***PXE server with Serva***

# Step 1: Prepare the Server

## Install a 64-bit version of Windows:

Ensure you have a 64-bit version of Windows installed on your server machine.

# Step 2: Download and Install Serva

## Download Serva:

Go to the Serva official website and download the latest version of Serva Community (free version) or Serva Pro if you have a license.

## Install Serva:

Extract the downloaded zip file to a directory, e.g., C:\Serva.

No installation is necessary; Serva runs directly from the extracted files.

# Step 3: Configure Serva for PXE Boot

## Create Necessary Directories:

In the Serva directory (C:\Serva), create the following subdirectories:

\SERVA\_ROOT

\SERVA\_ROOT\WIA\_WDS

\SERVA\_ROOT\WIA\_WDS\boot

\SERVA\_ROOT\WIA\_WDS\boot\x64

\SERVA\_ROOT\WIA\_WDS\install

\SERVA\_ROOT\WIA\_WDS\install\x64

**Prepare Windows Installation Files**:

Copy the contents of your Windows installation ISO to the \SERVA\_ROOT\WIA\_WDS\install\x64 directory.

**Run Serva**:

Navigate to the Serva directory and run Serva64.exe as an administrator.

# Step 4: Configure Serva Settings

## Configure Network Settings:

Open Serva and go to the Settings menu.

Go to the DHCP tab:

Enable proxyDHCP (if you have an existing DHCP server on your network).

Set BINL, BSDP, and boot file to pxelinux.0.

Check Bind DHCP to this address and enter the IP address of your Serva server.

Configure the TFTP options: set TFTP root to C:\Serva\SERVA\_ROOT.

**Configure WIA\_WDS**:

Go to the WIA/WDS tab:

Enable WIA\_WDS.

Set WIA\_WDS root to C:\Serva\SERVA\_ROOT\WIA\_WDS.

**Save Settings**:

Click OK to save the settings and close the configuration window.

# Step 5: Start Serva

## Start the TFTP and DHCP services:

Click on the Network Services button in Serva to start the necessary services.

Ensure there are no errors in the log window.

# Step 6: Configure Client for PXE Boot

## Network Boot Configuration:

Set up the client machine to boot from the network (PXE). This usually involves entering the BIOS/UEFI settings and enabling network boot or setting the network card as the first boot device.

# Step 7: Boot the Client and Install Windows

## Boot the Client Machine:

Turn on the client machine and select the network boot option. The client should receive an IP address from the Serva server and start the PXE boot process.

## Select Windows Installation:

Follow the on-screen instructions to start the Windows installation process. The client will load the Windows PE environment and prompt you to install Windows.

# Step 8: Post-Installation Configuration

## Complete Windows Installation:

Proceed with the standard Windows installation steps, selecting the appropriate partition and following the prompts.

## Network Configuration:

After installation, configure the network settings on the client machine to connect to your network.