

DoE WinPE USB Tool

What is it?

It is a USB drive that allows you to boot into a temporary environment to allow users to gather logs for incident escalation and to wipe hard disk drives.

How to make the WinPE USB Tool

Pre-requisites:

1. a USB stick of at least 4GB in size.
2. Downloading the required files. Download [DoE-WinPE-v2.zip](#) file by clicking the link.

Method 1 – Formats the whole USB stick to a FAT32 partition.

Note: FAT32 does not allow for single files larger than 3.2gb in size.

Method 2 – Formats 2gb of the USB stick to a FAT32 partition for the WinPE files. It then formats the remaining space of the USB stick to NTFS format as a secondary partition.

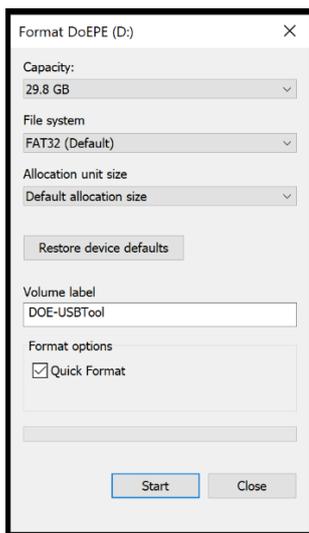
Note:

- *This method is better for larger USB sticks where you want to use most of the space as a more versatile and less limited NTFS partition.*
- *The steps for this method can only be run from a Windows PC that ONLY has a C: drive. **Do NOT** run them on a device with both an existing C: and D: drive*

Method 1 – single FAT32 Partition

Steps:

1. Insert USB drive to be wiped.
2. Go to My Computer/This PC.
3. Right-Click the USB Drive and select Format.
4. In the window that pops up. Make sure **File System** is set to **FAT32**.
5. Make sure **Quick Format** is ticked.



6. Give the drive a name such as **“DoE-USBTool”** in the **Volume Label** section.
7. Press **Start** to format the drive. This will erase all the data on the drive.
8. Open the **DoE-WinPE-USB-V2.zip** and drag and drop ALL of the contents from it into the newly formatted drive to copy the contents to your USB stick.
9. You should now be able to boot from the USB stick.

Method 2 – FAT32 and NTFS partitions

Steps:

1. **WARNING** – Do not do this method on a device that has multiple drives. Only do this on a device that has a single local C: drive – if you run it into a device that has a D: drive, you will erase that drive.
2. Insert the USB stick you wish to format.
3. Open CMD prompt as administrator.
4. Copy this whole section in green and paste it into the CMD window with Ctrl + V.

[Highlight the green text below and press Ctrl-C to copy to the clipboard.]

```
Diskpart
list disk
select disk 1
clean
create partition primary size=2048
format quick fs=fat32 label=WINPE
assign letter=D
create partition primary
format quick fs=ntfs label=Stuff
assign letter=E
exit
```

5. You should now be able to OPEN the **DoE-WinPE-USB-V2.zip** file to COPY the files and folders it contains to the FAT32 D: drive that has just been formatted. This can be done by selecting all files and folders and dragging and dropping them to the USB stick.
6. The stick is now ready for use as a boot device.

How to use the bootable USB drive

Note:

Most devices will not allow you to boot from USB unless you enable it in the BIOS first. If you enable it, you must disable it when you are done.

Steps:

1. Plug in the device before you power on the computer
2. Boot from USB
3. You will be presented with the following:



From the first drop down you can select “**Copy Logs**” or “**Wipe Disk**” and then click the “**RUN**” button to start the action.

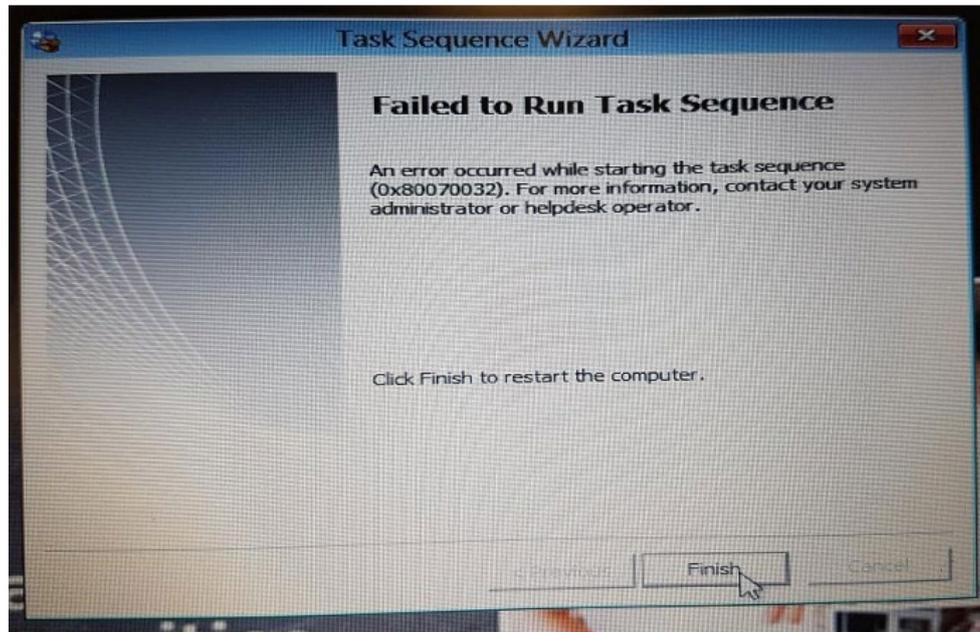
The logs will be copied to a folder called “**DoELogs**” on the same USB stick. This can then be zipped into 1 file to attach to incidents to help with troubleshooting.

The bottom drop down gives the ability open **Command Prompt** and a **File Explorer**.

Failed to Run Task Sequence error when F12-building a device

Scenario :

The following error appears in the first phase of the F12 procedure as soon as it starts to load the WinPE pre-installation environment files.



Error 0x800910007 or similar may otherwise appear.

Possible Resolution:

1. Boot the PC with your **USB WinPE Tool**
2. When the WinPE Utility appears, select **Command Prompt** and click **Open**
3. Type **DISKPART** in this Command Prompt box then press Enter
4. Next, type the following commands shown in bold, pressing Enter after each:
 - a. **select Disk 0**
 - b. **clean**
 - c. **create partition primary**
 - d. **select partition 1**
 - e. **active**
 - f. **format fs=ntfs quick**
 - g. **assign**
5. Reboot PC and run F12 and it should then complete as normal.