

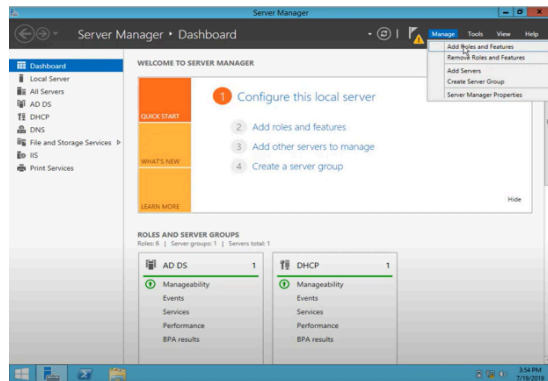
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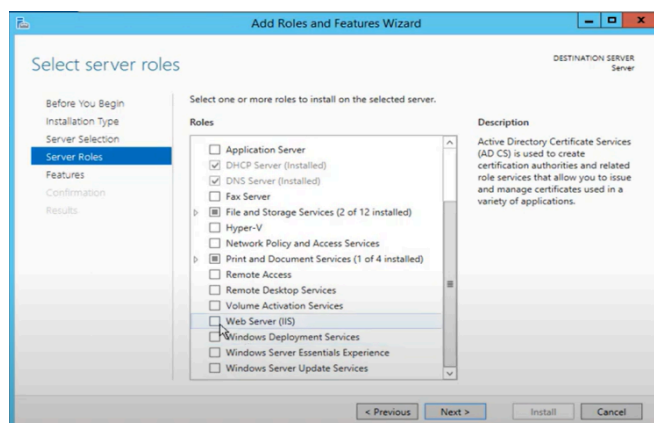
Installation of IIS web server and Hosting a website.

Step-1:- Install IIS (Internet Information Services)

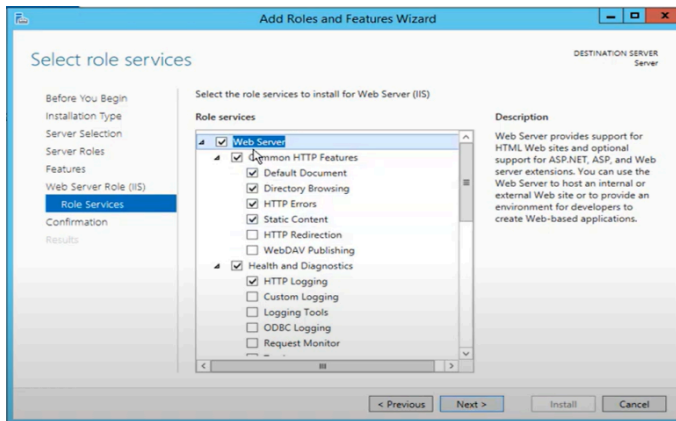
1. Log in to Windows Server 2012: Log in with administrative privileges.
2. Open Server Manager > Add Roles and Features.



3. Click Next on the “Before You Begin” screen.
4. Choose Role-based or feature-based installation and click Next.
5. Scroll down and check the box for Web Server (IIS). A pop-up will appear asking to add required features. Click Add Features, then click Next.

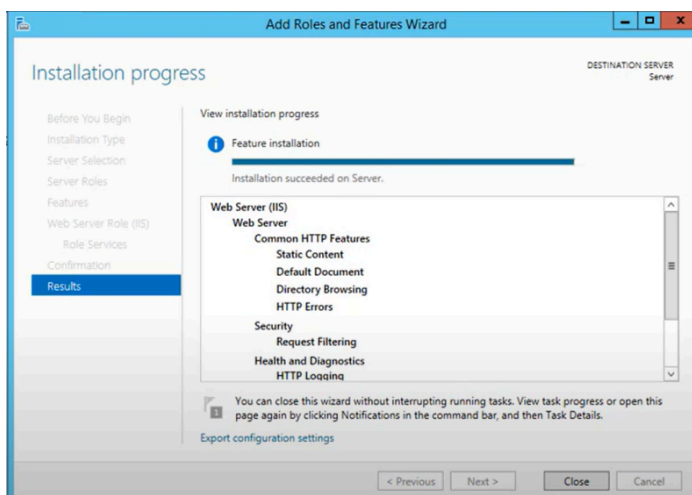
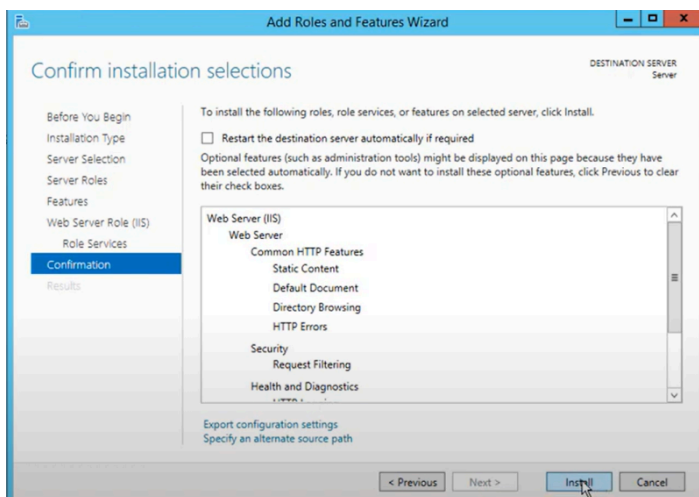


6. Web Server Role (IIS) Overview: Read the information and click Next.
7. Role Services: Select the required IIS features (e.g., Common HTTP Features, Application Development, Security, etc.). For a basic website, the default selections are sufficient. Click Next.



8. Confirm Installation: Review your selections and click Install.

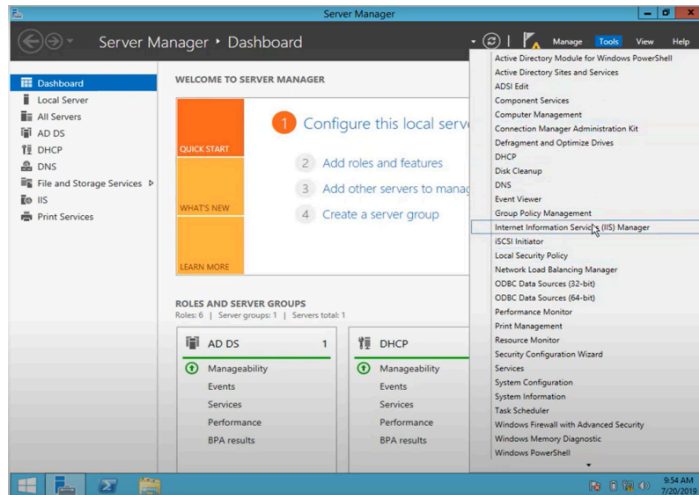
9. Wait for Installation :The installation process will begin. Wait for it to complete.



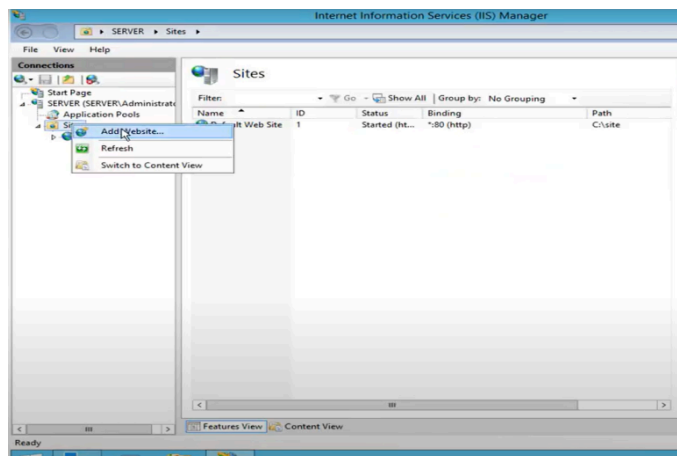
10. Verify Installation: Open a browser and navigate to <http://localhost>. If IIS is installed correctly, you'll see the default IIS welcome page.

Step -2:- Host a Website on IIS

1. Prepare Your Website Files : Ensure your website files (HTML, CSS, JS, etc.) are ready and organized in a folder on the server.
2. Open IIS Manager : In Server Manager, click on Tools > Internet Information Services (IIS) Manager.



3. Add a New Website: In the IIS Manager, expand the server node in the left-hand tree view. Right-click on Sites and select Add Website.



4. Configure the Website :

Site Name: Enter a name for your website (e.g., "MyWebsite").

Physical Path: Browse to the folder containing your website files.

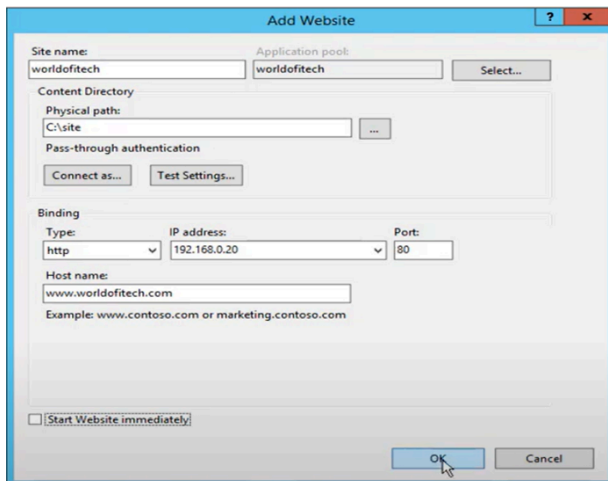
Binding:

Type: HTTP or HTTPS (if you have an SSL certificate).

IP Address: Choose an IP address or leave it as "All Unassigned"

Port: Use port 80 for HTTP or 443 for HTTPS.

Host Name: Enter the domain name (if applicable) or leave it blank for local hosting. Click OK to create the website.



5. Test the Website: Open a browser and navigate to the website using the server's IP address or domain name (e.g., <http://192.168.2.10> or <http://www.example.com>).

Step 3: Configure Firewall (if necessary)

Allow HTTP/HTTPS Traffic:

- Open Windows Firewall with Advanced Security.
- Click on Inbound Rules > New Rule.
- Select Port and click Next.
- Choose TCP and enter port 80 (for HTTP) or 443 (for HTTPS).
- Allow the connection and complete the wizard.

2. Test External Access:

- From another machine, try accessing the website using the server's IP address or domain name.

Sample HTML Code

```
<!DOCTYPE html>

<head>

<title>Home Page</title>

</head>

<body>

<h1>Home Page</h1>

</body>

</html>
```

Installation and configuration of FTP Server in windows server 2012

Step 1: Install FTP Server

1. **Log in to Windows Server 2012:**
Log in with administrative privileges.
2. **Open Server Manager:**
Click on the **Server Manager** icon on the taskbar or search for it in the Start menu.
3. **Add Roles and Features:**
In the Server Manager dashboard, click on **Manage > Add Roles and Features**.
4. **Before You Begin:**
Click **Next** on the "Before You Begin" screen.
5. **Select Installation Type:**
Choose **Role-based or feature-based installation** and click **Next**.
6. **Select Destination Server:**
Select the server where you want to install the FTP server (usually the local server) and click **Next**.
7. **Select Server Roles:**
Scroll down and check the box for **Web Server (IIS)**.
A pop-up will appear asking to add required features. Click **Add Features**, then click **Next**.
8. **Select Features:**
Expand **Web Server (IIS) > Web Server > FTP Server**.
Check the box for **FTP Server** and **FTP Extensibility**.
Click **Next**.
9. **Confirm Installation:**
Review your selections and click **Install**.
10. **Wait for Installation:**
The installation process will begin. Wait for it to complete.
11. **Verify Installation:**
Open IIS Manager (**Tools > Internet Information Services (IIS) Manager**) and check if the FTP section is available.

Step 2: Configure FTP Server

1. **Open IIS Manager:**
In Server Manager, click on **Tools > Internet Information Services (IIS) Manager**.
2. **Add FTP Site:**

In the IIS Manager, expand the server node in the left-hand tree view. Right-click on **Sites** and select **Add FTP Site**.

3. Configure FTP Site:

Site Name: Enter a name for your FTP site (e.g., "MyFTPSite"). **Physical Path:** Browse to the folder you want to use for FTP file storage. Click **Next**.

4. Binding and SSL Settings:

IP Address: Choose an IP address or leave it as "All Unassigned". **Port:** Use port 21 (default FTP port).

SSL: Choose **No SSL** for basic setup or **Require SSL** for secure FTP. Click **Next**.

5. Authentication and Authorization:

Authentication: Choose **Basic** (for simplicity) or **Anonymous** (if no authentication is needed).

Authorization:

Allow access to: Select **Specified users** or **All users**.

Permissions: Check **Read** and/or **Write** based on your requirements.

Click **Finish**.

Step 3: Configure Firewall for FTP

1. Allow FTP Traffic:

Open **Windows Firewall with Advanced Security**.

Click on **Inbound Rules > New Rule**.

Select **Port** and click **Next**.

Choose **TCP** and enter port **21**.

Allow the connection and complete the wizard.

2. Allow FTP Passive Mode Ports (if needed):

FTP passive mode requires additional ports. Open ports **1024-65535** in the firewall or configure a specific range in IIS.

Step 4: Test FTP Server

1. Using an FTP Client:

Install an FTP client like FileZilla or use the Windows command line.

Connect to the FTP server using the server's IP address, port 21, and the credentials you configured.

2. Test File Transfer:

Upload and download files to ensure the FTP server is working correctly.

Step 5: Optional Configurations

1. Configure FTP User Isolation:

In IIS Manager, select your FTP site and click on **FTP User Isolation**. Choose **Isolate users** to restrict users to their own directories.

Enable FTP Logging:

In IIS Manager, select your FTP site and click on **FTP Logging**. Configure logging settings for monitoring and troubleshooting.

3. Set Up SSL for Secure FTP:

Obtain an SSL certificate and bind it to your FTP site for secure file transfers.

4. Configure IP Restrictions:

In IIS Manager, select your FTP site and click on **FTP IPv4 Address and Domain Restrictions**.

Add rules to allow or deny specific IP addresses.

Steps to Execute FTP in COmmand Prompt

1. Open Command Prompt.

2. Start FTP session:

i. ftp 192.168.1.100

3. Enter username and password:

i. User (192.168.1.10:(none)): your_username

ii. Password: your_password

4. Change to the desired folder on the FTP server:

ftp> cd ftpfolder

5. Set binary mode for file transfer:

ftp> binary

6. Upload the file from **D:\sample\name.txt** to the FTP server: ftp> put D:\sample\name.txt


7. Verify the file was uploaded:

ftp> ls

8. Exit FTP session:

ftp> bye

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