

This is a follow on to a post I created in 2022 - <https://www.edugeek.net/forums/topic/207320-capturing-windows-11-with-mdt-how-i-did-it/>

Deploying W11 is straight forward enough with MDT and scripts can be used to fine tune your deployment.

Many people say you don't need to capture golden images any more (and it's a valid point) but circumstances vary and sometimes a capture is required e.g. you have legacy apps that won't deploy by other means or you don't want to deploy SIMS via SOLUS to 100 plus computers.

This is what worked for me to capture an image based on W11 2024LTSC i.e. 24H2 – hopefully it will help anyone who is stuck.

Configuration:

Hyper-V Virtual server running Server 2019 (also confirmed this method works on 2022)

MDT version 6.3.8456.1000

Latest available ADK and the 'boot loop' hotfix in the second link.

<https://docs.microsoft.com/en-us/windows-hardware/get-started/adk-install>

<https://support.microsoft.com/en-gb/topic/windows-10-deployments-fail-with-microsoft-deployment-toolkit-on-computers-with-bios-type-firmware-70557b0b-6be3-81d2-556f-b313e29e2cb7>

W11 Enterprise LTSC 2024 imported as an operating system in MDT (I don't subscribe to the 'LTSC versions are only for nuclear power stations' view – it comes with much of the MS bloatware removed and our computer replacement cycles are 5 plus years)

Hyper-V Gen 2 virtual computer with Secure Boot and TPM options turned off.

Prepare MDT/WDS Environment:

Update the deployment share, fully regenerate boot images, and import the new boot image into WDS.

Create 'Capture' Task Sequence using the Windows 11 operating system.

Edit the Capture TS to include the following two 'run command line' steps between 'Add Mass storage drivers' and 'Execute Sysprep';

```
cmd /c reg add "HKLM\SOFTWARE\Policies\Microsoft\Windows\Appx" /v "AllowDeploymentInSpecialProfiles" /t "REG_DWORD" /d "1" /f
```

```
cmd.exe /c powershell.exe -executionpolicy bypass -file "%SCRIPTROOT%\fixsysprep.ps1"
```

Where 'fixsysprep.ps1' is the script provided by Microsoft to get around OneDrive breaking Sysprep, as per this comment by JonathanConway77 on 2/3/2022 in <https://docs.microsoft.com/en-us/answers/questions/596112/windows-111-mdt-sysprep-failure-onedrive.html?page=2&pageSize=10&sort=oldest>

Prepare your reference machine:

Install OS

Install any required apps

Run Windows Update until no further updates are found.

Open elevated command prompt, type “manage-bde -off C:” and let decryption finish (I experienced that even if bit locker isn’t showing as active in GUI, Sysprep still fails if you don’t do this).

Set GPT attributes as per the bottom of this article <https://learn.microsoft.com/en-us/troubleshoot/mem/configmgr/os-deployment/windows-11-image-capture-fail> Even if the “no default drive letter” is set to ‘NO’ run the GPT attributes=0x0000000000000000 on the C: volume anyway.

Capture the image method 1:

In my case I launch the capture TS created above by opening [\\MDT-Server\deploymentshare\\$\scripts and running the BDD_Autorun.wsf](#) script and choosing the relevant capture TS via the wizard.

If you haven’t the GPT attributes on the volume being captured then you might experience this -

After the ‘Execute Sysprep’ step of the TS, your VM reboots, opens the ‘choose TS wizard’, and fails to proceed to the ‘Create WIM’ step.

To fix this I did the following

Cancelled the TS until I was back in command prompt (with drive letter X) and did the following in diskpart

list disk

select disk 0

select part 3

assign letter=c

exit

Then ran “startnet.cmd” from the command line (as per

https://www.reddit.com/r/MDT/comments/q2vovd/anyone_try_windows_11_yet/hg9hpt6/)

After that the capture worked (with just two warnings about creating WebService class)

Import captured WIM to MDT and then deploy with standard TS.

Capture the image method 2:

If you use WDS to PXE boot your reference machine and capture the image then the following worked for me;

Import the boot image for your W11 OS iso of choice (Sources\boot.wim) into ‘Boot Images’.

Right mouse click on that boot image and select ‘create capture image’

Give your capture machine an additional non-booting disk drive and label it something like ‘capture’.

Sysprep your capture machine and shut it down/restart.

PXE boot your capture machine and select the capture boot image.

Work your way through the capture wizard, saving the capture .wim file to the additional disk created above and copying the .wim file to your WDS server.

(If the ‘select drive to capture’ drop down doesn’t list C:\ then either Sysprep failed or you haven’t set GPT attributes)

Once the .wim has been copied to your WDS server then import it into MDT in the usual way (if this process fails you can export the .wim from WDS and import into MDT using the 'custom wim' option).