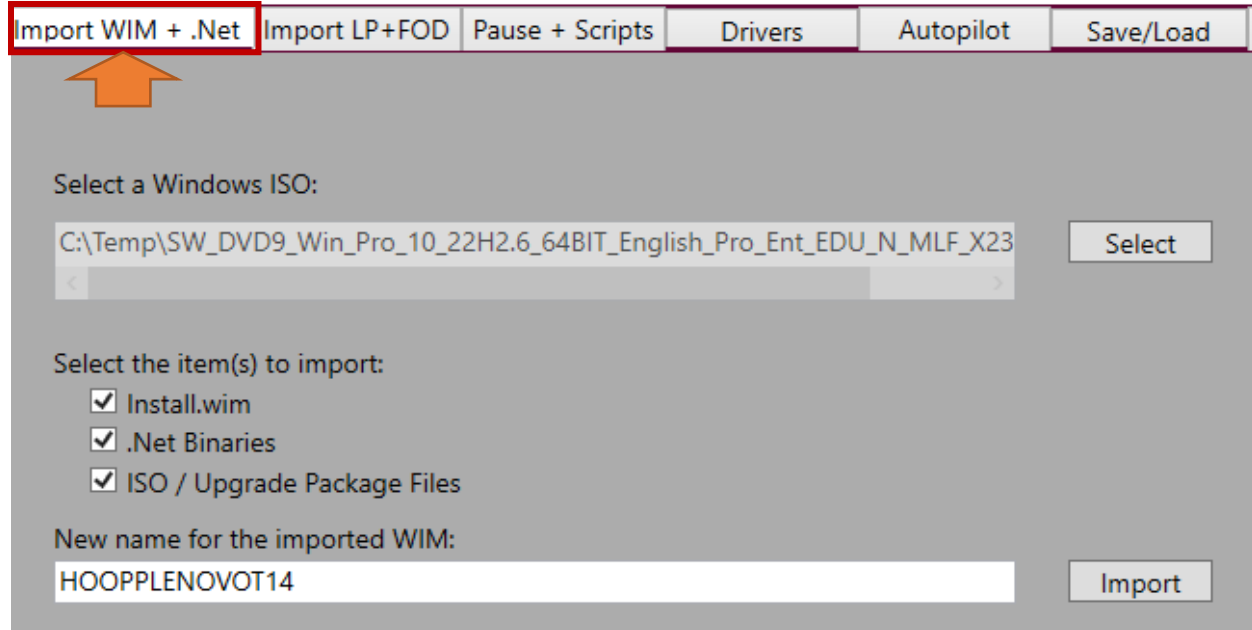


CREATE CUSTOM ISO FOR LENOVO USING WIMWITCH v3.4.6

What is required?

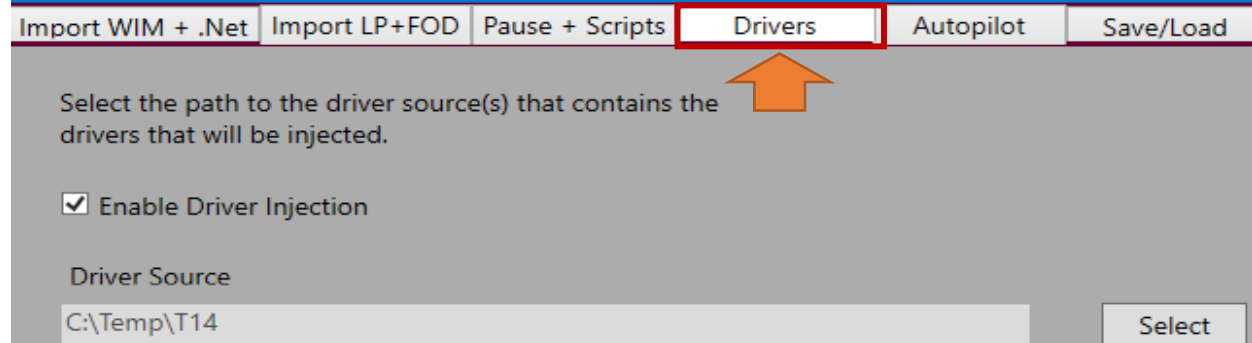
1. Windows 10 ISO – Latest from VLSC
2. Lenovo T14 Drivers
3. ADK – Make sure to install this on the machine you are creating custom ISO
4. WIMWITCH PowerShell Script – Open PS as admin and run the script as `.\wimwitch.ps1`

WIM Witch - 3.4.6



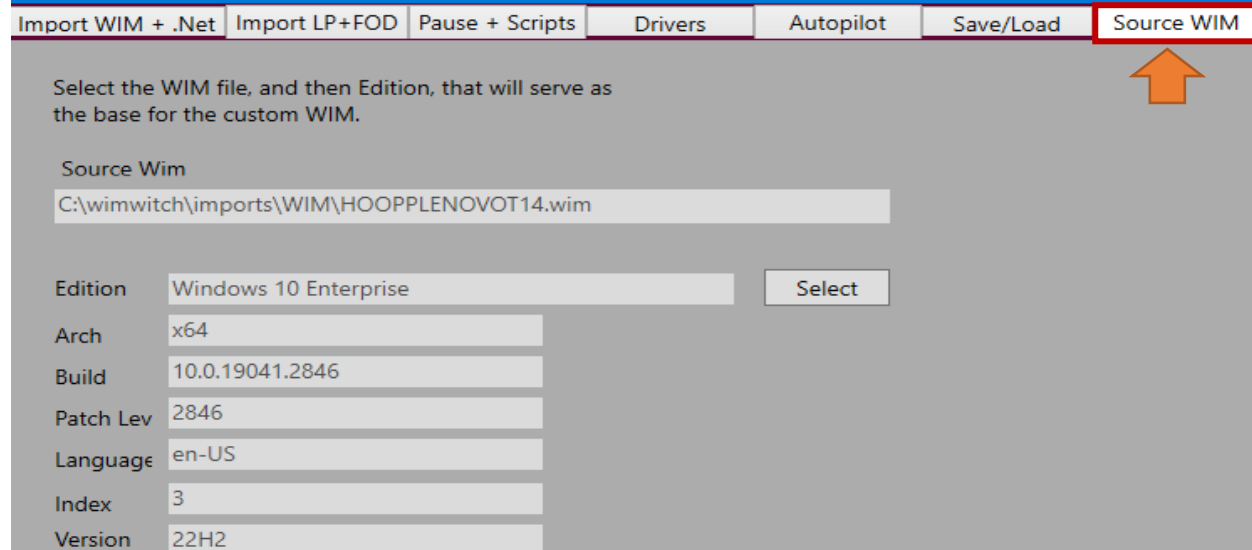
The screenshot shows the 'Import WIM + .Net' tab of the WIM Witch application. The 'Import WIM + .Net' button is highlighted with a red box and an orange arrow pointing to it. Below the tab bar, there is a section for selecting a Windows ISO, with a text box containing the path `C:\Temp\SW_DVD9_Win_Pro_10_22H2.6_64BIT_English_Pro_Ent_EDU_N_MLF_X23` and a 'Select' button. The 'Select the item(s) to import:' section has three checked checkboxes: 'Install.wim', '.Net Binaries', and 'ISO / Upgrade Package Files'. The 'New name for the imported WIM:' section has a text box containing 'HOOPPLENOVOT14' and an 'Import' button.

WIM Witch - 3.4.6

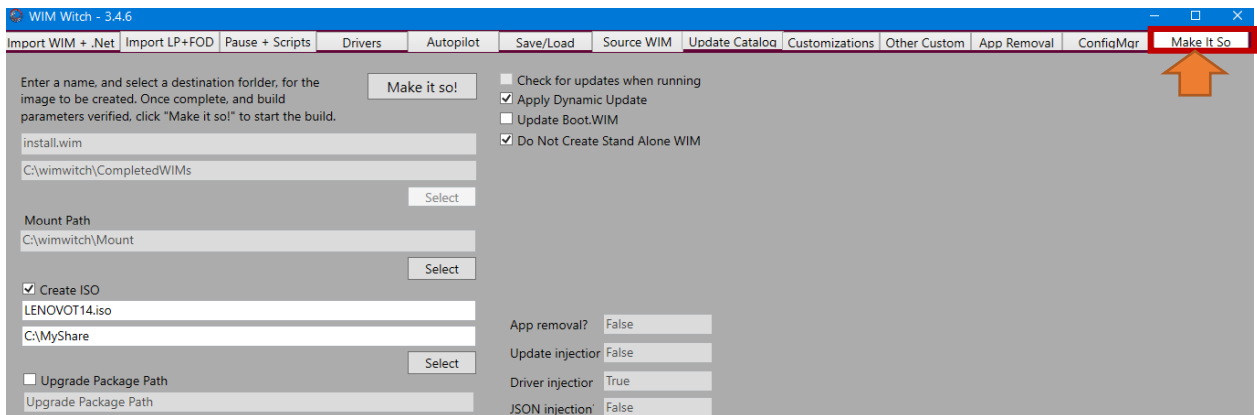
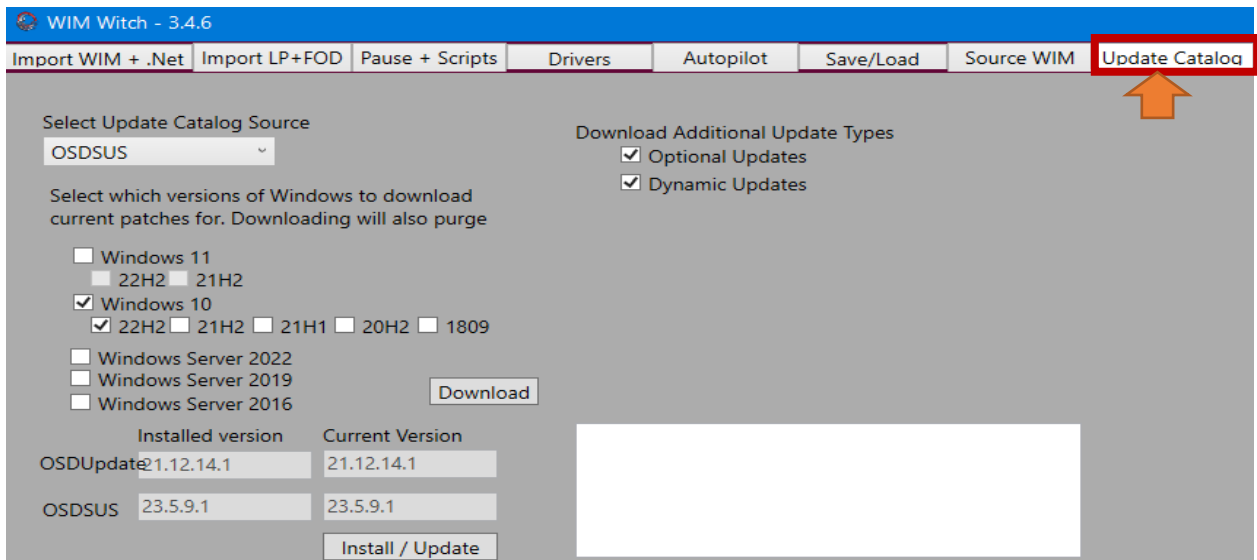


The screenshot shows the 'Drivers' tab of the WIM Witch application. The 'Drivers' button is highlighted with a red box and an orange arrow pointing to it. Below the tab bar, there is a section for selecting the path to the driver source(s), with a text box containing the path `C:\Temp\T14` and a 'Select' button. The 'Enable Driver Injection' checkbox is checked.

WIM Witch - 3.4.6



The screenshot shows the 'Source WIM' tab of the WIM Witch application. The 'Source WIM' button is highlighted with a red box and an orange arrow pointing to it. Below the tab bar, there is a section for selecting the WIM file, with a text box containing the path `C:\wimwitch\imports\WIM\HOOPPLENOVOT14.wim` and a 'Select' button. Below this, there are several input fields for WIM properties: Edition (Windows 10 Enterprise), Arch (x64), Build (10.0.19041.2846), Patch Lev (2846), Language (en-US), Index (3), and Version (22H2).



Below is what you will see within PowerShell when each part is done during the process.

```

Administrator: Windows PowerShell
#####
**** Starting WIM Witch ****
version 3.4.6
#####
WIM Witch starting in C:\wimwitch
Checking for installation status
WIM Witch is installed
Remediating for missing folders if they exist
Created folder: imports\DotNet
Preflight complete. Starting WIM Witch
05/19/2023 20:51:04 Information - Updates folder exists
05/19/2023 20:51:04 Information - Staging folder exists
05/19/2023 20:51:04 Information - Mount folder exists
05/19/2023 20:51:04 Information - CompletedWIMs folder exists
05/19/2023 20:51:04 Information - Configs folder exists
05/19/2023 20:51:04 Information - PowerShell v5 or greater installed.
05/19/2023 20:51:05 Information - Plenty of HDD space available!
05/19/2023 20:51:05 Information - This session is running as admin
05/19/2023 20:51:05 Information - This is a 64 bit PowerShell session
05/19/2023 20:51:05 Information - The currently installed version of WIM Witch is 3.4.6
05/19/2023 20:51:05 Information - Checking for updates from PowerShell Gallery...
05/19/2023 20:51:27 Information - The latest version from the Gallery is 3.4.6
05/19/2023 20:51:27 Information - WIM Witch is up to date. Starting WIM Witch
05/19/2023 20:51:27 Information - ConfigMgr feature disabled
05/19/2023 20:51:27 Information - ConfigMgr not detected
05/19/2023 20:51:27 Information - Skipping ConfigMgr PowerShell module importation
05/19/2023 20:51:27 Information - Setting OSDUSUS as the Update Catalog
05/19/2023 20:51:27 Information - OSDUSUS selected as update catalog
05/19/2023 20:51:27 Information - Getting OSD Installation Information
05/19/2023 20:51:47 Information - Installed version of OSD Update is 21.12.14.1
05/19/2023 20:51:47 Information - Checking for the most current OSDUpdate version available
05/19/2023 20:51:51 Information - 21.12.14.1 is the most current version
05/19/2023 20:51:51 Information - Comparing OSD Update module versions
05/19/2023 20:51:51 Information - OSD Update is up to date
05/19/2023 20:51:51 Information - Getting OSDUSUS Installation Information
05/19/2023 20:51:51 Information - Installed version of OSDUSUS is 23.5.9.1
05/19/2023 20:51:51 Information - Checking for the most current OSDUSUS version available
05/19/2023 20:51:54 Information - 23.5.9.1 is the most current version
05/19/2023 20:51:54 Information - Comparing OSDUSUS module versions
05/19/2023 20:51:54 Information - OSDUSUS is up to date
05/19/2023 20:51:54 Warning - *****
05/19/2023 20:51:54 Warning - Notice to users - WIM Witch has gone End Of Life
05/19/2023 20:51:54 warning - Development and maintenance of WIM Witch
05/19/2023 20:51:55 warning - has been stopped by the owner.
05/19/2023 20:51:55 warning - She should continue to function until the next
05/19/2023 20:51:55 warning - versions of Win10/11 are released.
05/19/2023 20:51:55 warning - Thank you for using this tool.
05/19/2023 20:51:55 warning - I appreciate you!
05/19/2023 20:51:55 warning -
05/19/2023 20:51:55 warning - -Donna Ryan, Mistress of WIM Witch
05/19/2023 20:51:55 warning - January 2023
05/19/2023 20:51:55 warning - *****
05/19/2023 20:51:55 Information - Starting WIM Witch GUI
05/19/2023 20:53:33 Information - C:\Temp\SW_DVD9_Win_Pro_10_22H2_6_64BIT_English_Pro_Ent_Edu_N_MLF_X23-44613.ISO selected as the ISO to import from
05/19/2023 20:53:33 Information - Checking to see if the destination WIM file exists...
05/19/2023 20:53:33 Information - Appending new file name with an extension
05/19/2023 20:53:33 Information - Name appears to be good. Continuing...
05/19/2023 20:53:33 Information - Mounting ISO...
05/19/2023 20:53:48 Information - MSFT_DiskImage (ImagePath = "C:\Temp\SW_DVD9_Win_Pro_10_22H2_6_64BIT..., StorageType = 1)
05/19/2023 20:54:19 Information - Purging staging folder...
05/19/2023 20:54:19 Information - Purge complete.
05/19/2023 20:54:19 Information - Copying WIM file to the staging folder...
  
```

```
Administrator: Windows PowerShell
05/19/2023 20:54:19 Information - Purge complete.
05/19/2023 20:54:19 Information - Copying WIM file to the staging folder...
05/19/2023 20:56:06 Information - Setting file attribute of install.wim to Normal
05/19/2023 20:56:06 Information - Renaming install.wim to HOORPLENOVOT14.wim
05/19/2023 20:56:06 Information - Moving HOORPLENOVOT14.wim to imports folder...
05/19/2023 20:56:06 Information - WIM Importation complete
05/19/2023 20:56:06 Warning - Creating folders...
05/19/2023 20:56:06 Information - Copying .Net binaries...
05/19/2023 20:56:09 Information - Importing ISO/Upgrade Package files...
05/19/2023 20:56:09 Information - Windows 10 detected
05/19/2023 20:56:09 Information - Path does not exist. Creating...
05/19/2023 20:56:09 Information - Copying boot folder...
05/19/2023 20:56:19 Information - Copying efi folder...
05/19/2023 20:56:22 Information - Copying sources folder...
05/19/2023 20:58:23 Information - Copying support folder...
05/19/2023 20:58:26 Information - Copying files in root folder...
05/19/2023 20:58:27 Information - Dismount!
05/19/2023 20:58:28 Information - Dismount complete
05/19/2023 20:58:28 Information - Importing complete
05/19/2023 20:59:00 Information - Driver path selected: C:\Temp\T14
05/19/2023 20:59:39 Information - Importing Source WIM Info
05/19/2023 20:59:59 Information - WIM file selected: C:\wimw\w\imports\WIM\HOORPLENOVOT14.wim
05/19/2023 20:59:59 Information - Edition selected: Windows 10 Enterprise
05/19/2023 20:59:59 Information - Prompting user for Win10 version confirmation...
05/19/2023 21:00:12 Information - User selected 22H2
05/19/2023 21:01:17 Information - ISO directory selected
05/19/2023 21:02:27 Information - C:\wimw\w\Mount is suitable for mounting
05/19/2023 21:02:27 Information - Target WIM file name not in use. Continuing...
05/19/2023 21:02:27 Information - New WIM name is valid
05/19/2023 21:02:27 Information - Checking to see if the staging path exists...
05/19/2023 21:02:27 Information - The path existed, and it has been purged.
05/19/2023 21:02:28 Information - There is sufficient free space.
05/19/2023 21:02:28 Information - Copying source WIM to the staging folder
05/19/2023 21:05:03 Information - Source WIM has been copied to the source folder
05/19/2023 21:05:04 Information - Copied source WIM has been renamed
05/19/2023 21:05:04 Information - Attempting to remove unwanted image indexes
05/19/2023 21:05:05 Information - Found Image C:\wimw\w\Staging\install.wim
05/19/2023 21:05:19 Information - Windows 10 Education is being evaluated
05/19/2023 21:05:19 Information - Deleting Windows 10 Education from WIM
05/19/2023 21:05:24 Information - Windows 10 Education N is being evaluated
05/19/2023 21:05:24 Information - Deleting Windows 10 Education N from WIM
05/19/2023 21:05:29 Information - Windows 10 Enterprise is being evaluated
05/19/2023 21:05:29 Information - Windows 10 Enterprise is the index we want to keep. Skipping.
05/19/2023 21:05:29 Information - Windows 10 Enterprise N is being evaluated
05/19/2023 21:05:29 Information - Deleting Windows 10 Enterprise N from WIM
05/19/2023 21:05:36 Information - Windows 10 Pro is being evaluated
05/19/2023 21:05:36 Information - Deleting Windows 10 Pro from WIM
05/19/2023 21:05:43 Information - Windows 10 Pro N is being evaluated
05/19/2023 21:05:43 Information - Deleting Windows 10 Pro N from WIM
05/19/2023 21:05:50 Information - Windows 10 Pro Education is being evaluated
05/19/2023 21:05:50 Information - Deleting Windows 10 Pro Education from WIM
05/19/2023 21:05:56 Information - Windows 10 Pro Education N is being evaluated
05/19/2023 21:05:56 Information - Deleting Windows 10 Pro Education N from WIM
05/19/2023 21:06:03 Information - Windows 10 Pro for Workstations is being evaluated
05/19/2023 21:06:03 Information - Deleting Windows 10 Pro for Workstations from WIM
05/19/2023 21:06:11 Information - Windows 10 Pro N for Workstations is being evaluated
05/19/2023 21:06:11 Information - Deleting Windows 10 Pro N for Workstations from WIM
05/19/2023 21:06:18 Information - Mounting source WIM C:\wimw\w\Staging\install.wim
05/19/2023 21:06:18 Information - to mount point:
05/19/2023 21:06:18 Information - C:\wimw\w\Mount
05/19/2023 21:23:19 Information - Language Packs Injection not selected. Skipping...
05/19/2023 21:23:19 Information - Local Experience Packs not selected. Skipping...
05/19/2023 21:23:19 Information - Features On Demand not selected. Skipping...
05/19/2023 21:23:20 Information - JSON not selected. Skipping JSON Injection
05/19/2023 21:23:20 Information - Applying drivers from C:\Temp\T14
05/19/2023 21:24:05 Information - Applied C:\Temp\T14\Audio\N38A121W\Dolby\dax3\E\dax3_ext_rtk.inf
05/19/2023 21:24:37 Information - Applied C:\Temp\T14\Audio\N38A121W\Dolby\dax3\F\A\dax3_sw_aposvc.inf
05/19/2023 21:24:59 Information - Applied C:\Temp\T14\Audio\N38A121W\Dolby\dax3\F\H\dax3_sw_hsa.inf
05/19/2023 21:25:24 Information - Applied C:\Temp\T14\Audio\N38A121W\Dolby\dax3\U\dax3_ext_usb.inf
05/19/2023 21:25:46 Information - Applied C:\Temp\T14\Audio\N38A121W\Dolby\fusion\A\fusion_ext_amic.inf

Administrator: Windows PowerShell
05/19/2023 23:56:23 Information - Applied C:\Temp\T14\Wireless\N3BW210W\Driver\Fw\QuectelFwUpdateDriverEM05G.inf
05/19/2023 23:57:08 Information - Applied C:\Temp\T14\Wireless\N3BW210W\Driver\MiniDprService\MiniDprService.inf
05/19/2023 23:57:47 Information - Applied C:\Temp\T14\Wireless\N3CW114W\FiboConfigSrv\FiboConfigSrvEx.inf
05/19/2023 23:58:34 Information - Applied C:\Temp\T14\Wireless\N3CW114W\FwUpdateDriver\FwUpdateDriver.inf
05/19/2023 23:59:18 Information - Applied C:\Temp\T14\Wireless\N3CW114W\GNSSDriver\IntelGNSSDriver.inf
05/20/2023 00:00:08 Information - Applied C:\Temp\T14\Wireless\N3CW114W\UDEDriver\ModemControl.inf
05/20/2023 00:00:49 Information - Applied C:\Temp\T14\Wireless\N3CW114W\UDEDriver\Ude.inf
05/20/2023 00:00:49 Information - Completed driver injection from C:\Temp\T14
05/20/2023 00:00:49 Information - Default Application Association not selected. Skipping...
05/20/2023 00:00:49 Information - Start Menu Layout injection not selected. Skipping...
05/20/2023 00:00:49 Information - Registry file injection not selected. Skipping...
05/20/2023 00:00:49 Information - Updates not enabled
05/20/2023 00:00:49 Information - OneDrive agent update skipped as it was not selected
05/20/2023 00:00:49 Information - App removal not enabled
05/20/2023 00:00:49 Information - Attempting to copy log to mounted image
05/20/2023 00:00:49 Information - Log file copied successfully
05/20/2023 00:00:49 Information - Dismounting WIM file, committing changes
05/20/2023 00:24:07 Information - WIM dismounted
05/20/2023 00:24:11 Information - New image version number is 10.0.19041.2846
05/20/2023 00:24:11 Information - Creating staging folder for media
05/20/2023 00:24:11 Information - Media staging folder has been created
05/20/2023 00:24:11 Information - Staging media binaries...
05/20/2023 00:25:22 Information - Media files have been staged
05/20/2023 00:25:22 Information - Exporting install.wim to media staging folder...
05/20/2023 00:31:14 Information - Prompting user for Win10 version confirmation...
05/20/2023 07:31:49 Information - User selected 22H2
05/20/2023 07:31:49 Warning - C:\wimw\w\updates\Windows 10\22H2\Dynamic\ does not exist. There are no updates of this class to apply
05/20/2023 07:31:49 Information - Updating Boot.WIM skipped or not applicable
05/20/2023 07:31:49 Information - Upgrade Package skipped or not applicable
05/20/2023 07:31:49 Information - Appending new file name with an extension
05/20/2023 07:31:49 Information - Starting to build ISO...
05/20/2023 07:40:50 Information - ISO has been built
05/20/2023 07:40:50 Information - Clearing staging folder...
05/20/2023 07:40:54 Information - Copying build log to target folder
05/20/2023 07:40:55 Information - Log copied successfully
05/20/2023 07:40:55 Information - Job's done.
```


```
C:\Program Files (x86)\Windows Kits\10\Assessment and Deployment Kit\Deployment Tools\amd64\Oscdimg\oscdimg.exe
OSCDIMG 2.56 CD-ROM and DVD-ROM Premastering Utility
Copyright (C) Microsoft, 1993-2012. All rights reserved.
Licensed only for producing Microsoft authorized content.

Scanning source tree (500 files in 41 directories)
Scanning source tree complete (907 files in 86 directories)

Computing directory information complete

Image file is 7473561600 bytes

Writing 907 files in 86 directories to C:\MyShare\LENOVOT14.iso
99% complete
```

Name	Date modified	Type	Size
 LENOVOT14.iso	20-May-2023 7:40 AM	WinRAR archive	7,300,364 KB

With the above steps we have created a custom ISO for Lenovo T14 system

Thanks

Ram

20th May 2023