

Installing and Using WIM Witch

In this post, I will show you how to install, configure and use WIM Witch for creating, driver injection, patching, updating and removing application within WIM. The application is available here..

<https://github.com/thenotoriousdrr/WIM-Witch>

I have created a folder in the root of C. It is called WIMWitch. I will be using this folder for the install.

Run WIMWitch.PS1 from PowerShell Window as Admin

DC > Downloads > WIM-Witch-master

Name	Date modified	Type	Size
PS Scripts	04-Oct-2019 5:37 ...	File folder	
ScrewingAround	04-Oct-2019 5:37 ...	File folder	
WIM Witch Tabbed	04-Oct-2019 5:37 ...	File folder	
WimWitch	04-Oct-2019 5:37 ...	File folder	
.gitignore	04-Oct-2019 5:37 ...	GITIGNORE File	4 KB
LICENSE	04-Oct-2019 5:37 ...	File	2 KB
test.txt	04-Oct-2019 5:37 ...	Text Document	0 KB
WIMWitch.ps1	04-Oct-2019 5:37 ...	Windows PowerS...	110 KB

```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Users\Administrator> cd .\Downloads\
PS C:\Users\Administrator\Downloads> cd .\WIM-Witch-master\
PS C:\Users\Administrator\Downloads\WIM-Witch-master> dir

Directory: C:\Users\Administrator\Downloads\WIM-Witch-master

Mode                LastWriteTime         Length Name
----                -
d-----          04-Oct-2019   5:37 AM             PS Scripts
d-----          04-Oct-2019   5:37 AM             ScrewingAround
d-----          04-Oct-2019   5:37 AM             WIM Witch Tabbed
d-----          04-Oct-2019   5:37 AM             WimWitch
d-----          04-Oct-2019   5:37 AM             3073 .gitignore
d-----          04-Oct-2019   5:37 AM             1072 LICENSE
d-----          04-Oct-2019   5:37 AM              0 test.txt
d-----          04-Oct-2019   5:37 AM            112539 WIMWitch.ps1
```

When you run WIMWitch.PS1 from above you will see the following:

```
Administrator: Windows PowerShell

***** Starting WIM Witch *****
version 1.1

*****

WIM Witch is running on a supported OS
WIM Witch starting in C:\Users\Administrator\Downloads\WIM-Witch-master
Checking for installation status
WIM Witch does not appear to be installed in this location.
Would you like to install WIM Witch here?
(Y/N): n
n
Select an installation folder
Installing WIM Witch in: C:\WIM Witch
WIM Witch script copied to installation path
Created folder: CompletedWIMs
Created folder: Configs
Created folder: drivers
Created folder: jobs
Created folder: logging
Created folder: Mount
Created folder: Staging
Created folder: updates
Created folder: imports
Created folder: imports\WIM
Created folder: imports\DotNet
Created folder: Autopilot
*****
WIM Witch has been installed to C:\WIM Witch
Start WIM witch from that folder to continue.

Exiting...
PS C:\WIM Witch>
```

Now when you run WIMWitch within PowerShell Window you will see the following:

```
Administrator: Windows PowerShell

***** Starting WIM Witch *****
version 1.1

*****

WIM Witch is running on a supported OS
WIM Witch starting in C:\WIM Witch
Checking for installation status
WIM Witch is installed
Remediating for missing folders if they exist
Preflight complete. Starting WIM Witch
10/05/2019 09:57:07 Information - Updates folder exists
10/05/2019 09:57:07 Information - Staging folder exists
10/05/2019 09:57:07 Information - Mount folder exists
10/05/2019 09:57:07 Information - CompletedWIMs folder exists
10/05/2019 09:57:07 Information - Configs folder exists
10/05/2019 09:57:07 Information - Getting OSD Installation information
10/05/2019 09:57:07 Warning - OSD Update is not installed
10/05/2019 09:57:07 Information - Checking for the most current OSDUpdate version available
10/05/2019 09:57:14 Information - 19.9.12.0 is the most current version
10/05/2019 09:57:14 Information - Comparing OSD Update module versions
10/05/2019 09:57:14 Information - Getting OSDUSUS Installation information
10/05/2019 09:57:14 Warning - OSDUSUS is not installed
10/05/2019 09:57:14 Information - Checking for the most current OSDUSUS version available
10/05/2019 09:57:17 Information - 19.10.3.0 is the most current version
10/05/2019 09:57:17 Information - Comparing OSDUSUS module versions
10/05/2019 09:57:17 Information - Starting WIM Witch GUI
```

When you see OSD and OSDUSUS is not installed, we have to click Updates tab and select Enable Updates & 1903 and then click install/update and download. After the task is done close PowerShell window and open.

The screenshot shows the WIM Witch GUI on the left and a PowerShell console on the right. In the GUI, the 'Updates' tab is selected. The 'Enable Updates' checkbox is checked. Under 'Update OS/Deploy modules by using the button below', the 'Install / Update' button is visible. A table shows the current versions of OSDUpdate (19.9.12.0) and OSDUSUS (19.10.3.0). On the right, the PowerShell console shows the execution of the WIM Witch GUI, including the selection of Windows 10 version 1903 for download and the subsequent installation of the OSDUpdate and OSDUSUS modules.

Now everything in Updates tab is with latest version.

This screenshot shows the WIM Witch GUI after the updates have been installed. The 'Updates' tab is still selected, and the 'Enable Updates' checkbox remains checked. The table now shows that both OSDUpdate and OSDUSUS are at their latest versions (19.9.12.0 and 19.10.3.0 respectively). The PowerShell console on the right shows the completion of the installation process, including the download of the latest updates and the successful installation of the OSDUpdate and OSDUSUS modules.

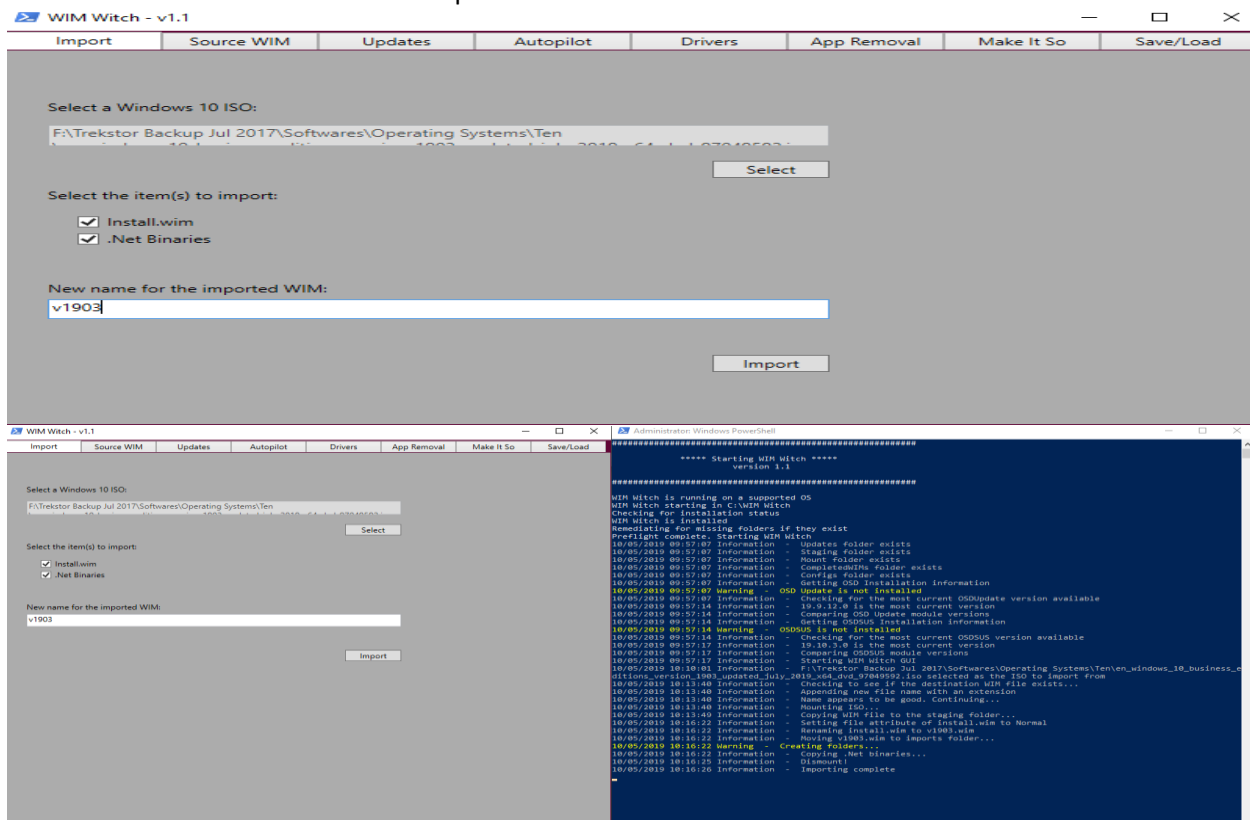
Now we can go back to the starting point and continue with the configuration.



Now we start with import. For this exercise, I will be using Win 10 ISO v1903

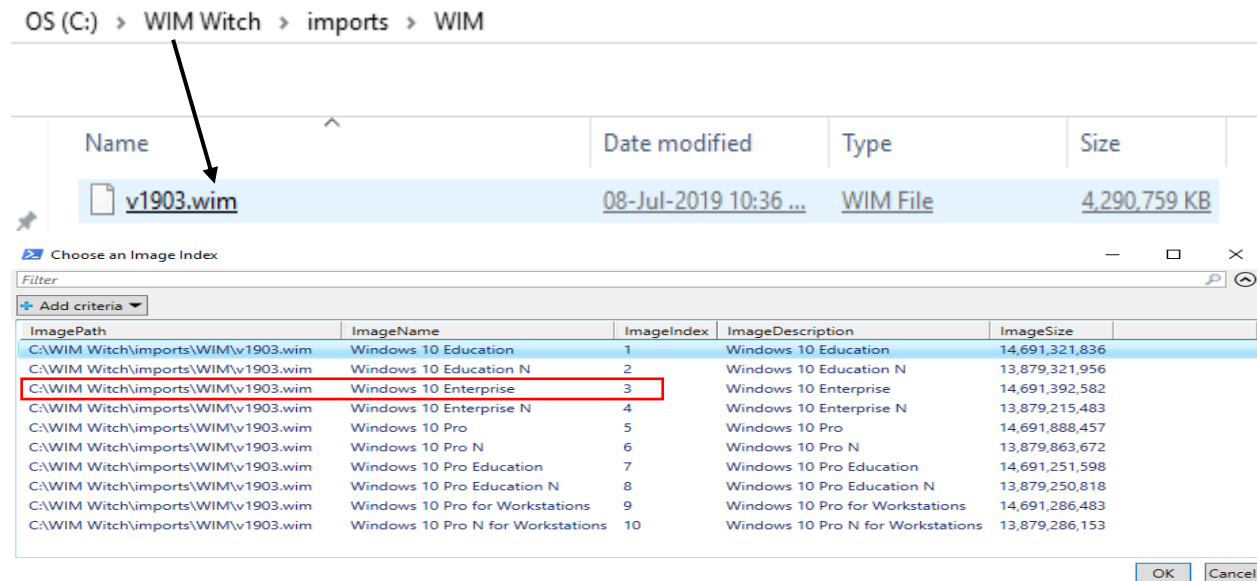
Name	Date modified	Type	Size
en-ru_windows_10_insider_preview_20H1_18980.1_32in1_x64_v19.09.11_by_adguard.iso	13-Sep-2019 9:36 AM	WinRAR archive	3,597,266 KB
en-ru_windows_10_insider_preview_20H1_18956.1000_32in1_x64_v19.08.07_by_adguard.iso	10-Aug-2019 10:15 AM	WinRAR archive	3,642,726 KB
en_windows_10_business_editions_version_1903_updated_july_2019_x64_dvd_97049592.iso	20-Jul-2019 6:29 AM	WinRAR archive	5,041,782 KB
en-ru_windows_10_version_1903_with_update_18362.113_32in1_x64_v19.05.15_by_adguard.iso	16-May-2019 11:47 AM	WinRAR archive	3,926,112 KB
en_windows_10_business_editions_version_1903_x64_dvd_37200948.iso	11-May-2019 5:49 AM	WinRAR archive	4,714,656 KB
en-ru_windows_10_insider_preview_20H1_18890.1000_32in1_x64_v19.05.01_by_adguard.iso	08-May-2019 12:44 PM	WinRAR archive	3,644,822 KB
en-ru_windows_10_insider_preview_19H1_18362.30_32in1_x64_v19.04.04_by_adguard.iso	07-Apr-2019 12:25 PM	WinRAR archive	3,793,774 KB
Version History.JPG	07-Apr-2019 11:24 AM	JPG File	194 KB
Win10_Edu_1809Oct_English_x64.iso	15-Nov-2018 2:38 AM	WinRAR archive	4,956,582 KB
SW_DVD9_Win_Pro_Ent_Edu_N.10.1809_64-bit_English_MLF_X21-96501.ISO	15-Nov-2018 2:37 AM	WinRAR archive	4,876,996 KB
ru-en_windows_10_1803_x86-x64_28in1_KMS-activation.iso	25-Oct-2018 9:19 AM	WinRAR archive	4,552,344 KB
ru-en_windows_10_1709_x86-x64_20in1_KMS-activation.iso	07-Aug-2018 10:30 PM	WinRAR archive	4,388,128 KB
ru-en_windows_10_1703_x86-x64_20in1_KMS-activation.iso	22-Nov-2017 11:43 AM	WinRAR archive	4,437,632 KB
Version and Build History.JPG	22-Nov-2017 11:34 AM	JPG File	33 KB
Install.wim	13-Nov-2017 11:04 AM	WIM File	3,436,093 KB
Version and Build History.JPG	13-Nov-2017 4:46 AM	JPG File	133 KB
ru-en_windows_10_1607_x86-x64_20in1_KMS-activation.iso	13-Nov-2017 12:23 AM	WinRAR archive	4,083,072 KB
ru-en_windows_10_1511_x86-x64_20in1_KMS-activation.iso	13-Nov-2017 12:19 AM	WinRAR archive	3,907,968 KB
Win 10 1903	21-Mar-2019 5:03 AM	File folder	
Windows 10 B55 v.1809.17763.55 AO en-us (x86-x64) 28in2 October 2018 - TEAM OS -	26-Oct-2018 9:13 AM	File folder	
Microsoft Windows 10 10.0.17763.1 Version 1809 Updated Sept 2018 Update EN	26-Oct-2018 9:05 AM	File folder	
Windows.10.RU-EN.x86-x64.8in1+-Office.2019.by.SmokieBlahBlah.12.10.18	25-Oct-2018 10:30 AM	File folder	
Notes	08-Aug-2018 2:52 AM	File folder	

Give a name for the WIM and click Import



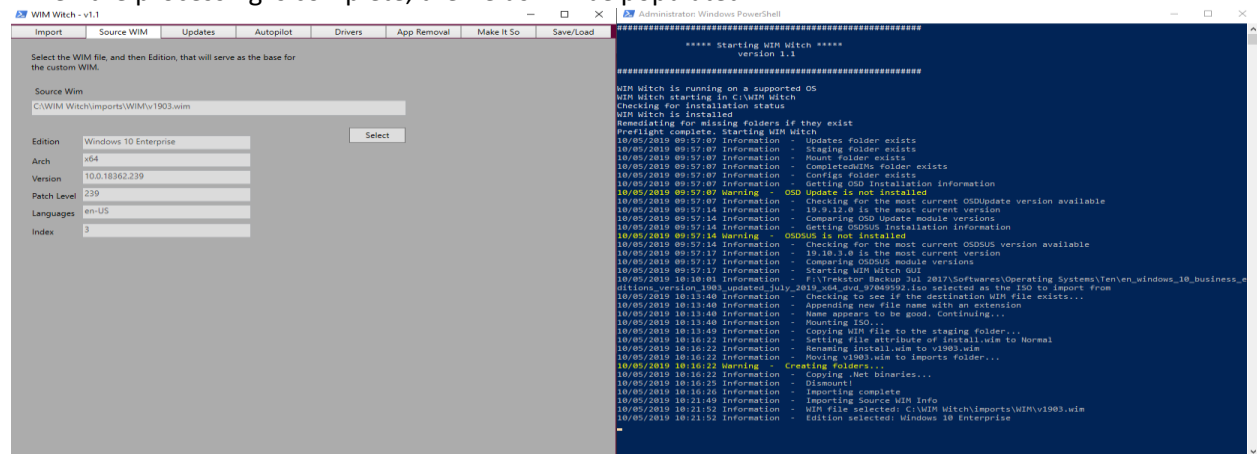
Selecting a WIM file for Customization

Starting at the “Source WIM” tab, click the “Select” button. Browse to the WIM file that will serve as the base for the image build.

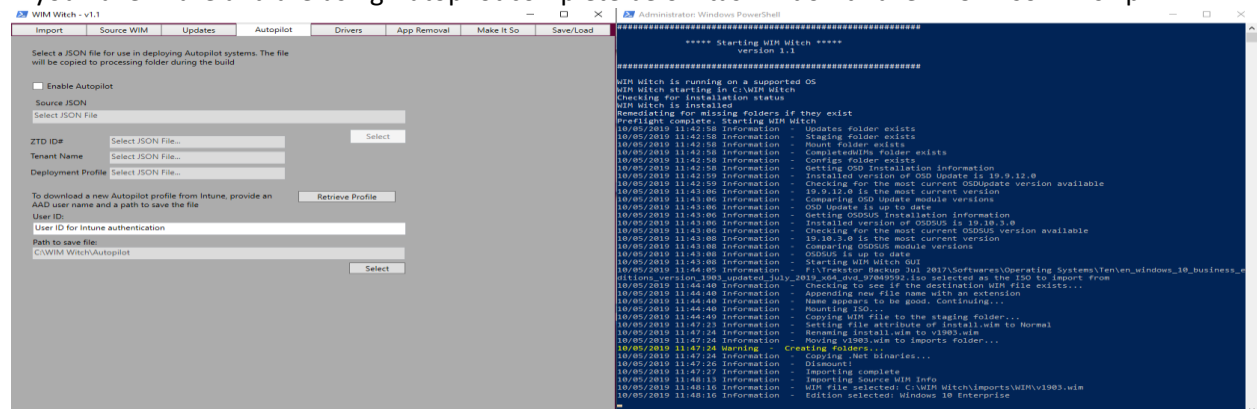


Select the edition / index of Windows 10 that will be used. Click “OK”.

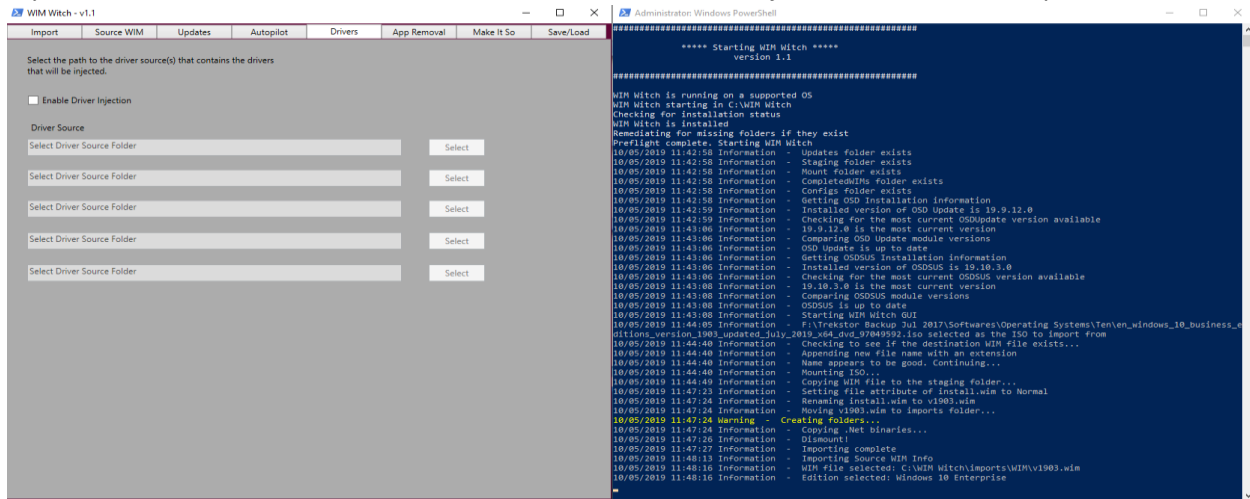
WIM Witch will take a small amount of time to analyze the selection and extract relevant information. When the processing is complete, the fields will be populated.



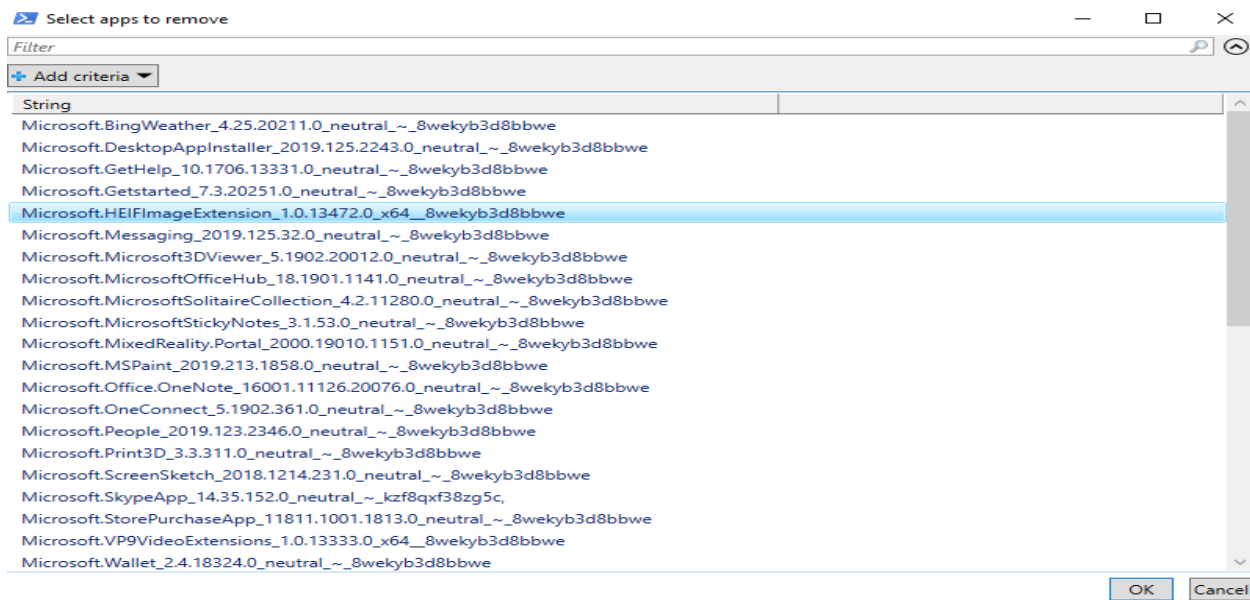
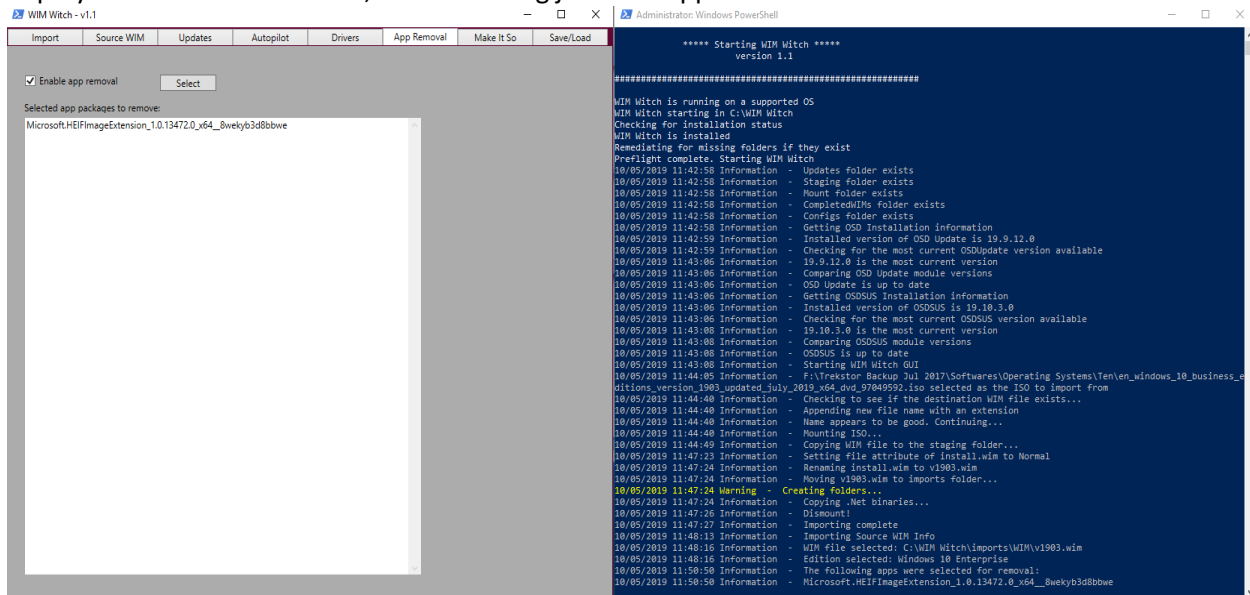
If you have Azure and are using Autopilot complete below task. I don't have AZURE so will skip



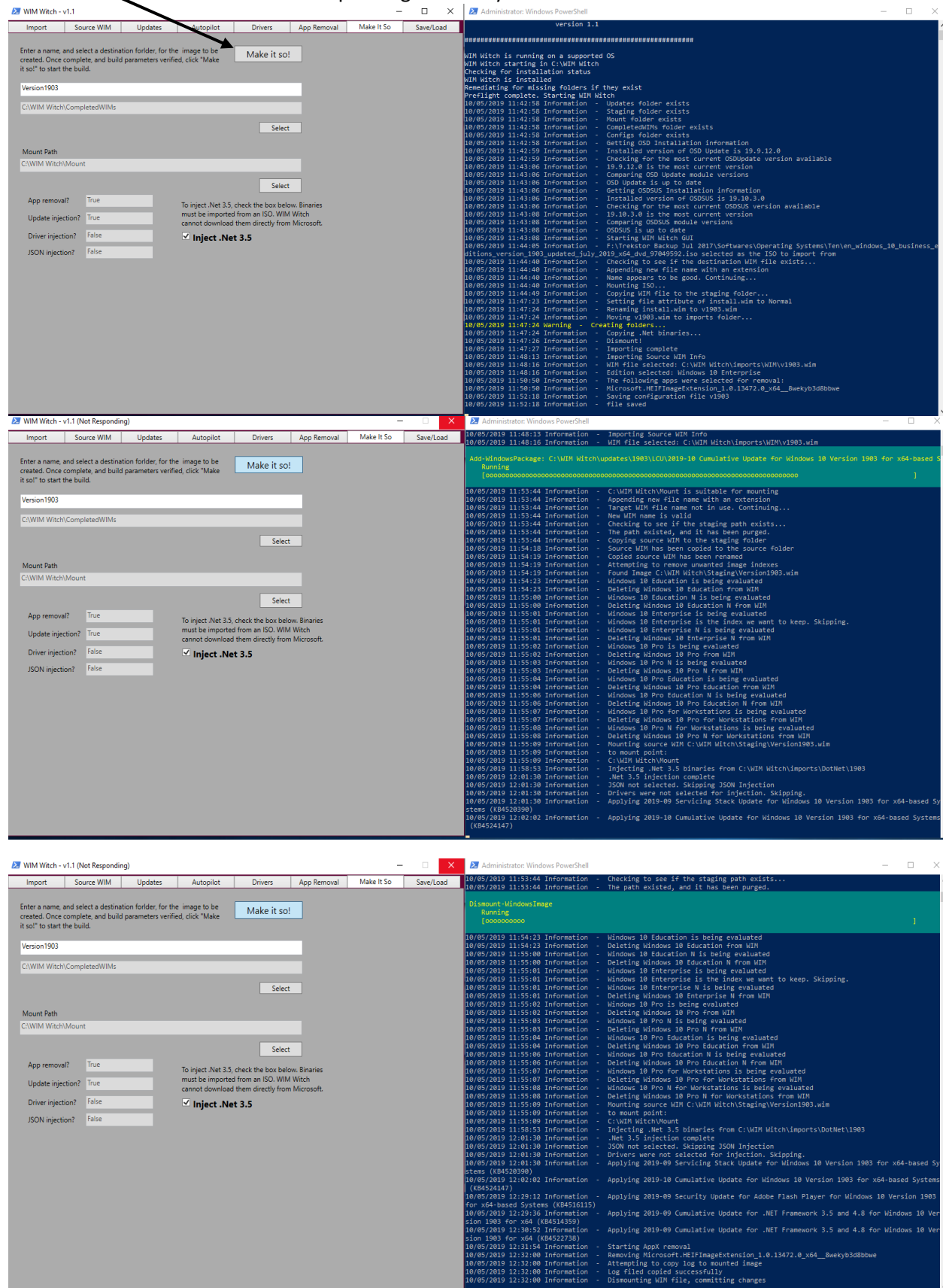
If you want to include drivers to the WIM select Enable Driver Injection and the source path

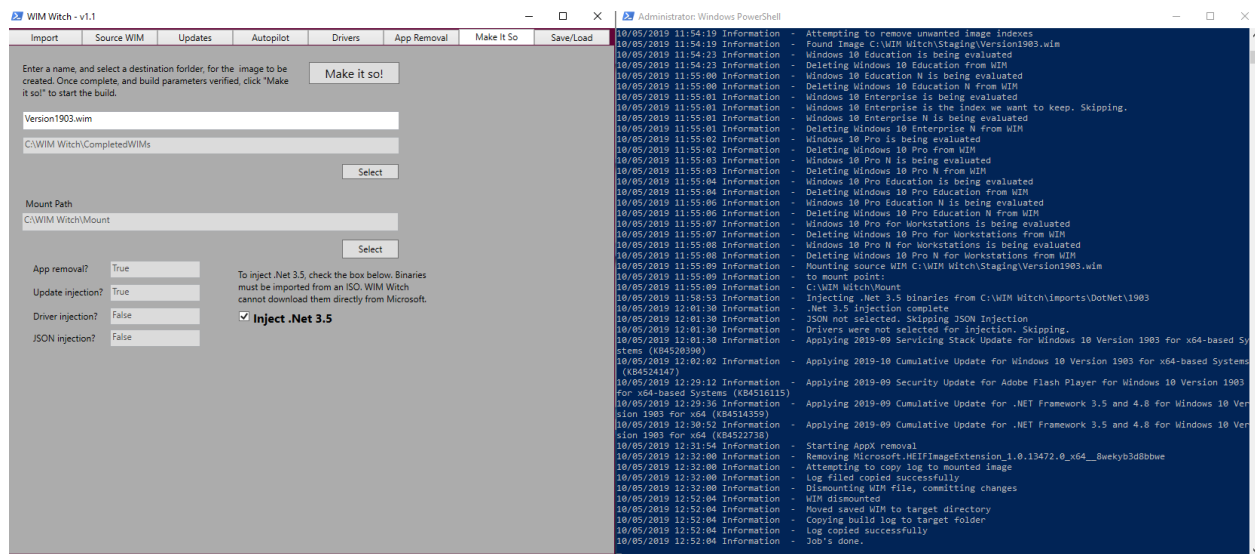


Next comes app removal. These are store apps that you can remove within the WIM before deployment. For this exercise, I am removing just ONE app.



Now we are ready to make a WIM file that can be used within CB1906 for deployment. Give WIM a name and select the path where you want it saved and mounted. Select Inject .Net 3.5 as well. Click Make it so! It will take some time depending on what your selection are.





This concludes the WIM post. This is an easy to use tool for patching WIM and other task.

Thanks!

Ram Lan
5th Oct 2019