

EUC Lite Touch Windows Imaging

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On this page:

Overview
Requirements
Boot Mode
Supported Models
Windows 11 (x64)
Types of Configuration
Procedure
Troubleshooting



Before imaging a computer, please make sure that any needed files have been copied to another device. Imaging will format the drive and all data will be lost.

Overview

EUC Lite Touch imaging is used for deploying a fresh copy of Windows to a computer. You can boot into EUC Lite Touch via PXE booting (see instructions below) or booting from a USB drive created using the boot image located here:

\\w92wds2\ditrdeployment\$\boot

During EUC Lite Touch you'll have the ability to add additional applications and join the WIN domain. You'll have the option to select from multiple versions of Windows.

Please email euc-help@mit.edu if you would like to be granted access.

Requirements

- PC needs to be plugged in to a wired network.
- Your computer will need to have the wired NIC registered for DHCP before being able to PXE boot. You can register the MAC address here: <https://nic.mit.edu/cgi-bin/hlreg>.
- Onboard NIC is in the boot sequence (F12) and that it's enabled with PXE in the BIOS.

Boot Mode

Should I boot my computer in BIOS (Legacy) mode or UEFI mode?

Supported Models

Currently, the drivers for the following models are configured for injection during imaging. Driver pack version is listed in parentheses when available.

Windows 11 (x64)

Dell Models	Lenovo Models	Microsoft Models	Intel
Latitude 3420 (A03) Latitude 3379 (A07)	ThinkCentre M83 (21 Sep 2015) ThinkCentre M900 (20 Dec 2016)	Surface 3 Surface Book	NUC8i3BEH NUC7CJYS

Latitude 5285 (A03)	ThinkCentre M910s (19 Nov 2017)	Surface Book 2	NUC10i3FNH NUC10i3FNK NUC8i5BESB
Latitude 5400 (A00)	ThinkCentre M910t (21 Jan 2021)	Surface Book 3	
Latitude 5401 (A05)	ThinkCentre M920s (05 Aug 2018)	Surface Laptop	
Latitude 5410 (A01 - Win 11)	ThinkPad E14 (16 July 2020)	Surface Laptop 2	
Latitude 5411 (A02 - Win 11)	ThinkPad P1	Surface Laptop 3	
Latitude 5420 (A11 - Win 11)	ThinkPad P1 Gen 2 (01 Apr 2020)	Surface Laptop 4	
Latitude 5421 (A01)	ThinkPad P1 Gen 3 (23 Nov 2021)	Surface Laptop 5 (Win 11)	
Latitude 5430 (A08 - Win 11)	ThinkPad P1 Gen 5 (02 May 2023)	Surface Pro	
Latitude 5431 (A05 - Win 11)	ThinkPad P15s Gen1 (04 Feb 2021)	Surface Pro 2	
Latitude 5440 (A02 - Win 11)	ThinkPad P15 Gen 2i (01 Mar 2022)	Surface Pro 3	
Latitude 5480 (A12)	ThinkPad P16s Gen 1 (10 Jan 2023 - Win 11)	Surface Pro 4	
Latitude 5490 (A12)	ThinkPad P43s (19 Nov 2019)	Surface Pro 6	
Latitude 5500 (A01)	ThinkPad P50s (12 Nov 2017)		
Latitude 5510 (A04)	ThinkPad P51s (20 Jun 2019)		
Latitude 5520 (A03)	ThinkPad P52s (07 Nov 2018)		
Latitude 5521 (A01)	ThinkPad P52 (07 Nov 2018)		
Latitude 5530 (A08 - Win 11)	ThinkPad P53 (15 Oct 2020)		
Latitude 5531 (A09 - Win 11)	ThinkPad P72 (07 Nov 2018)		
Latitude 5400 (A00 - Win 11)	ThinkPad P70 (04 Feb 2020)		
Latitude 5540 (A02 - Win 11)	ThinkPad S1 Yoga 12 (06 Jul 2017)		
Latitude 5580 (A06)	ThinkPad T14s (18 May 2020)		
Latitude 5590 (A08)	ThinkPad T15 Gen 2 (10 Jan 2023 - Win 11)		
Latitude 7280 (A15)	ThinkPad T16 Gen 1 (05 Mar 2023)		
Latitude 7285 (A04)	ThinkPad T440 (17 Nov 2016)		
Latitude 7290 (A15)	ThinkPad T440s (17 Nov 2016)		
Latitude 7300 (A00 - Win 11)	ThinkPad T450 (14 Dec 2017)		
Latitude 7310 (A05)	ThinkPad T450s (14 Dec 2017)		
Latitude 7320 (A01)	ThinkPad T460s (07 Feb 2020)		
Latitude 7330 (A08 - Win 11)	ThinkPad T470s (05 Apr 2018)		
Latitude 7340 (A00 - Win 11)	ThinkPad T480s (17 Nov 2021 - Win 11)		
Latitude 7390 (A12)	ThinkPad T490s (28 Feb 2023 - Win 11)		
Latitude 7400 (A07)	ThinkPad T495 (16 July 2020)		
Latitude 7410 (A03 - Win 11)	ThinkPad T550 (09 Jul 2017)		
Latitude 7420 (A06 - Win 11)	ThinkPad T560 (12 Nov 2017)		
Latitude 7430 (A05 - Win 11)	ThinkPad T570 (08 Apr 2018)		
Latitude 7440 (A00 - Win 11)	ThinkPad T580 (31 May 2018)		
Latitude 7480 (A14)	ThinkPad T590 (26 May 2019)		
Latitude 7490 (A13)	ThinkPad W540 (09 Jul 2017)		
Latitude 7530 (A06 - Win 11)	ThinkPad W541 (09 Jul 2017)		
Latitude 9330 (A03 - Win 11)	ThinkPad X1 Carbon 4th Gen (05 Dec 2017)		
Latitude 9430 (A02)	ThinkPad X1 Carbon 5th Gen (08 Apr 2018)		
Latitude 9520 (A04)	ThinkPad X1 Carbon 6th Gen (05 Feb 2018)		
Latitude E5450 (A07)	ThinkPad X1 Carbon 7th Gen (02 Apr 2020)		
Latitude E5470 (A14)	ThinkPad X1 Carbon 8th Gen (29 Jul 2020)		
Latitude E6430 (A03)	ThinkPad X1 Carbon 9th Gen (07 Sep 2021)		
Latitude E6440 (A03)	ThinkPad X1 Carbon 10th Gen (01 May 2023 - Win 11)		
Latitude E6540 (A03)	ThinkPad X1 Carbon Gen 11 (18 Sep 2023 - Win 11)		
Latitude E7240 (A03)	Thinkpad X1 Extreme Gen 4i (15 Jul 2022)		
Latitude E7250 (A06)	ThinkPad X1 Tablet Gen 2 (08 Apr 2018)		
Latitude E7270 (A14)	ThinkPad X1 Tablet Gen 3 (08 Nov 2018)		
Latitude E7440 (A03)	ThinkPad X1 Yoga 1st (02 May 2019)		
Latitude E7450 (A06)	ThinkPad X1 Yoga 2nd (02 May 2019)		
Latitude E7470 (A08)	ThinkPad X1 Yoga 3rd (03 Oct 2019)		
Optiplex 3000 (A01)	ThinkPad X1 Yoga 4th		
Optiplex 3050 (A13)	ThinkPad X1 Yoga 5th (13 Nov 2020)		
Optiplex 3060 (A00 - Win 11)	ThinkPad X13 Yoga Gen 1 (09 Dec 2020)		
Optiplex 3070 (A00 - Win 11)	ThinkPad X13 Yoga Gen 2 (19 Jul 2022)		
Optiplex 3090 (A01)	ThinkPad X240 (17 Nov 2016)		
Optiplex 3280 AIO (A04)	ThinkPad X260 (22 Jun 2017)		
OptiPlex 5000 (A01)	ThinkPad X270 (17 Apr 2018)		
Optiplex 5050 (A07)	ThinkPad X380 Yoga (08 Jul 2019)		
Optiplex 5070 (A07)	ThinkStation P350 Tiny (20 May 2022 - Win 11)		
Optiplex 5090 (A02)	ThinkStation P410 (17 Jul 2017)		
Optiplex 7000 (A03)	ThinkStation P520 (22 Jul 2018)		
Optiplex 7010 (A01)			
Optiplex SFF Plus 7010 (A03 - Win 11)			
Optiplex 7020 (A03)			
Optiplex 7040 (A10)			
Optiplex 7050 (A13)			
Optiplex 7060 (A01 - Win 11)			
Optiplex 7070 (A00 - Win 11)			
Optiplex 7070 Ultra (A09)			

Optiplex 7071 (A00 - Win 11)	ThinkStation P520C (16 Aug 2019)	Surface Pro 7	NUC5i7RYB
Optiplex 7080 (A08 - Win 11)	ThinkStation P620 (17 Mar 2023 - Win 11)	Surface Pro 8	NUC11TNHi3
Optiplex 7090 (A03 - Win 11)	ThinkStation P920 (24 Jul 2018)	Surface Pro 9 (Win 11)	
Optiplex 7410 AIO (A05 - Win 11)			
Optiplex 7440 AIO (A10)			
Optiplex 7450 AIO (A00)			
Optiplex 7460 AIO (A07)			
Optiplex 7760 AIO (A03)			
Optiplex 7770 AIO (A03)			
Optiplex 7780 AIO (A05)			
Optiplex 9020 (A04)			
Optiplex 9020 AIO (A03)			
Optiplex 9030 AIO (A03)			
Precision 3260 (A05 - Win 11)			
Precision 3450 (A01)			
Precision 3460 (A00)			
Precision 3480 (A03 - Win 11)			
Precision 3490 (A00 - Win 11)			
Precision 3510 (A12)			
Precision 3520 (A06)			
Precision 3541 (A07)			
Precision 3560 (A02)			
Precision 3581 (A01 - Win 11)			
Precision 3650 Tower (A01)			
Precision 3660 Tower (A03)			
Precision 3680 Tower (A00 - Win 11)			
Precision Tower 3430 (A02)			
Precision Tower 3620 (A12)			
Precision Tower 3630 (A16)			
Precision Tower 3640 (A03)			
Precision Tower 5810 (A05)			
Precision Tower 5820 (A14)			
Precision Tower 782 (A07)			
Precision Tower 7820 (A00)			
Precision Tower 7910 (A06)			
Precision Tower 7920 (A16)			
Precision Tower 7960 (A00-Win11)			
Precision 3571 (A02)			
Precision 5470 (A04 - Win 11)			
Precision 5510 (A13)			
Precision 5520 (A05)			
Precision 5540 (A01)			
Precision 5550 (A03)			
Precision 5560 (A02)			
Precision 5680 (A00 - Win 11)			
Precision 5750 (A00)			
Precision 5570 (A04)			
Precision 7510 (A12)			
Precision 7540 (A05)			
Precision 7550 (A04)			
Precision 7560 (A01)			
Precision 7670 (A04 - Win 11)			
Precision 7760 (A00)			
Precision 7780 (A01)			
Precision M4700 (A02)			
Precision M4800 (A03)			
Precision T7600 (A01)			
XPS 13 L321X (A01)			
XPS 13 L322X (A01)			
XPS 13 7390 (A01)			
XPS 13 9305 (A02)			
XPS 13 9310 (A02)			
XPS 13 9310 2-in-1 (A04)			
XPS 15 9510 (A07)			
XPS 13 9315 (A01)			
XPS 13 9320 (A06 - Win 11)			
XPS 13 9333 (A01)			
XPS 13 9343 (A04)			
XPS 15 7590 (A00 - Win 11)			
XPS 15 9315			
XPS 13 9350 (A10)			
XPS 13 9360 (A07)			
XPS 15 9530 (A01)			

XPS 15 9520 (A04)			
XPS 15 9550 (A12)			
XPS 15 9560 (A06)			
XPS 15 9570 (A00)			
XPS 17 9700 (A01)			
XPS 17 9720 (A05 - Win 11)			

Dell provides [driver files in a CAB file](#) for each model. Lenovo also provides [driver packs](#). If the model of computer you would like to image is not listed here, please send a request to euc-help@mit.edu and we will load the driver pack for you if it's available. We will need to know the exact model number. You will need to run the following command to identify the exact model.

- Dell, HP, Microsoft - run command in quotes, "wmic csproduct get name"
- Lenovo - run command in quotes, "wmic csproduct get version" and "wmic csproduct get name"

Send the output of the commands to EUC. If there is not already an operating system on the computer, boot to EUC Lite Touch and press F8. This will open up a command prompt where you can run these commands.

Types of Configuration

- **Enterprise - Recommended**
 - **Windows 11 Enterprise (x64) v(N)**
- **Enterprise - Not Recommended**
 - **Windows 11 Enterprise (x64) v(N-1)**

1. Installs OS
2. Creates local admin account "mitadm"
3. Sets serial number as hostname
4. Optionally you can select to install additional software packages after choosing your task sequence. Select the **Standard MIT Bundle** and/or individually select any of the following (green text indicates already part of Standard MIT Bundle):
 - 7-Zip
 - Adobe Creative Cloud
 - **Adobe Acrobat Reader**
 - Audacity
 - BrioQuery (includes Oracle Core)
 - **CertAid**
 - Cisco Webex Meetings
 - **CrashPlan**
 - CrowdStrike Falcon Sensor
 - **Dropbox**
 - Filemaker Pro
 - **Firefox ESR**
 - **GlobalProtect VPN Client (with Connect Before Logon)**
 - **Google Chrome**
 - Java - AdoptOpenJDK
 - Kerberos for Windows
 - **Microsoft Office**
 - Microsoft .NET Framework 3.5
 - **MIT WAUS Settings**
 - MIT CA
 - Paint.NET
 - PuTTY
 - SAP GUI
 - SAP R3 IXOS Open Text Viewer
 - SecureCRTFX x64
 - **Slack**
 - **Sophos Central Antivirus**
 - **Spirion**
 - Tableau Reader
 - VLC
 - **Zoom Client for Meetings**

Procedure



Please be aware that this imaging process will wipe out any existing data on the first physical drive that is available on the computer. So, if the computer has two partitions on one physical drive, i.e. C: Drive and D: drive, then both partitions will be wiped out and the disk will be formatted as one single C: drive partition.

Before attempting to image your computer you will need register the MAC of the NIC if you haven't already done so:

<https://nic.mit.edu/cgi-bin/hlreg?>

1. Select **Onboard NIC**.
2. Select **Boot WIN.MIT.EDU WDS** from the iPXE boot menu (you will not see this screen if you are booting in UEFI mode)

```

                                iPXE boot menu for
----- Operating systems -----
Boot WIN.MIT.EDU WDS
Boot VMware ESX 4.1
Boot RHEL-5.1 (64-bit, IS&T Internal Use)
Boot Debathena
----- Tools and utilities -----
Load GParted Live
----- Advanced options -----
Configure settings
Drop to iPXE shell
Reboot computer

Exit iPXE and continue BIOS boot
```

3. When it gets to the Windows Boot Manager, choose **EUC Lite Touch**.

```

Windows Boot Manager (Server IP: 18.7.14.84)

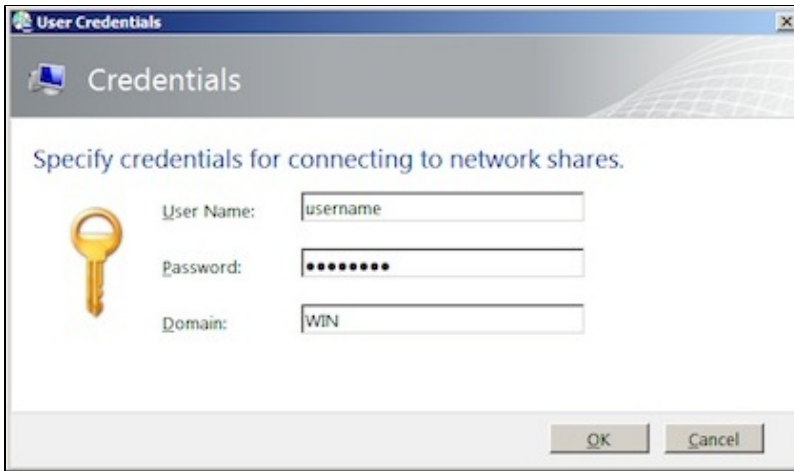
Choose an operating system to start:
(Use the arrow keys to highlight your choice, then press ENTER.)

EUC Lite Touch >
Windows 10 (x64)
Server 2016 Install
Windows 10 Diagnostics & Recovery (x64)
Windows Server 2019 (1809)
Windows 8.1/Server 2012 R2 Install (x64)

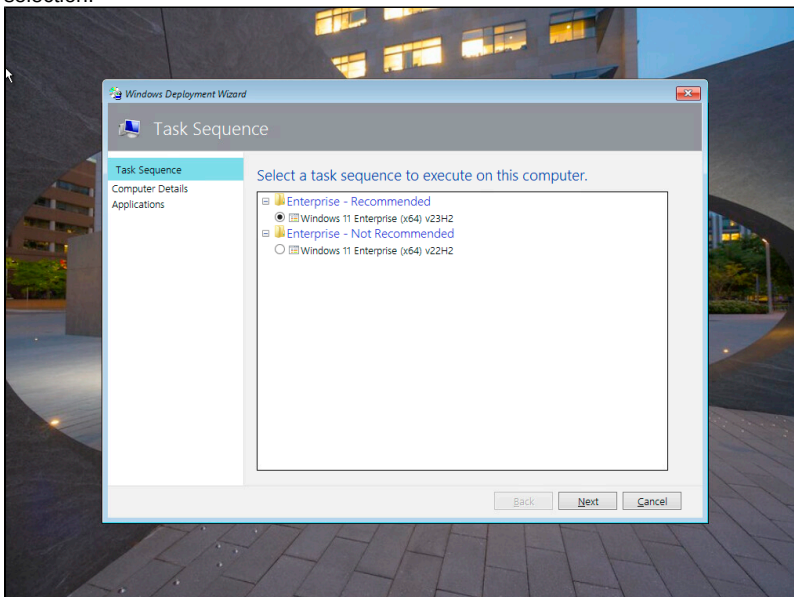
To specify an advanced option for this choice, press F8.
Seconds until the highlighted choice will be started automatically: 28

ENTER=Choose                                ESC=Exit
```

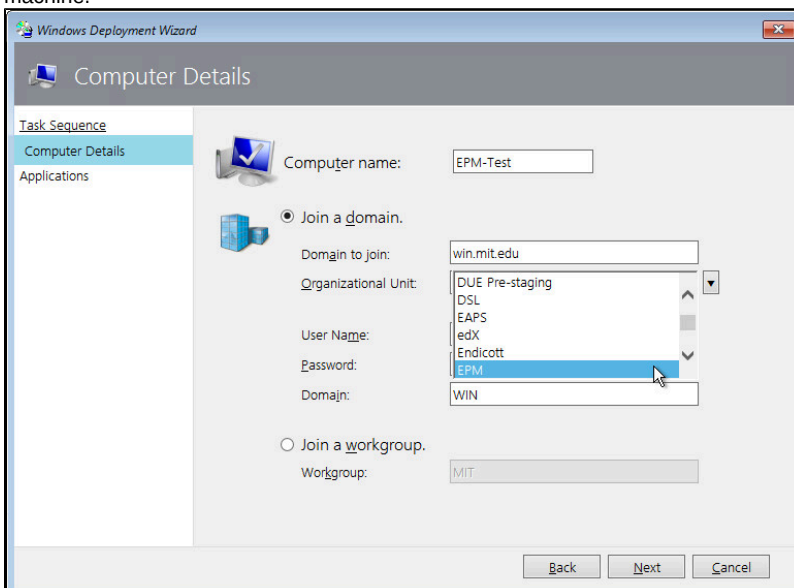
4. Type in your MIT Kerberos account ID and Password.



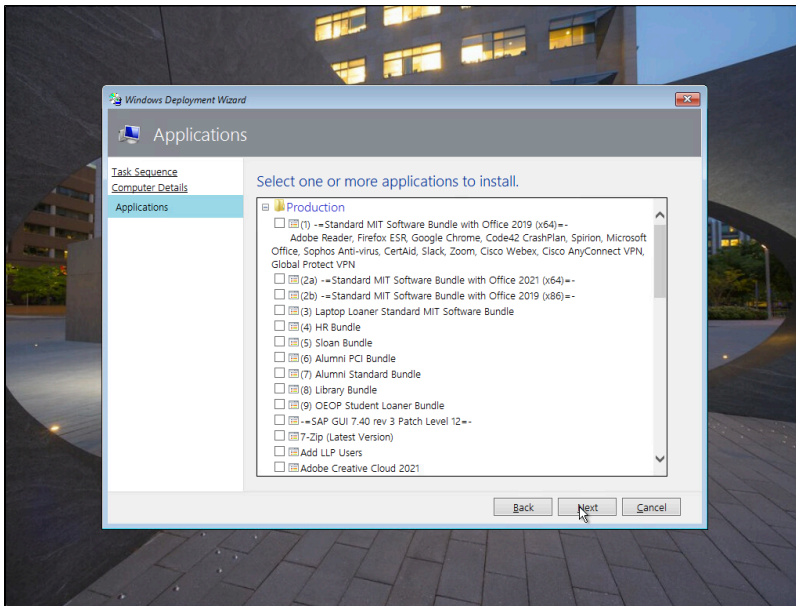
5. You'll need to select a task sequence and then click **Next**. The recommended version of Windows 11 Enterprise (x64) is the default selection.



6. You can choose to join a computer to the domain at this step. If you've already pre-created your computer object in AD using ADUC, then simply type your target computer name. Or if you're joining the computer to the domain under an Endpoints OU, then select your OU from the drop-down menu (computer is automatically placed in the target OU). Or you can choose to leave the computer as a standalone machine.



7. Choose the applications that you would like to install from the list and then click **Next**. The imaging process will start.



8. The computer will go through several reboot cycles as the software is installed. Microsoft updates for both OS and Microsoft applications will be downloaded and applied during the installation process. This will result in a fully patched and update-to-date system.

Troubleshooting

Please visit our [troubleshooting article](#) for more information on common issues (you will need to be logged in to the KB.)