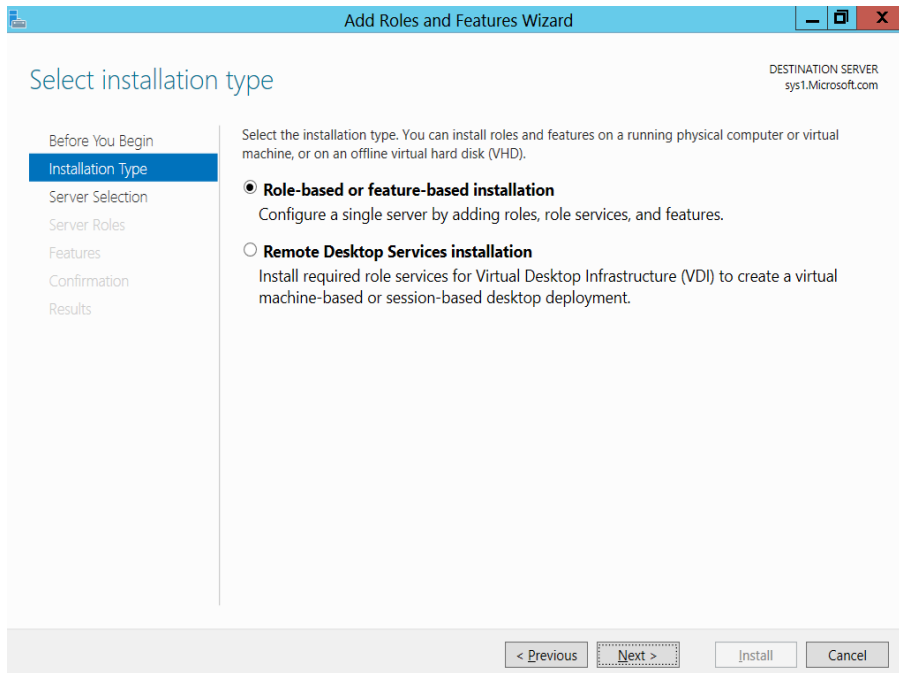
2. In the Server Manager Dashboard → select **Add roles and features**.



3. In Before you begin page, click **Next**.



4. Select **Role-based or feature-based installation**, click **Next**.



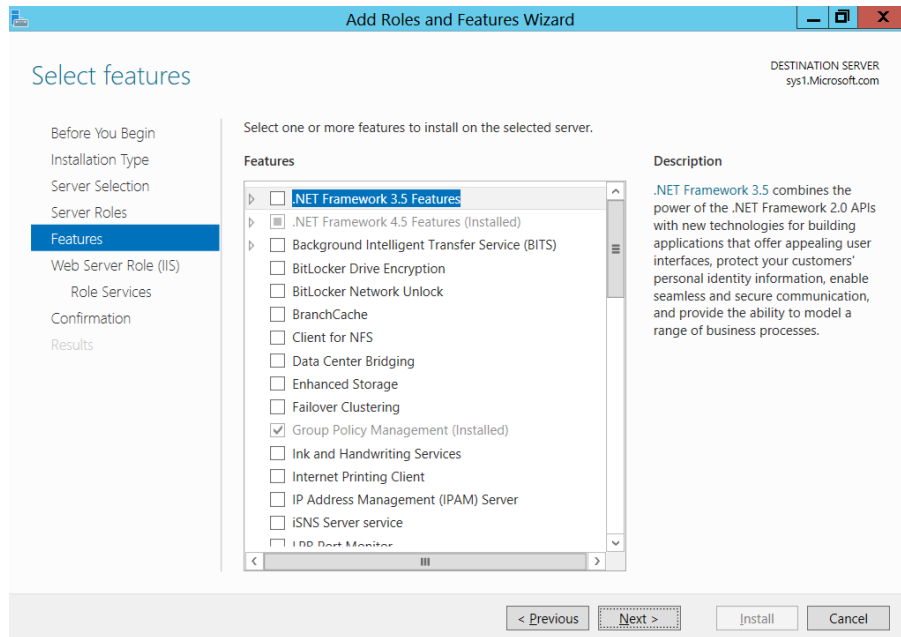
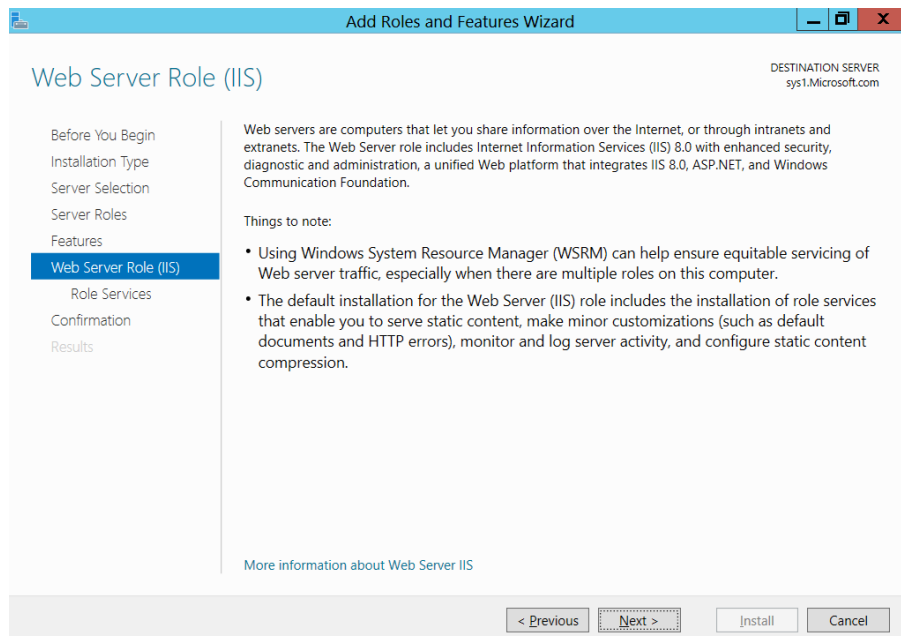
5. Select a server (**sys1.Microsoft.com**) from the server pool and click **Next**.

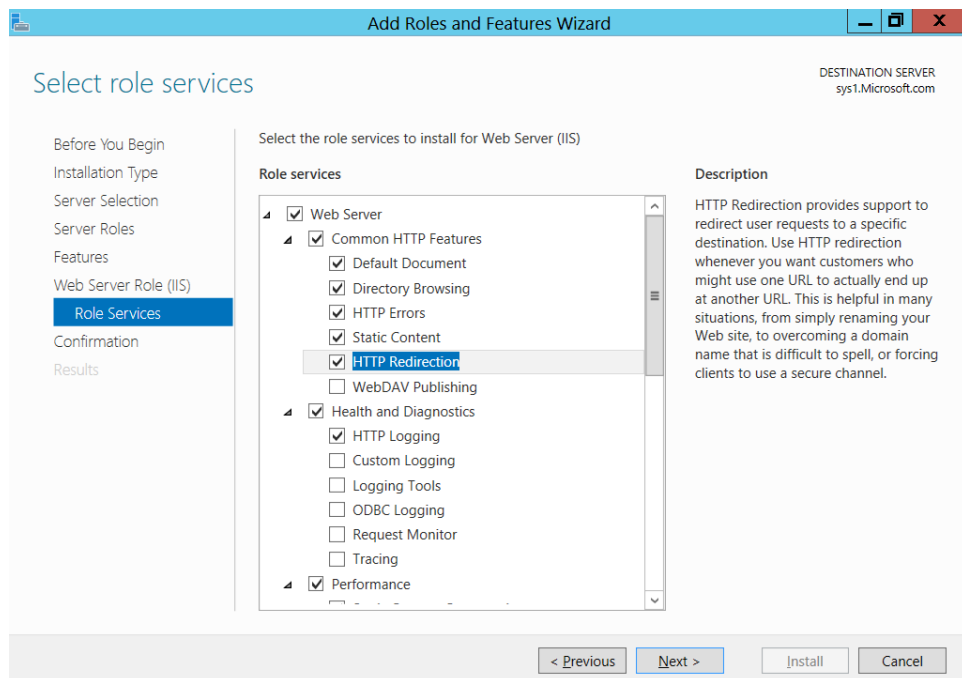
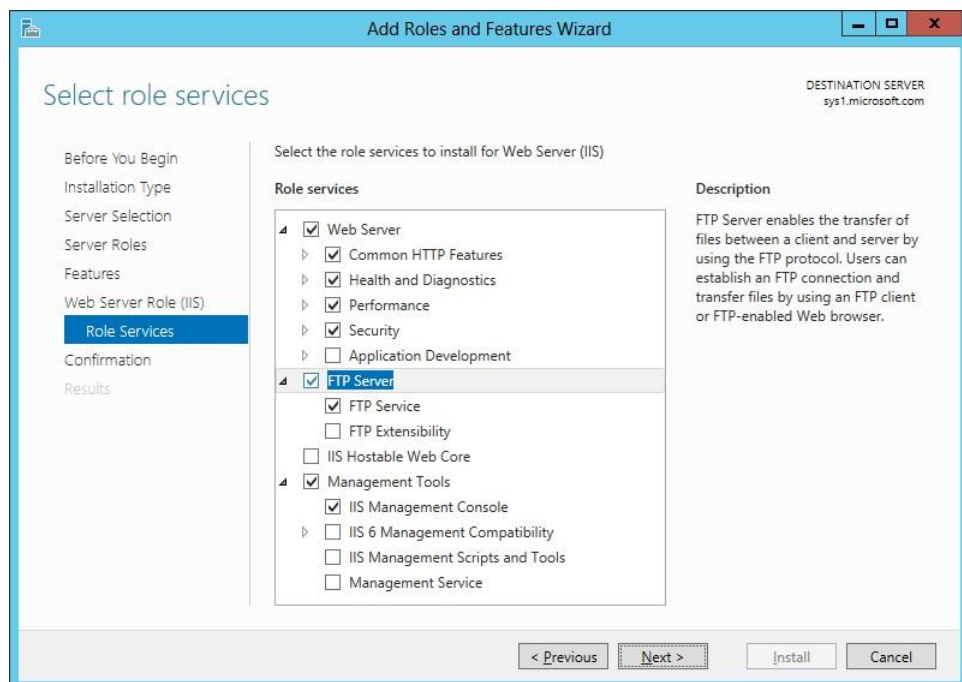
The screenshot shows the 'Add Roles and Features Wizard' window. The title bar says 'Add Roles and Features Wizard'. The main heading is 'Select destination server'. On the right, it says 'DESTINATION SERVER sys1.Microsoft.com'. On the left, there is a navigation pane with 'Before You Begin', 'Installation Type', 'Server Selection' (highlighted), 'Server Roles', 'Features', 'Confirmation', and 'Results'. The main area has the instruction 'Select a server or a virtual hard disk on which to install roles and features.' with two radio buttons: 'Select a server from the server pool' (selected) and 'Select a virtual hard disk'. Below this is a 'Server Pool' section with a 'Filter:' text box and a table. The table has columns 'Name', 'IP Address', and 'Operating System'. It contains one row: 'sys1.Microsoft.com', '10.0.0.1', and 'Microsoft Windows Server 2012 Standard Evaluation'. Below the table, it says '1 Computer(s) found' and a paragraph: 'This page shows servers that are running Windows Server 2012, 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.' At the bottom, there are buttons: '< Previous', 'Next >' (highlighted), 'Install', and 'Cancel'.

6. In select server roles, check the box **Web Server** and click **Next**.

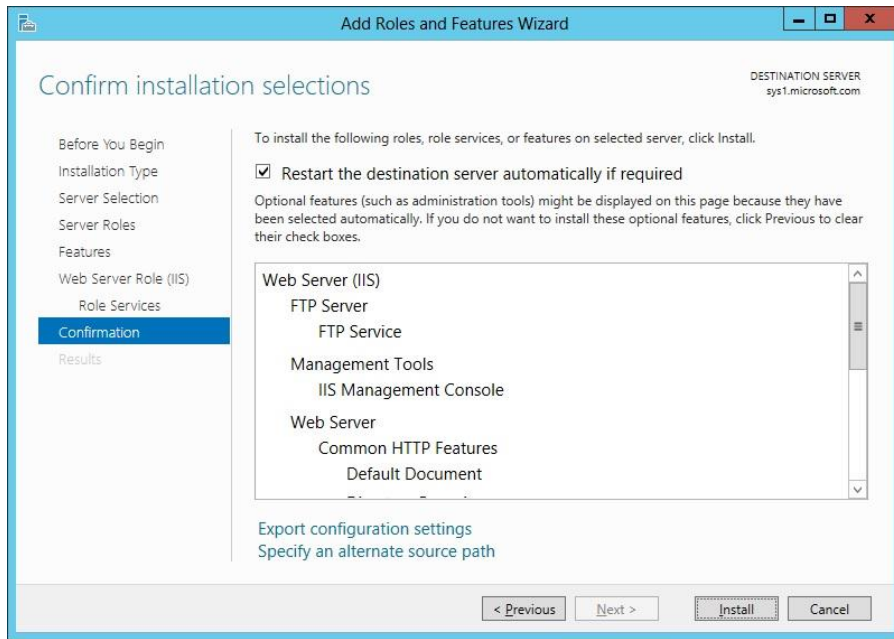
The screenshot shows the 'Add Roles and Features Wizard' window. The title bar says 'Add Roles and Features Wizard'. The main heading is 'Select server roles'. On the right, it says 'DESTINATION SERVER sys1.Microsoft.com'. On the left, there is a navigation pane with 'Before You Begin', 'Installation Type', 'Server Selection', 'Server Roles' (highlighted), 'Features', 'Web Server Role (IIS)', 'Role Services', 'Confirmation', and 'Results'. The main area has the instruction 'Select one or more roles to install on the selected server.' Below this is a 'Roles' list with checkboxes. The roles are: 'Active Directory Lightweight Directory Services', 'Active Directory Rights Management Services', 'Application Server', 'DHCP Server', 'DNS Server (Installed)' (checked), 'Fax Server', 'File And Storage Services (Installed)' (checked), 'Hyper-V', 'Network Policy and Access Services', 'Print and Document Services', 'Remote Access', 'Remote Desktop Services', 'Volume Activation Services', 'Web Server (IIS)' (checked), 'Windows Deployment Services', and 'Windows Server Update Services'. To the right of the list is a 'Description' box that says 'Web Server (IIS) provides a reliable, manageable, and scalable Web application infrastructure.' At the bottom, there are buttons: '< Previous', 'Next >' (highlighted), 'Install', and 'Cancel'.

7. In Add required features for Web Server (IIS), click **Add Features**.

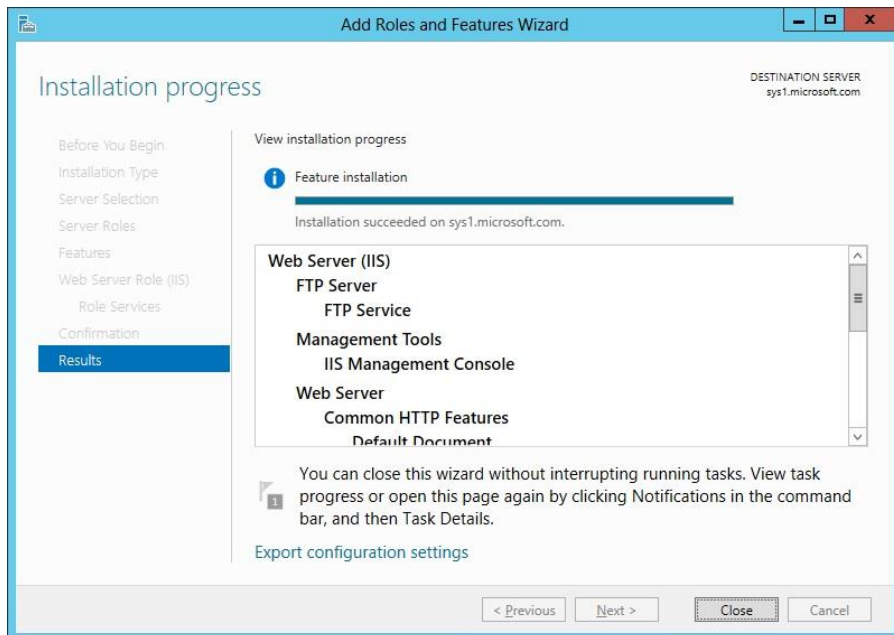
8. In select features, click **Next**.9. Click **Next**.

10. Check the box **HTTP Redirection**, under Common HTTP Features.11. Check the box **FTP Service**, under FTP Server.

12. Check Restart the destination server automatically if required and click **Install**.

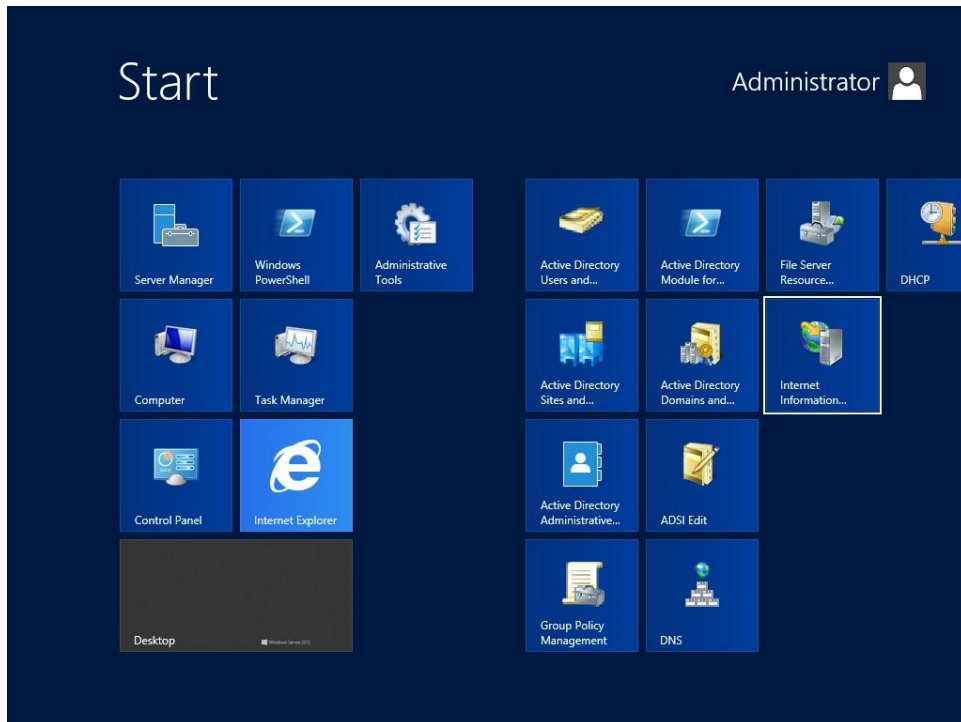


13. Select **Complete DHCP configuration**.

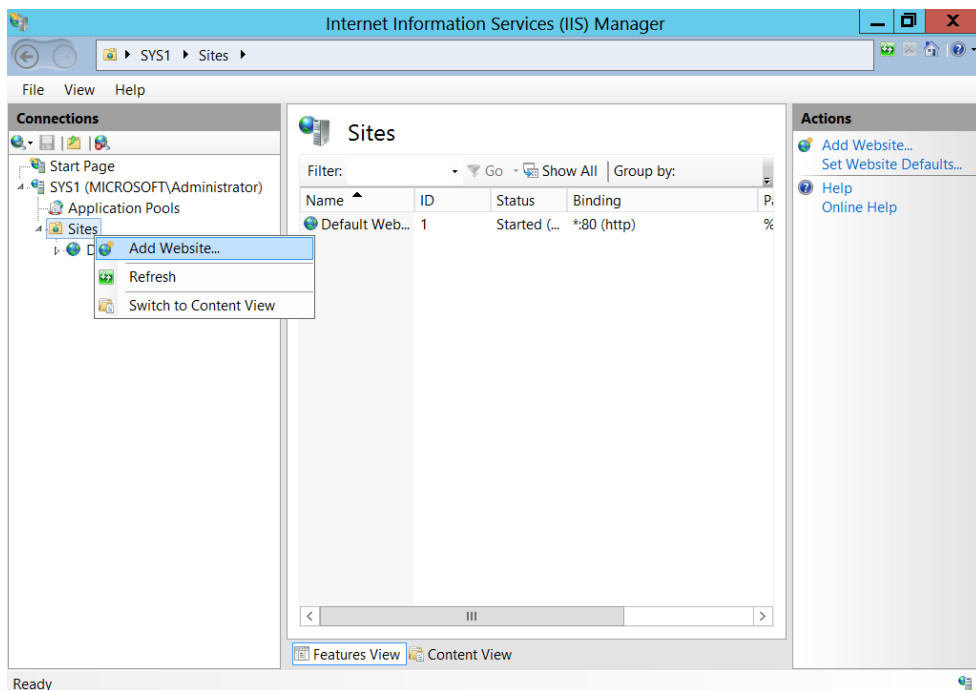


Lab – 2: Creating a Web Site

1. Go to Start, select **Internet Information Services Manager**.



2. In the left pane of the **Internet Information Services**, Expand the server → Right click on sites and select **Add Web Site**.



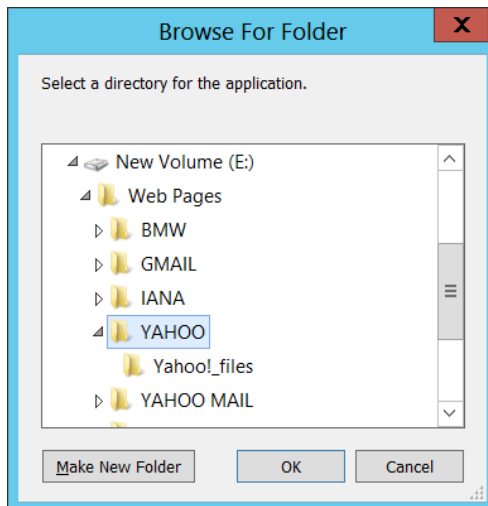
3. **Add Web Site** wizard opens → In the Site name type a **Name for the Website**
Ex:YAHOO.COM

The 'Add Website' wizard is shown with the following fields and options:

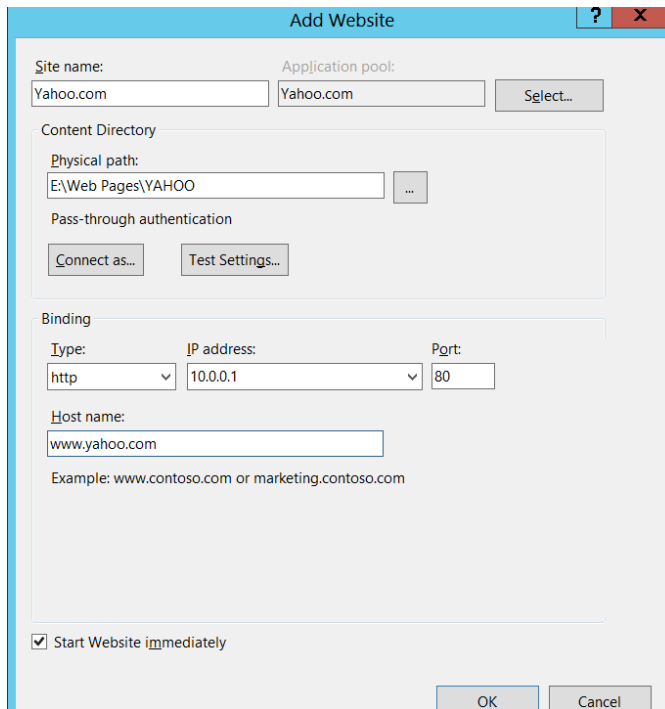
- Site name:** Yahoo.com
- Application pool:** Yahoo.com (with a 'Select...' button)
- Content Directory:**
 - Physical path:** (empty text box with a browse button '...')
 - Pass-through authentication:** (disabled)
 - Connect as...** (disabled)
 - Test Settings...** (disabled)
- Binding:**
 - Type:** http
 - IP address:** All Unassigned
 - Port:** 80
 - Host name:** (empty text box)
 - Example: www.contoso.com or marketing.contoso.com
- ☒ **Start Website immediately**

Buttons at the bottom: OK, Cancel

4. In Physical path, browse and select the location of **Home Directory (webpage)**



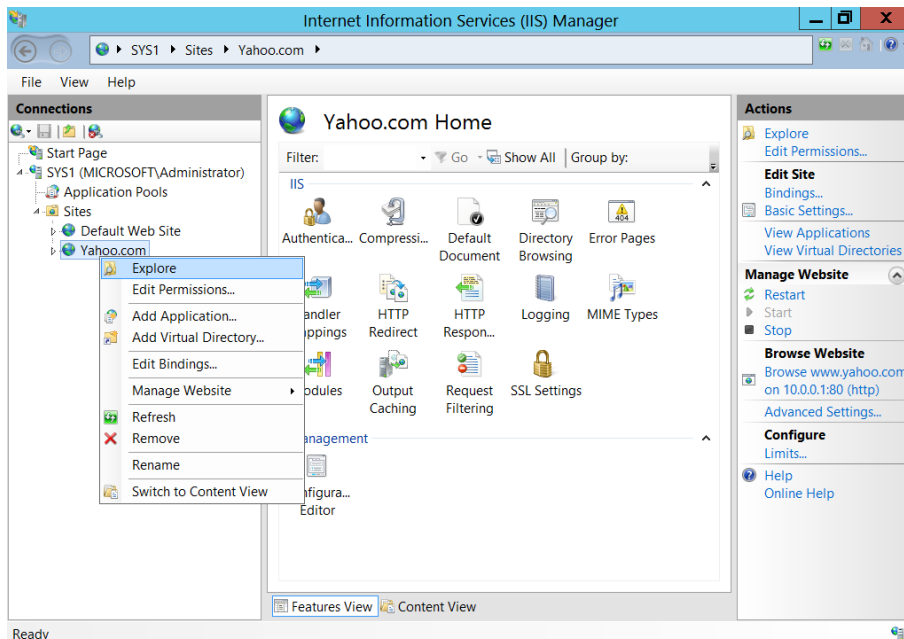
5. Select one **IP address (10.0.0.1)** from the drop-down list.
6. Specify the Host name Ex: WWW.YAHOO.COM & click **OK**.



7. **Web Site** will be successfully added.

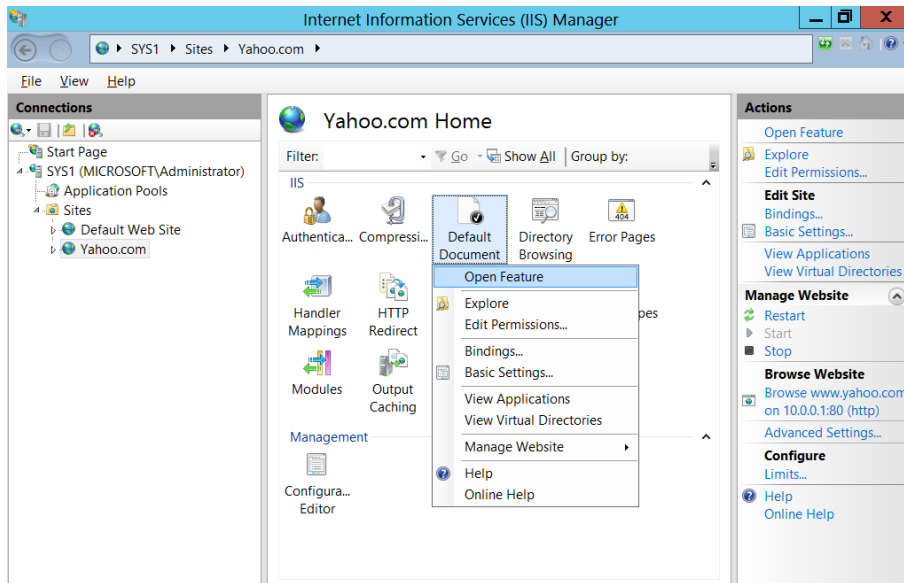
Adding the Default Document for the website

1. Open IIS → expand sites → select website → right click and select **Explore**.

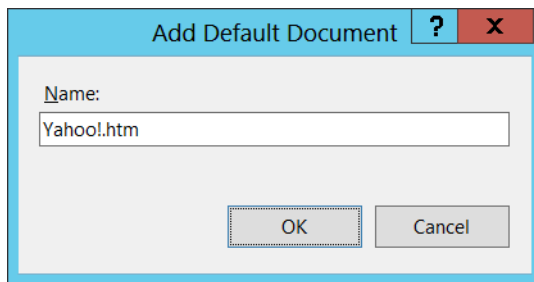


2. Select the **Webpage** → Right click & select **Rename** → Copy the webpage name

3. In IIS → expand sites → select website → Open **Default Document** feature.

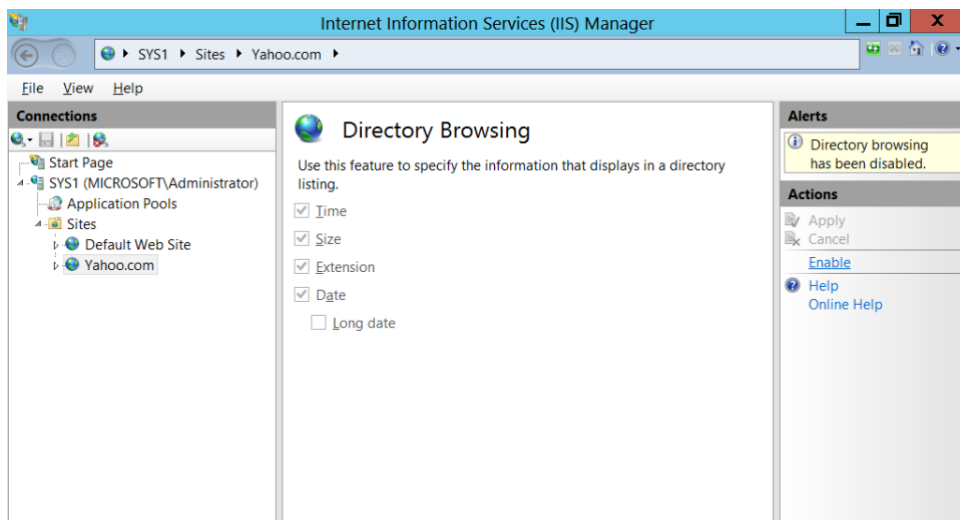


4. Click **Add**, Mention (Paste) the html file name (with Extension of file)
Ex: Yahoo!.htm → click **OK**.



Enable Directory Browsing for the web site

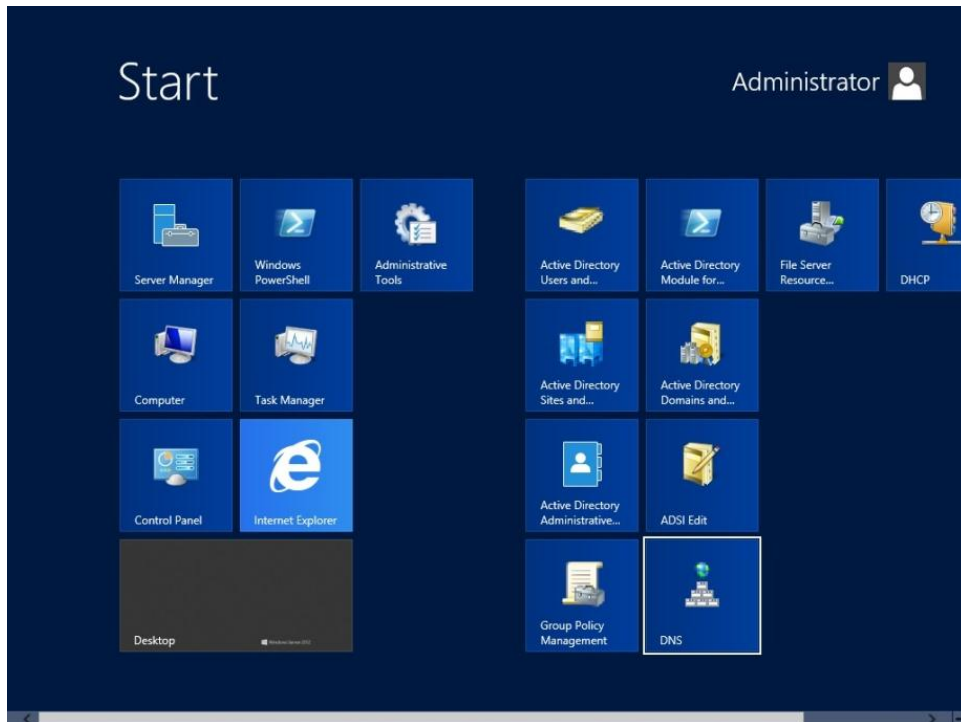
1. Open IIS → expand sites and select the website (YAHOO.COM)



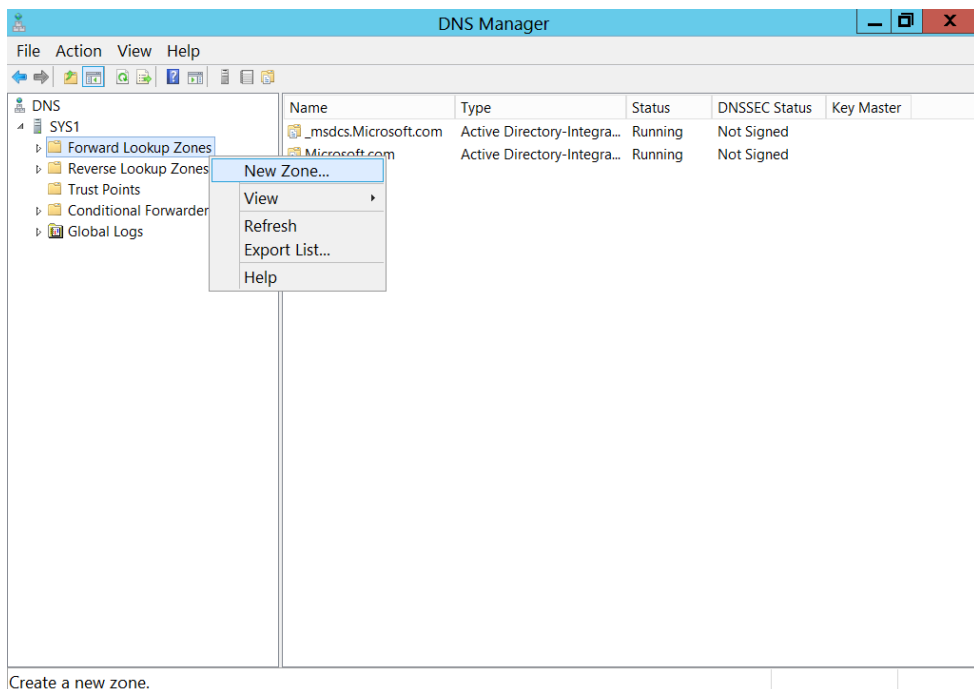
2. Open **Directory Browsing Feature** → and click **Enable**. (on Actions pane)

DNS Configuration for the Website

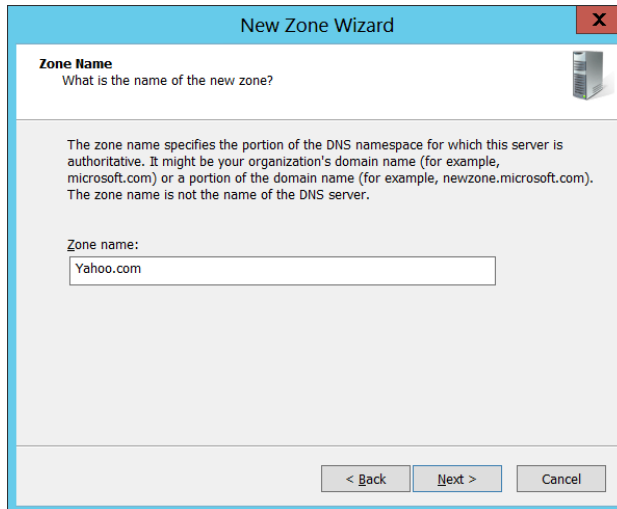
1. Go to Start, select DNS



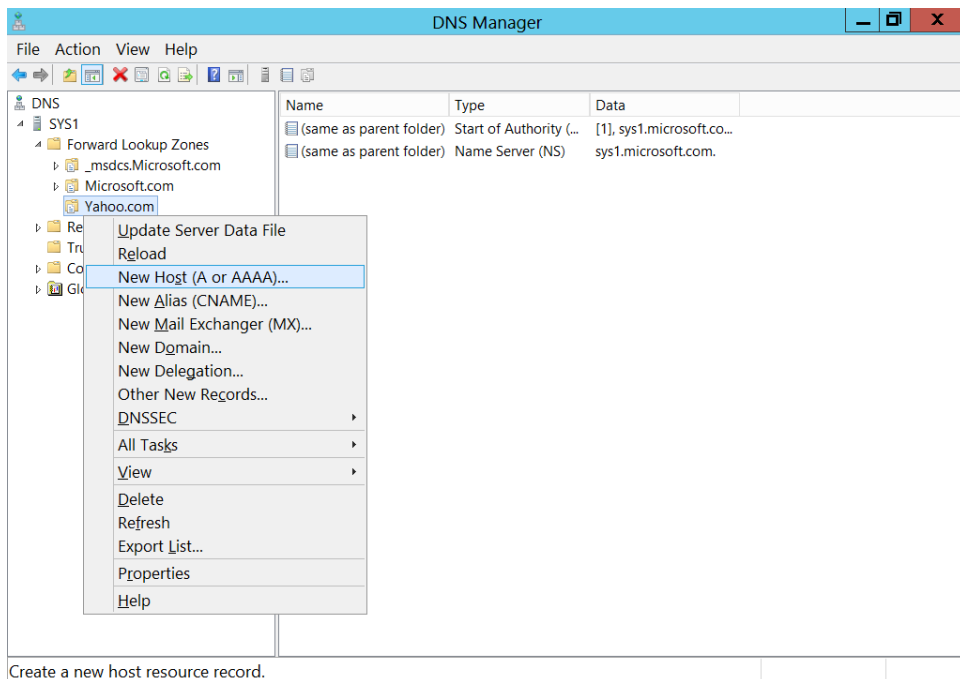
2. Select **Forward Lookup Zone** → Right click select **New Zone**



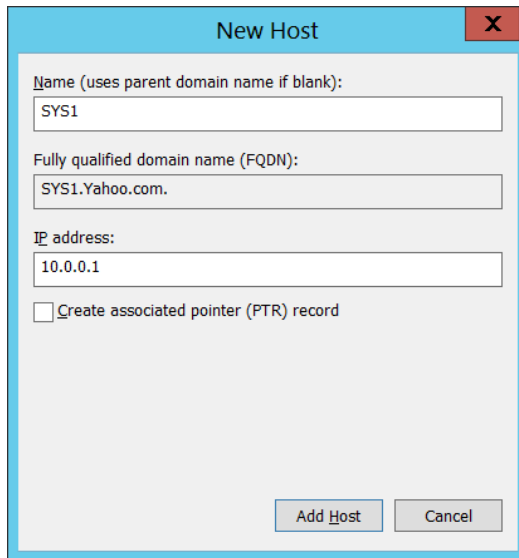
3. Create a new primary zone in **Forward Lookup Zone** and mention the website **Domain Name** (Ex:YAHOO.COM)



4. Select the zone → Right click select **New Host**



5. Mention the **Web Server** name and IP Address →Add Host →OK →Done.



New Host

Name (uses parent domain name if blank):
SYS1

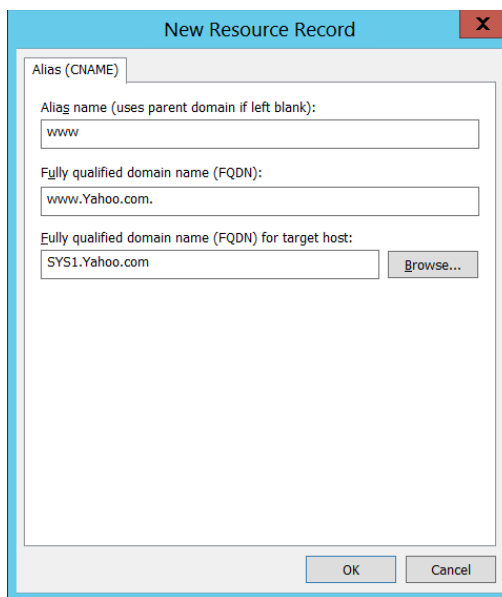
Fully qualified domain name (FQDN):
SYS1.Yahoo.com.

IP address:
10.0.0.1

☐ Create associated pointer (PTR) record

Add Host Cancel

6. Select the zone →Right click select **New Alias** & Create an **Alias** (E.g.: www) for the host, which you specified in the host header for the site →click **OK**.



New Resource Record

Alias (CNAME)
www

Alias name (uses parent domain if left blank):
www

Fully qualified domain name (FQDN):
www.Yahoo.com.

Fully qualified domain name (FQDN) for target host:
SYS1.Yahoo.com Browse...

OK Cancel

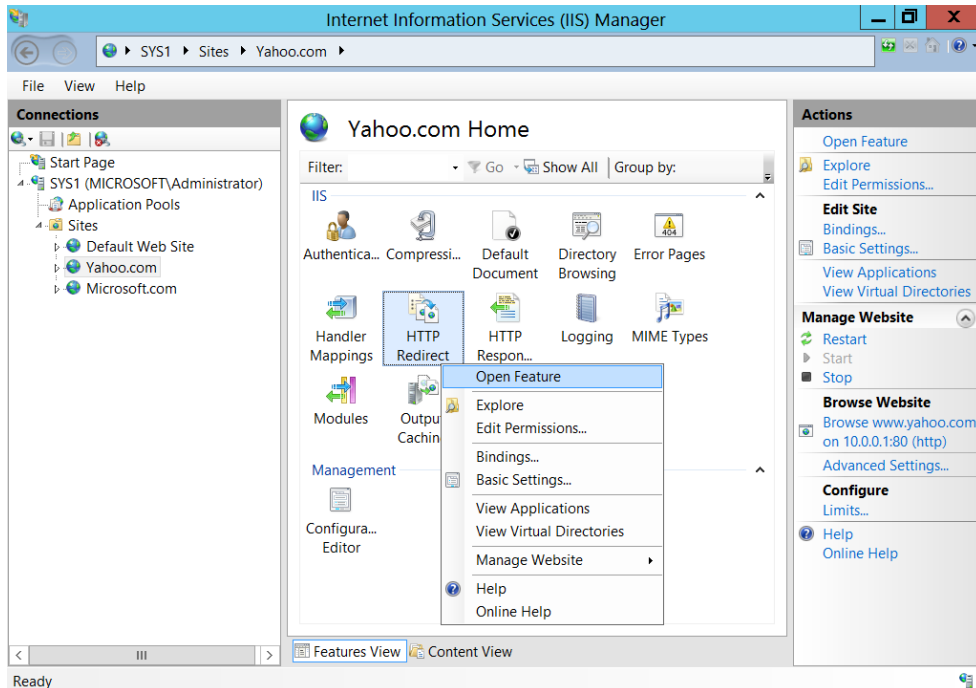
VERIFICATION:

1. Open **Internet Explorer** or any browser and access the **website**

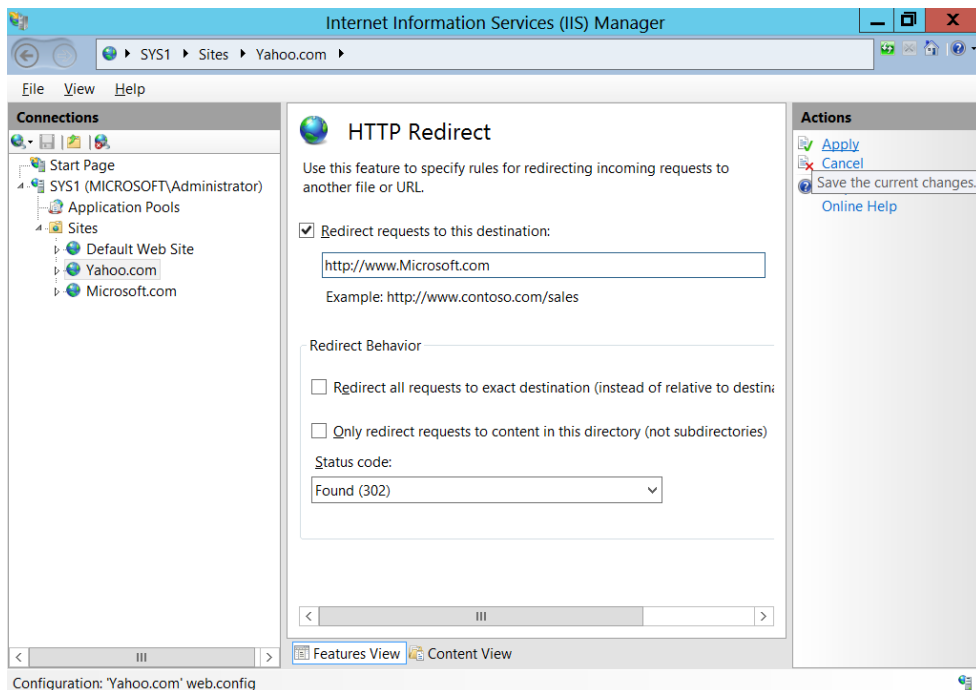


Lab – 3: Configuring redirection of Websites

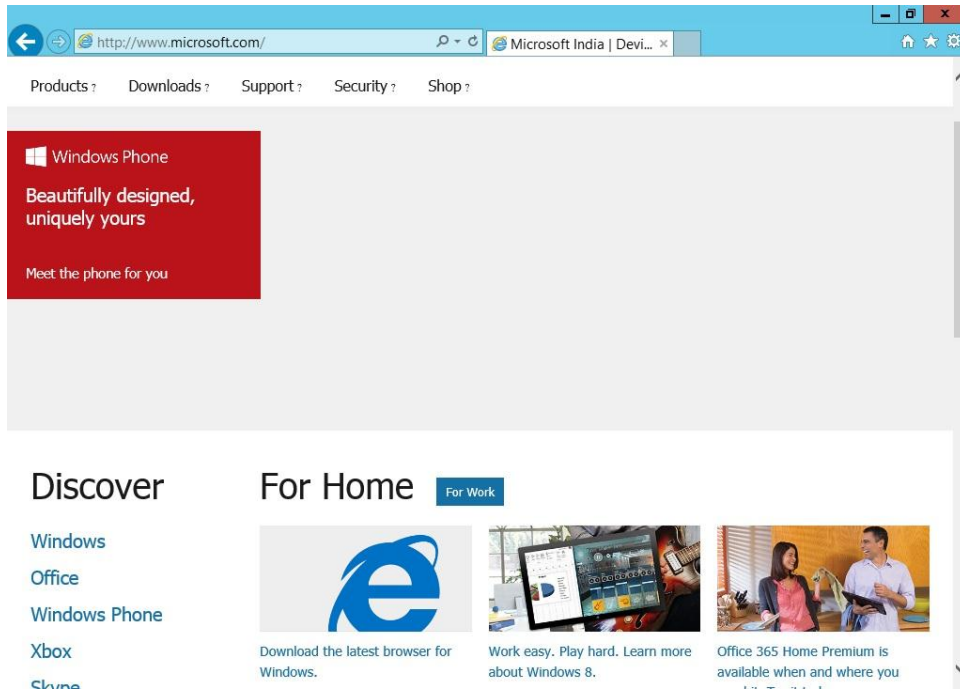
1. Go to Start select **Internet Information Services Manager**,
2. Create **two websites**, Ex: **YAHOO.COM** and **MICROSOFT.COM**
3. If YAHOO has to be redirected to MICROSOFT then Select **YAHOO.COM** → Open **HTTP Redirect** feature



4. Select the check box **Redirect requests to this destination** give the destination as <http://www.MICROSOFT.com> and click **Apply** in the actions Pane.

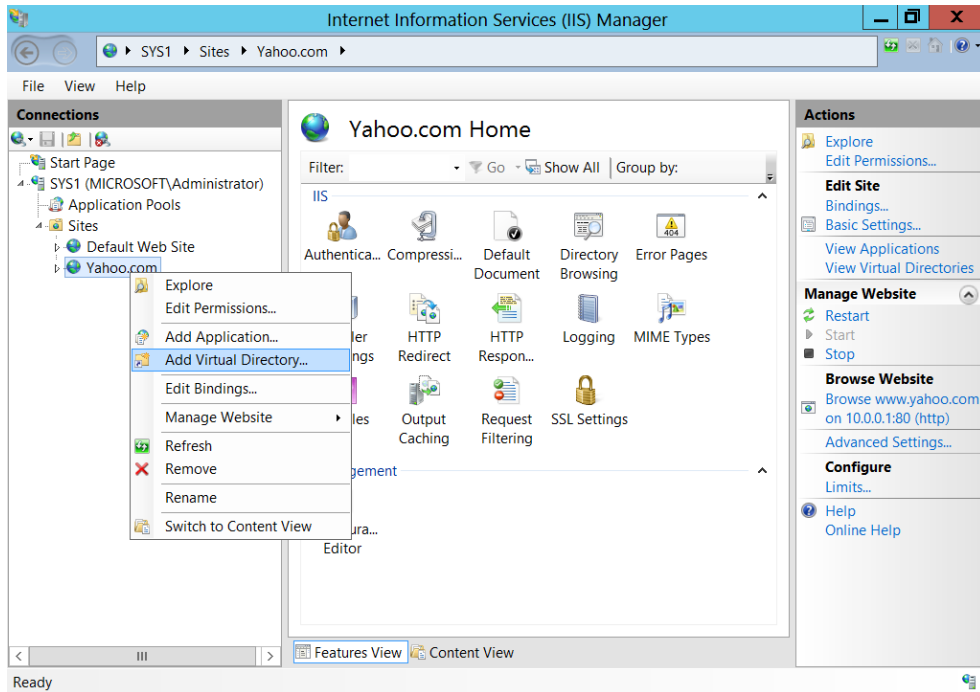


5. Open **Internet Explorer** or any browser and access **Yahoo (www.yahoo.com)** and it will be automatically redirected to **MICROSOFT (www.MICROSOFT.com)**.

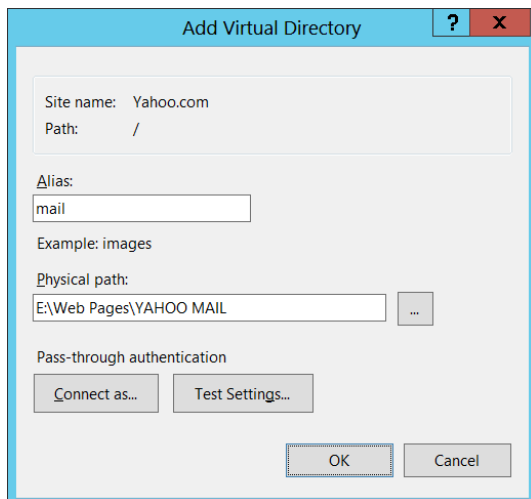


Lab – 4: Creating Virtual Directory

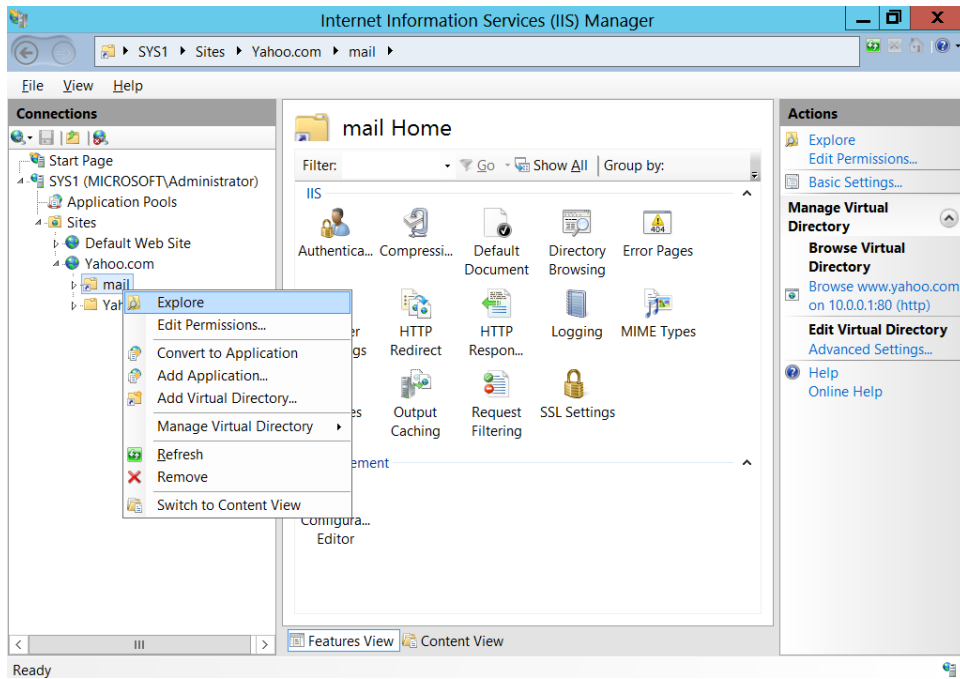
1. Go to Start, select **Internet Information Services Manager**.
2. Expand the system name, Select the Web Site (Yahoo) for which you want to create Virtual Directory → Right click and select **Add Virtual Directory**.



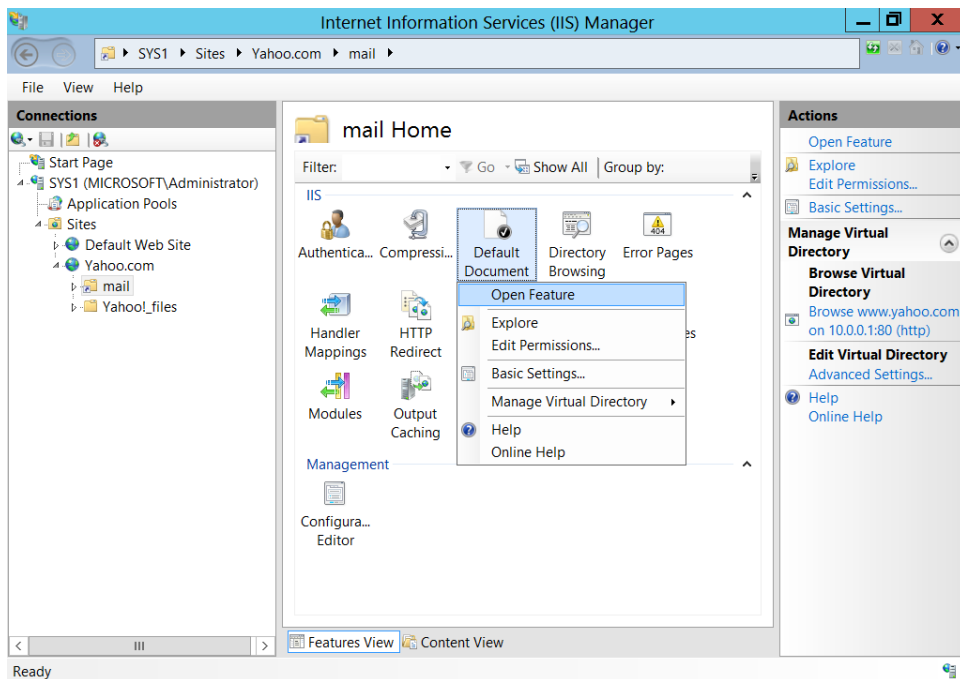
3. Specify the **Alias** name to the **Virtual Directory** (Ex: mail), and **Browse** to select the physical path Ex: (D:\Yahoo\mail) → click **OK**.



4. Virtual Directory will be created.



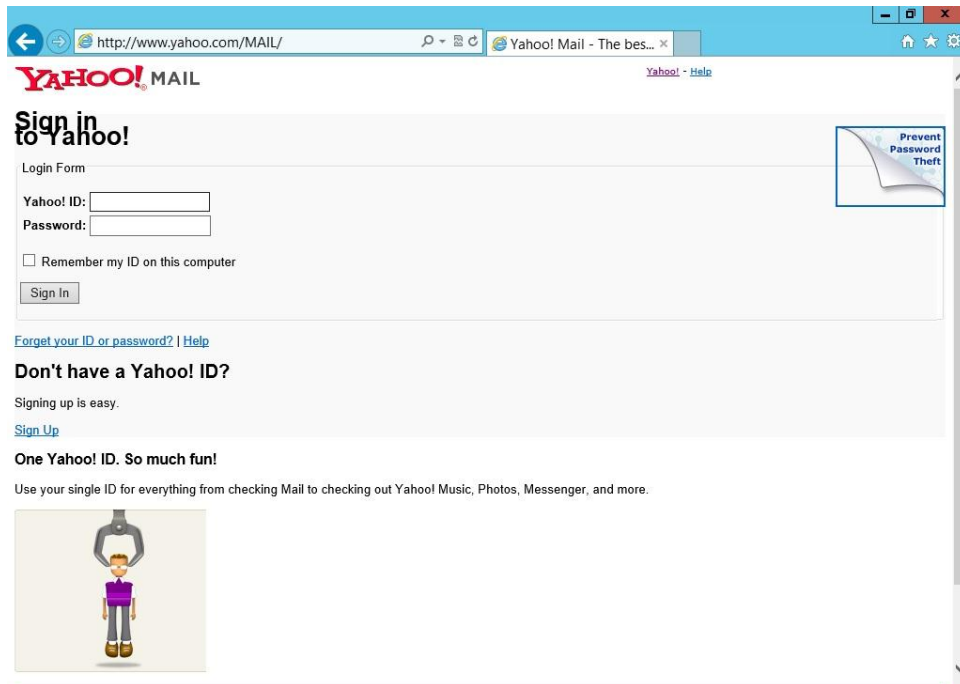
5. Add the **Default Document** for the **Virtual Directory** → OK



6. To access the virtual directory specify the syntax in **Internet Explorer**

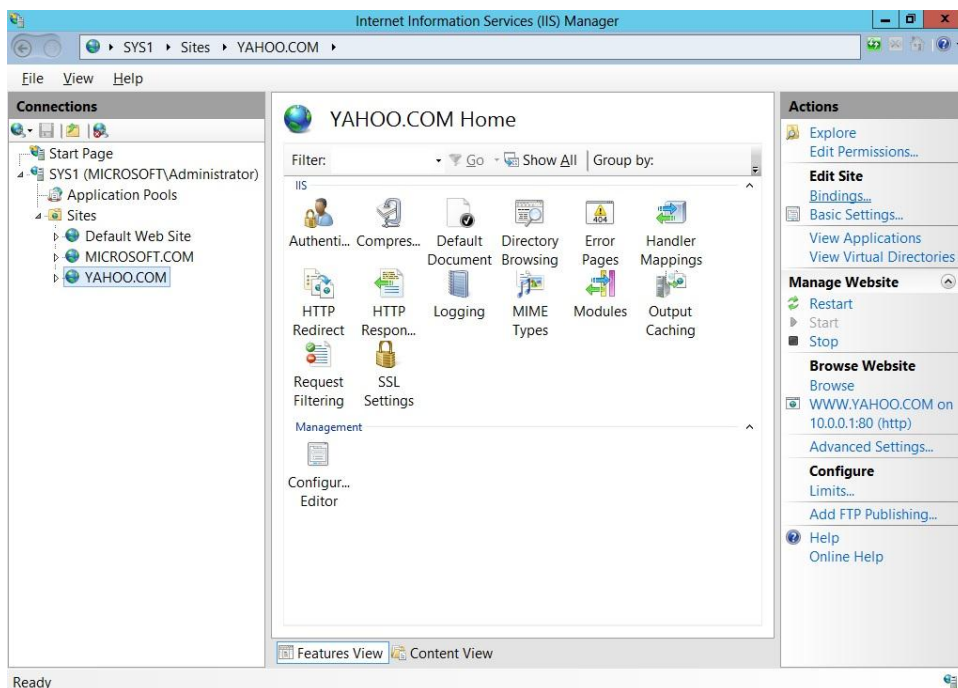
<http://website/virtualdirectoryname>

Ex: <http://www.Yahoo.com/mail>



Lab – 5: Changing the Web Site IP address or Port no

1. Go to Start, select **Internet Information Services Manager**.
2. Select the Web site → click **Bindings** in the Actions Pane.

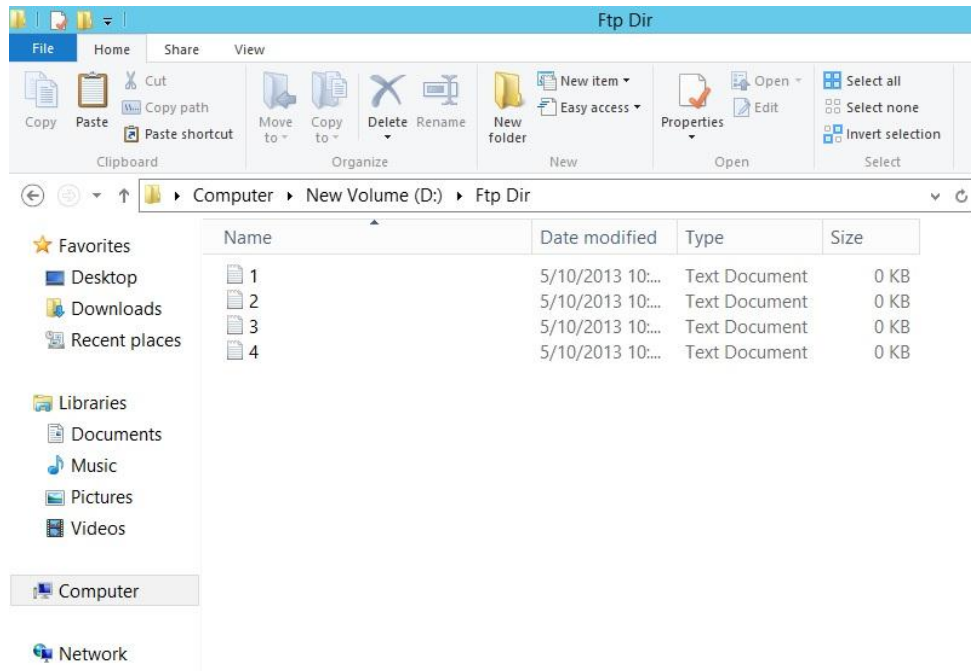


3. Click **edit** and change the **IP address or port number or host name**.
4. If the port number is changed then the website can be accessed only by specifying the port number http://www.yahoo.com:port_number

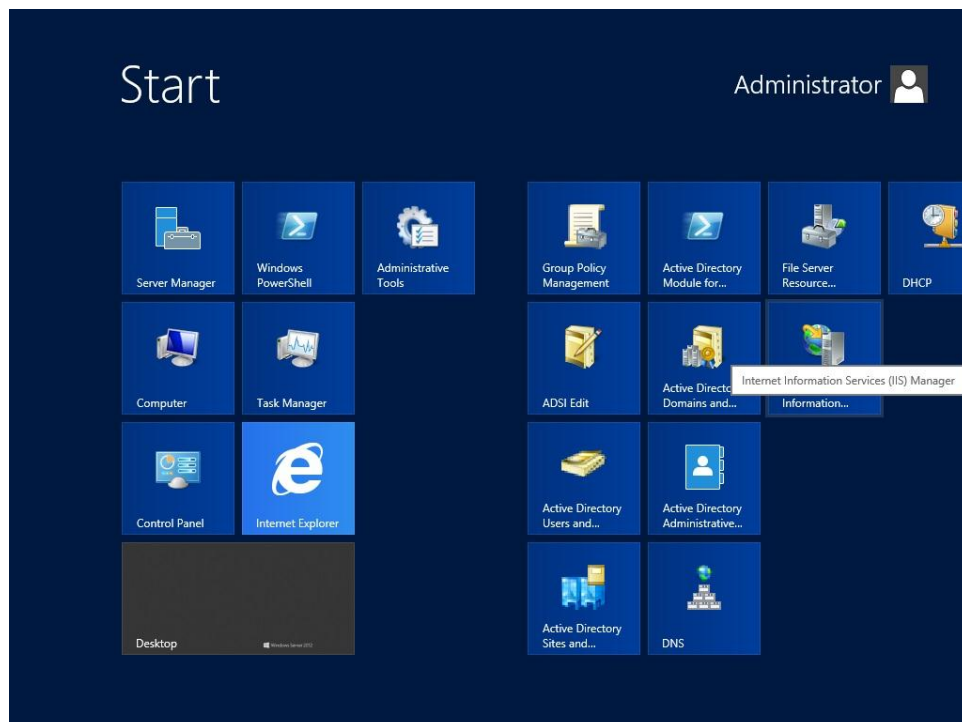


Lab – 6: Creating Do not Isolate user FTP Site

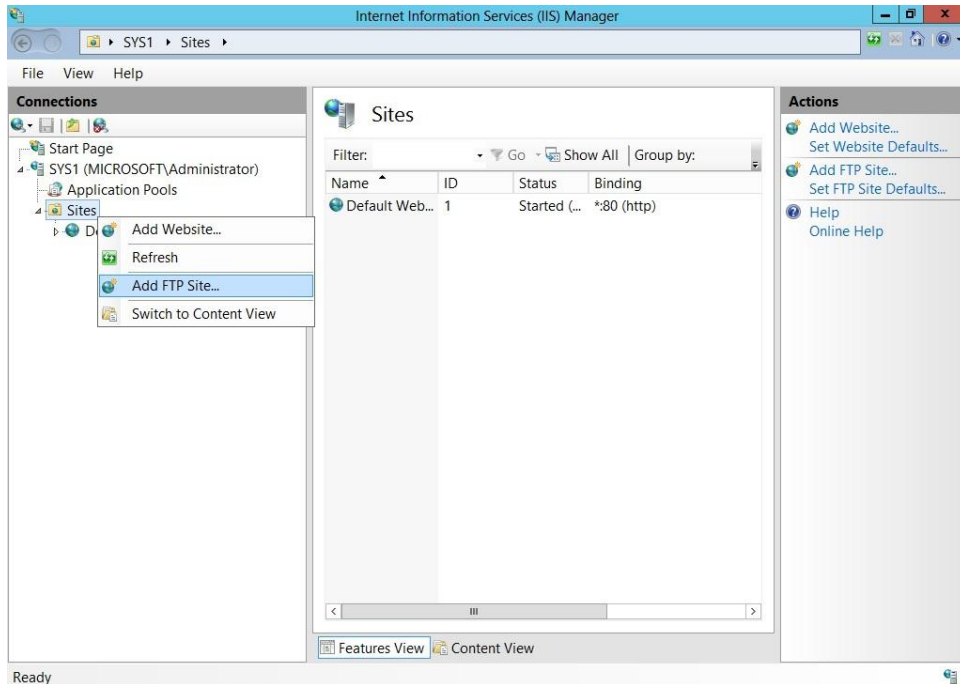
1. Open any drive and **create a folder** (Ex: FTP Dir) → Open the folder and **create some files** Ex: 1.txt, 2.txt, 3.txt, 4.txt.



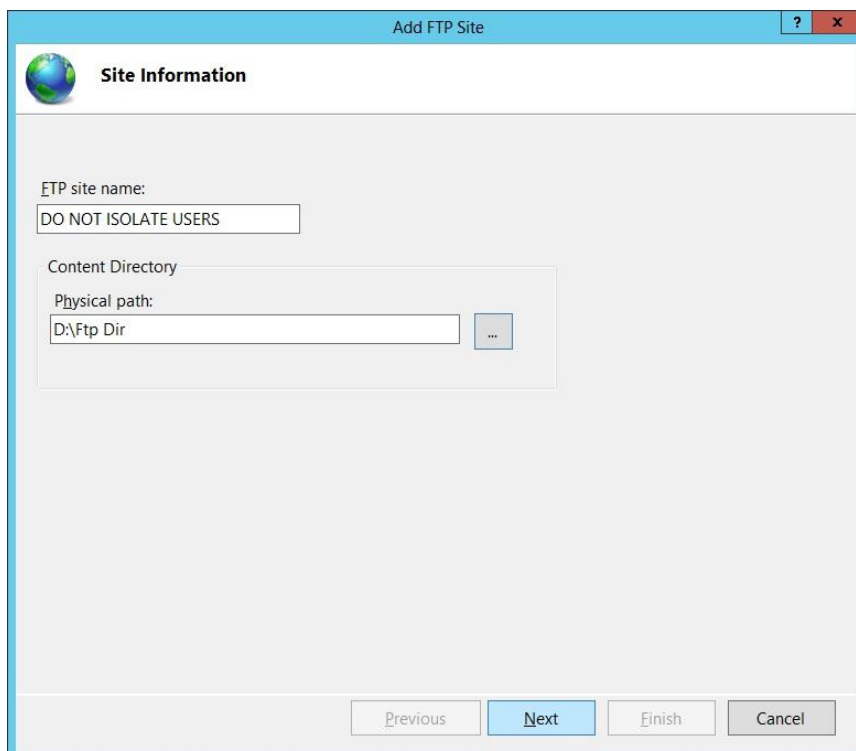
2. Go to Start, select **Internet Information Services (IIS) Manager**.



3. In the left pane of the **Internet Information Services** dialog box → Expand the server → Right click on **Sites** and select **ADD FTP Site**



4. In Site Information screen, enter the FTP site name, and enter the path to the home folder (Content Directory) you want to assign to this FTP site. This can be either a local path or a UNC path of the shared folder → you can **browse for this folder** if you need to → click **Next**.



5. In the **Bindings and SSL Settings** dialog box select the IP address and port no. and select **"NO SSL"**.

The screenshot shows the 'Add FTP Site' dialog box with the 'Binding and SSL Settings' tab selected. The 'Binding' section has 'IP Address' set to '10.0.0.1' and 'Port' set to '21'. The 'Enable Virtual Host Names' checkbox is unchecked. The 'Start FTP site automatically' checkbox is checked. The 'SSL' section has 'No SSL' selected. The 'SSL Certificate' dropdown is set to 'Not Selected'. At the bottom are 'Previous', 'Next', 'Finish', and 'Cancel' buttons.

6. In Authentication and Authorization Information dialog box Check the box for **Anonymous and Basic**, Select **All Users**, Check the box for **Read and Write** → click **Finish**.

The screenshot shows the 'Add FTP Site' dialog box with the 'Authentication and Authorization Information' tab selected. Under 'Authentication', both 'Anonymous' and 'Basic' checkboxes are checked. Under 'Authorization', 'Allow access to:' is set to 'All users'. Under 'Permissions', both 'Read' and 'Write' checkboxes are checked. At the bottom are 'Previous', 'Next', 'Finish', and 'Cancel' buttons.

Accessing the FTP site from the Client systems

SYS2 – CONFIGURATION

Go to any Computer → Open Internet Explorer and type ftp://ftp_ip_address and Press Enter.

Ex: <ftp://10.0.0.1>



FTP root at 10.0.0.1

To view this FTP site in File Explorer: press Alt, click **View**, and then click **Open FTP Site in File Explorer**.

05/10/2013 10:21PM	0	1.txt
05/10/2013 10:21PM	0	2.txt
05/10/2013 10:21PM	0	3.txt
05/10/2013 10:21PM	0	4.txt