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Deploy Windows Installer on Network using iVentoy

1. Downloading iVentoy: Acquiring the Necessary Software

- **Navigating to the Official Website:** Your first step is to open your web browser and go to the official iVentoy website: iventoy.com. This ensures you are downloading the software from a legitimate source, minimizing the risk of malware or corrupted files.
- **Locating the Downloads Section:** Once on the website, look for a clearly labeled "Downloads" or "Download" section. This section typically lists the different versions of iVentoy available.
- **Identifying the Correct Version:** Pay close attention to the available versions. For a standard Windows 64-bit operating system, you'll want to specifically look for the "Windows 64-bit" download option.
- **Accessing the GitHub Page:** The download link for the Windows 64-bit version often redirects to iVentoy's GitHub repository. GitHub is a popular platform for software development and hosting, and this is a common way for developers to distribute their software.
- **Initiating the Download:** On the GitHub page, you'll likely find a section labeled "Releases." Click on the latest release, and you should see the download links for different files. Look for a file with a .zip or .exe extension for the Windows version and click to begin the download.

2. Extracting and Preparing ISO Files: Getting Your Installation Media Ready

- **Locating the Downloaded File:** Once the download is complete, the iVentoy archive (usually a .zip file) will typically be saved in your browser's default download location (e.g., the "Downloads" folder).
- **Extracting the Archive:** Navigate to the downloaded file and right-click on it. Select an option like "Extract All..." or use a file compression utility like WinRAR or 7-Zip to extract the contents of the archive.
- **Choosing the Destination Folder:** During the extraction process, you'll be prompted to choose a destination folder. The video specifically recommends extracting the iVentoy files to the root of your C drive (e.g., C:\iVentoy). This can simplify the subsequent steps.
- **Locating the ISO Folder:** After extraction, navigate to the newly created iVentoy folder on your C drive. Inside this folder, you will find a subfolder named "ISO." This is where you need to place the ISO files of the operating systems you want to install.
- **Copying the ISO Files:** Locate the ISO files for the operating systems you wish to install over the network. These are typically large files with the .iso extension. Copy these ISO files into the C:\iVentoy\ISO folder. You can copy multiple ISO files here, and iVentoy will present them as bootable options.

3. Running iVentoy: Initiating the Server Software

- Navigating to the iVentoy Directory: Open File Explorer and go to the C:\iVentoy directory where you extracted the iVentoy files.
- Identifying the Executable File: Look for a file named something like iVentoy.exe or iVentoy_x64.exe (the video mentions iVentoy 64-bit main executable file). The .exe extension indicates that this is an executable program.
- Running as Administrator: Right-click on the iVentoy executable file. From the context menu, select "Run as administrator." This is crucial because iVentoy needs elevated privileges to bind to network ports and manage network booting.
- Clicking the Start Button: Once iVentoy is running, you should see a user interface. Look for a prominent "Start" button and click it. This action will start the iVentoy server, making it ready to serve bootable images to client devices on your network.

4. Configuring the Target Device: Preparing the Client for Network Boot

- Accessing BIOS/UEFI Settings: The process for accessing the BIOS (Basic Input/Output System) or UEFI (Unified Extensible Firmware Interface) settings varies depending on your computer's manufacturer. Common methods include pressing keys like Delete, F2, F12, Esc, or other function keys during the initial startup screen. Consult your computer's manual or look for on-screen prompts during boot-up.
- Navigating to Boot Options: Once in the BIOS/UEFI settings, navigate to the "Boot," "Boot Order," or similar section. The exact wording will differ between systems.

- **Enabling Network Boot:** Look for an option related to "Network Boot," "PXE Boot," "Boot from Network," or similar terms. Enable this option.
- **Prioritizing Network Boot (Optional but Recommended):** You might want to temporarily prioritize network boot in the boot order. This ensures that the system attempts to boot from the network first. You can usually adjust the boot order by selecting a boot device and using arrow keys or other designated keys to move it up or down the list.
- **Saving Changes and Exiting:** After enabling network boot and adjusting the boot order (if desired), make sure to save the changes you've made in the BIOS/UEFI settings. Look for an option like "Save and Exit," "Exit Saving Changes," or similar. The system will then reboot.

5. Booting from Network: Initiating the Network Boot Process

- **Restarting the Target Device:** After saving the BIOS/UEFI settings, your computer will restart.
- **Observing the Boot Process:** Pay close attention to the initial startup screen. If you've correctly enabled network boot, you should see an attempt to connect to a PXE server (Preboot Execution Environment). This might be indicated by messages like "PXE Booting...", "DHCP...", or similar network-related information.
- **Selecting the Correct Network Boot Option:** In many modern systems with UEFI firmware, you might see multiple network boot options. The video specifically mentions selecting the "network adapter IPv4 UEFI" option. Ensure you choose the UEFI-based IPv4 network boot option for compatibility with iVentoy.

6. Selecting ISO: Choosing the Operating System to Install

- The iVentoy Boot Menu: If the network boot is successful and the target device connects to the iVentoy server running on your computer, you will be presented with the iVentoy boot menu.
- Listing Available ISOs: This menu will display a list of all the ISO files you previously copied into the C:\iVentoy\ISO folder.
- Navigating the Menu: Use your keyboard's arrow keys (usually up and down) to navigate through the list of available operating systems.
- Selecting Your Desired OS: Once you have highlighted the ISO file of the operating system you want to install, press the Enter key. This will initiate the boot process from the selected ISO image, just as if you had booted from a USB drive or DVD containing that installation media.
- Proceeding with Installation: The selected operating system's installation program will now start. Follow the on-screen instructions to proceed with the installation process as you normally would.

7. Hyperlink's

- [iventoy](https://www.iventoy.com/en/index.html)
- <https://www.iventoy.com/en/index.html>

8. Reference video

- <https://youtu.be/BV3XkJLMCQo> By [Tricknology](#) (Recommend)

9. Conclusion

- Installing an operating system over a network using iVentoy offers a streamlined and efficient alternative to traditional methods involving USB drives or DVDs. By setting up the iVentoy server with your desired ISO files and configuring your target device for network booting, you can easily select and boot into various operating system installers directly from your network. This method simplifies the deployment process, especially when dealing with multiple machines or frequently changing operating systems, eliminating the need to create and manage physical bootable media.

Custom Windows 10 ISO image

1. Introduction

- It begins by outlining the problem: the time-consuming process of installing Windows 10 and then manually installing frequently used applications on each new installation.
- The solution presented is the creation of a custom Windows 10 ISO image that integrates the installation of your chosen applications, automating the post-installation setup.
- This Guide promises a step-by-step guide to achieve this, saving significant time and effort in the long run.

2. Prerequisites and Preparation

● Required Materials:

- A USB pen drive with sufficient storage capacity but it should be at least 8GB, preferably 16GB or more, to accommodate the Windows 10 installation files and potentially the captured image.
- A Windows 10 ISO image. We assume you already have one. If not, you can download it from Microsoft's official website using the Media Creation Tool.

● Choosing the Source Installation:

- *Option 1: Creating a new Windows 10 installation specifically for capturing:* This involves installing a fresh copy of Windows 10 on a virtual machine (like VirtualBox or VMware) or a separate partition. This allows for a clean environment to install only the necessary applications.

- **Option 2: Using your current Windows 10 system:** If you already have your frequently used applications installed on your current machine, you can use this as the base for creating the custom ISO. However, be mindful that this will include all your currently installed software.
- **Installing Applications:**
 - This is a crucial step. You need to install all the applications you want to be automatically installed whenever you use the custom ISO.
 - Consider installing applications with silent installation options (if available) to ensure a smoother, unattended installation process later.
 - Configure the applications as desired (e.g., default settings, license information if applicable).

3. Capturing the Windows Image

- **Booting into Windows Recovery Environment (WinRE):**
 - You can use the Windows 10 installation media (Bootable pen drive).
 - Accessing the Command Prompt from the Windows Setup environment (usually by pressing Shift + F10 during the initial setup screens). This is where the image capture command will be executed.
- **Using the DISM Command:**
 - **DISM** (Deployment Image Servicing and Management) is a command-line tool used to manage Windows images.
- The specific command used will be similar to:
`dism /capture-image /imagefile:<path_to_save_wim>\install.wim /capturedir:C:\ /name:"CustomWindows10"`

1. **/capture-image:** Specifies the image capture operation.
 2. **/imagefile:<path_to_save_wim>\install.wim:** Defines the location and filename for the captured Windows image file (usually saved as **install.wim**). **<path_to_save_wim>** would be the drive letter of your USB drive (e.g., E:\) or another accessible location.
 3. **/capturedir:C:\:** Specifies the drive containing the Windows installation you want to capture (assuming your Windows installation is on the C: drive).
 4. **/name:"CustomWindows10":** Assigns a descriptive name to the captured image.
- The video highlights the importance of correctly identifying the drive letters within the WinRE environment, as they might differ from the usual Windows environment. You can use commands like **diskpart** and **list volume** to identify the correct drive letters.
- **Image Capture Process:**
 - This process may take a significant amount of time, around 15-20 minutes, depending on the size of your Windows installation and the speed of your storage devices.

4. Integrating the Captured Image into the ISO

- **Downloading and Installing AnyBurn :**
 - **AnyBurn** is a third-party software tool used for working with ISO image files. It is recommending this specific tool for its ease of use in this process.

- **Replacing the install.esd (or install.wim) File:**

- The original Windows 10 ISO image contains a file named install.esd (or sometimes install.wim) which holds the core Windows installation files.
- AnyBurn is used to open the original Windows 10 ISO image and navigate to the sources folder.
- The original install.esd (or install.wim) file is then replaced with the install.wim file that you captured using the DISM command.
- Important Note: If your original ISO contains install.wim, you would replace that instead. The key is to replace the main Windows image file within the sources folder.

- **Creating a New ISO Image:**

- After replacing the install.esd/install.wim file, AnyBurn is used to save the modified content as a new ISO image file. Give it a descriptive name (e.g., CustomWindows10Apps.iso).

5. Testing the Custom ISO

- **Creating a Bootable USB Drive:**

- You'll need to create a bootable USB drive from the newly created custom ISO image. Tools like Rufus or the Windows USB/DVD Download Tool can be used for this purpose.

- **Performing a Clean Installation:**

- Boot your computer from the newly created bootable USB drive and proceed with a clean installation of Windows 10.
- The expectation is that during or after the Windows installation process, the applications that were installed on the captured system will be automatically installed without requiring manual intervention.

6. Hyperlink's

- Download it from Microsoft's official
- <https://www.microsoft.com/en-us/software-download/windows10ISO>
- AnyBurn
- <https://www.anyburn.com/download.php>
- Rufus
- <https://rufus.ie/en/>

7. Reference video

- <https://youtu.be/cHMTvxtdT0Q> By [Buzz2dayTech](#) (Recommend)
- <https://youtu.be/8rOHOQcHZ-4> By [Techno Uplift](#)
- <https://youtu.be/E1ZzerqfPM8> By [Computer Education Unlocked](#)

8. Conclusion

- The benefits of having a custom Windows 10 ISO with pre-installed applications, emphasizing the time savings and convenience for users who frequently install Windows or need to set up multiple systems with the same software.
- The Base build of the windows is same in windows 10 and 11 there for you can try, it in Windows 11