1) Installation of Windows Server 2012 and Assigning IP Address

Installation:

- 1. Boot from the Windows Server 2012 R2 ISO or DVD.
- 2. Select language, time, and keyboard preferences, then click Next.
- 3. Click Install Now.
- 4. Choose the edition (e.g., Windows Server 2012 R2 Standard (Server with a GUI)), click Next.
- 5. Accept the license terms.
- 6. Choose Custom: Install Windows only.
- 7. Select the target disk and click Next to begin installation.
- 8. Set an Administrator password after reboot.

Assigning Static IP:

- 1. Go to Control Panel > Network and Sharing Center > Change adapter settings.
- 2. Right-click Ethernet, select Properties.
- 3. Select Internet Protocol Version 4 (TCP/IPv4) > Properties.
- 4. Select Use the following IP address and assign:
 - IP address: 192.168.1.10 (example)
 - Subnet mask: 255.255.255.0
 - Default gateway: 192.168.1.1
 - Preferred DNS: 192.168.1.10 (if server will run DNS)

2) Installation of Active Directory in Windows Server 2012

- 1. Open Server Manager.
- 2. Click Add Roles and Features.
- 3. Select Role-based or feature-based installation.
- 4. Select the local server.
- 5. In the Roles section, check Active Directory Domain Services.
- 6. Add required features when prompted.
- 7. Click Next through the wizard and Install.
- 8. After installation, click Promote this server to a domain controller.
 - Select Add a new forest and enter root domain name (e.g., corp.local).
 - Set DSRM (Directory Services Restore Mode) password.
 - Complete wizard and restart server.

3) Configuring Member Server and Creating Password Policy

Configuring Member Server:

- 1. On another server, go to System Properties > Change Settings under Computer Name.
- 2. Click Change, select Domain, and enter the domain name (e.g., corp.local).

- 3. Provide domain admin credentials to join.
- 4. Restart the server to become a Member Server.

Creating Password Policy:

- 1. On the Domain Controller, open Group Policy Management (gpmc.msc).
- 2. Edit the Default Domain Policy.
- 3. Navigate to:

Computer Configuration > Policies > Windows Settings > Security Settings > Account Policies > Password Policy.

- 4. Set:
 - Minimum password length
 - Password complexity requirements
 - Maximum/Minimum password age
- 5. Close and force update via gpupdate /force.

4) Creating Profiles and Configuring Home Folders

User Profile Configuration:

- 1. Open Active Directory Users and Computers.
- 2. Create a new user or open an existing one.
- 3. Under Profile tab:
 - Profile Path: \\server\profiles\\%username\%
 - Home Folder:
 - Select Connect, choose drive letter (e.g., H:)
 - Path: \\server\homefolders\\%username\%

Configure File Share on Server:

- 1. Create folders C:\Profiles and C:\HomeFolders.
- 2. Right-click folder > Properties > Sharing > Advanced Sharing.
- 3. Share the folder and set permissions (Full Control to domain users/admins).
- 4. Apply NTFS permissions as needed:
 - Creator Owner: Full control
 - Domain Admins: Full control

5) Configuring Child Domain and Additional Domain Controller

Child Domain:

- 1. On a new server, install Active Directory Domain Services role.
- 2. After install, click Promote this server.
- 3. Choose Add a new domain to an existing forest > Child Domain.
- 4. Enter parent domain credentials.
- 5. Set child domain name (e.g., branch.corp.local).

6. Complete the wizard, restart.

Additional Domain Controller (ADC):

- 1. On another server, install AD DS role.
- 2. Click Promote this server.
- 3. Select Add a domain controller to an existing domain.
- 4. Provide domain credentials, select site, DNS, GC (as needed).
- 5. Complete the wizard and reboot.

6) Installation of IIS Web Server and Hosting a Website

Install IIS:

- 1. Open Server Manager > Add Roles and Features.
- 2. Choose Web Server (IIS) role.
- 3. Include default features and Web Server > Common HTTP Features.
- 4. Complete the wizard and install.

Host a Website:

- 1. Place your website files in a folder (e.g., C:\inetpub\wwwroot\mysite).
- 2. Open IIS Manager.
- 3. Right-click Sites > Add Website:
 - Site name: MySite
 - Physical path: C:\inetpub\wwwroot\mysite
 - Binding: Port 80, IP (or All Unassigned)
- 4. Click OK. Browse via http://<server-ip>/.

7) Installation and Configuration of IIS and FTP Server

Install FTP Server:

- 1. Go to Add Roles and Features.
- 2. Under Web Server (IIS) > FTP Server, select:
 - FTP Service
 - FTP Extensibility
- 3. Install.

Configure FTP Site:

- 1. Create a folder for FTP (e.g., C:\FTPShare).
- 2. Open IIS Manager > Sites > Add FTP Site.
 - Name: FTPSite
 - Path: C:\FTPShare
 - IP: Server IP, Port 21

- 3. Authentication:
 - Select Basic Authentication
 - Allow specific users or groups (e.g., domain users)
- 4. Authorization:
 - Specify read/write permissions
- 5. Configure Windows Firewall to allow FTP traffic (port 21).
- 6. Test FTP connection from a client using:
 - ftp://<server-ip> or FileZilla.