MDT

How to Import Windows Updates in the Windows reference Image from the MDT

Setup your Reference Image

The first step is to deploy Windows Image from your MDT as a Virtual Machine. You can follow the guides base on your infrastructure.

[How Deploy Windows image using MDT and WDS in Windows Server 2016 (Part 1)](#)

OR

[How to Deploy a Windows 10 Custom Image with MDT](#)

- When the new Virtual Machine from your Reference Image is ready and has Internet access you must install the Powershell module **PSWindowsUpdate**.
- Open a Powershell and type the following command
  Install-Module PSWindowsUpdate
- You will get a warning but just click Yes.
- Now type ***Get-WindowsUpdate***
- Wait until receive the **Windows Updates** that must be install and you will get a list.

- Open the **Microsoft Update Catalog** and download the Windows Updates which are missing base on the KB and the Windows OS that you have.

- After you have download all the Windows Updates we are ready to add in your Image.

How to Add Windows Updates Packages in your Image

- Login in your Server with the **MDT**
- Create a folder with a name that you are prefer to copy the files that will be use.
- Go in **Operating System folder from MDT (Deployment Shares)** with your image that you want to import the Windows Updates.
- In my scenario is the **Windows Server 2016 Std**
- Open the folder **sources** and copy the files **boot.wim** and **install.wim** in the folder that created above. For me is the **win2016 folder.**

- Create a subfolder into the **win2016 folder** as **updates** or whatever you want and copy the **Windows Updates** that you have downloaded.
- Open a **powershell** command as **administrator**
- Type **Get-WindowsImage C:\win2016\install.wim**
- You can see the 4 different options that included in this Windows Image.

MDT

- Let's remove all the options except **Windows Server 2016 Std**
- Type **Remove-WindowsImage -ImagePath c:\win20016\install.wim -index 1**
- The **-index** is the number of the **ImageIndex** from the different options

- After remove the first option type again **Get-WindowsImage C:\win2016\install.wim** and remove the unecessary options base on the **ImageIndex**
- Now i have only the **Windows Server Standard** option.

- You can keep any Version of the Windows Server base on your requirements.
- Just be careful the **ImageIndex** number to be the right one when remove the options.
- Now let's create a new folder.
- Type **mkdir c:\offline**

- We will use the offline folder to mount the Windows image and after add the Windows Updates
- So type **Mount-WindowsImage -ImagePath c:\win2016\install.wim -Index 1 -Path c:\offline**
- Wait until finish

- Go in offline folder and you will see all the Windows folders after setup the Windows Server 2016

- Now it's time to add the **Windows updates**
- Type
- ***Add-WindowsPackage -Path C:\offline -PackagePath C:\win2016\updates***
- Wait until finish the import.
- The time depends of the windows updates size and the Server\Workstation performance

- When the import of the Windows updates finished successful we must Dismount the Image
- Type the following command
  Dismount-WindowsImage -Path c:\offline -Save
- The time to dismount the image depends from the Windows Updates which import and the Performance

- When finish successful it's time to Import all the changes in the MDT

How to Import the Windows Image back to your MDT

Until now we have done the following:

1. Setup if you don't have already the Reference Image to identify which updates must download.
2. We have downloaded the required Windows Updates from the Microsoft Update Catalog,
3. We use DISM commands to import Windows Updates in the Windows Image that already have imported in MDT.

Now we need to proceed with the following tasks:

1. Replace the **install.wim** and **boot.wim** in the Windows Image
2. Re-Import the Windows Image in MDT
3. Change the Task Sequence

So let's proceed with the above tasks

- Right click in the Operating System that you want to replace with the new up to date and select Properties
- Check the Path.

- Copy and paste the folder in your Download folder
- Copy the **install.wim** and **boot.wim** that we use to import the Windows updates in the source folder of the Windows Image that copy in your Download folder

- Delete the Operating System that you have import in MDT

- Import the Windows Image in your Download folder with the new files **install.wim** and **boot.wim** in **MDT.**
- **I wrote an article** [Building a Custom Windows ISO with MDT 2013](https://www.ictweetjes.nl) that you can find how can import the Operating System
- After import the Windows Image go In the **Task Sequence** that you have already created for the previous Operating System.
- Click in **Task Sequence** Tab

- Expand the **Install** folder
- Select the **Install Operating System**. In the right side click **Browse**

- Select the **Operating System** which imported.
- Click **OK**

Now you are ready to Deploy the updated Windows Image.

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