

# **Lab – Creating an Unattended Install of Windows 10 Pro**

#### Overview

In this lab, you will learn how to generate an autoattend.xml file that is used to create an unattended install of Windows 10 Pro. Throughout the course, we have been manually creating virtual installs of Windows operating systems. This works when you only have a couple of installs, but what if you needed to roll 50 or more desktop machines all running windows 10 Pro? You would need physical touch each machine and perform a manual install.

Creating an unattended install allows you to place an answer file at the root of the install image that will respond automatically to each prompt during the setup. You can start the install, get a cup of coffee, and when you return, your 50 machines will have Windows 10 Pro running on them.

## Lab Requirements

The following programs must be installed or available on your host machine.

- Install of VirtualBox
- Install of 7-zip
- Install of Imgburn
- Microsoft Windows and Office ISO Download Tool
- Internet access

# Begin the lab

This lab assumes you have VirtualBox installed.

To begin the lab, we need to ensure we have the software and ISO image downloaded and install on our host machine.

Go to the following site to get you a free copy of 7-zip. Download 7-Zip for Windows:

Link	Туре	Windows	Description
Download	.exe	32-bit x86	7-Zip for 32-bit Windows
Download	.exe	64-bit x64	7-Zip for 64-bit Windows x64 (Intel 64 or AMD64)

# Alternatives to 7-Zip for Mac

Download and the ImgBurn ISO Creating Software: <u>Download ImgBurn</u>



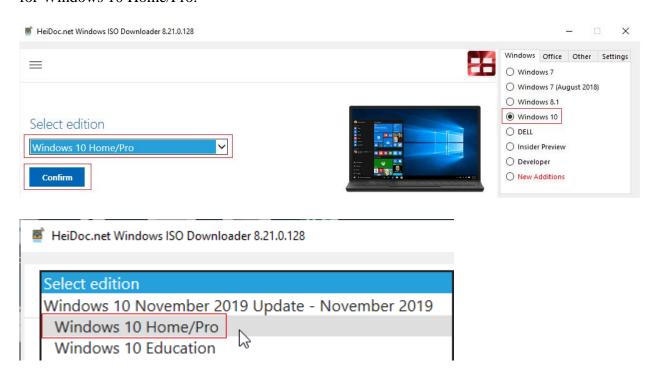
## For those that need a download of a Window 10 Pro ISO image:

Download to your desktop, the Microsoft Windows and Office ISO Download Tool
This is a self-running executable and requires no install.

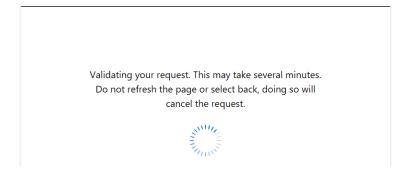
2x click to launch.

Once you have the ISO download tool launched, wait for the annoying 120-second advertisement to complete.

From the right windowpane, check the radio button for Windows 10. From the left windows pane, pull down the select edition windows and from the menu, choose, the first or top choice for Windows 10 Home/Pro.



Wait for the validation to complete.

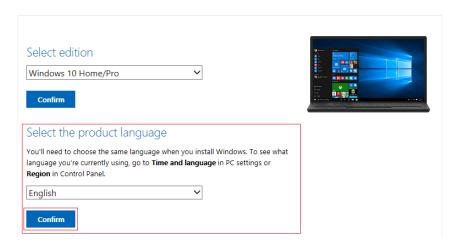


O-Download

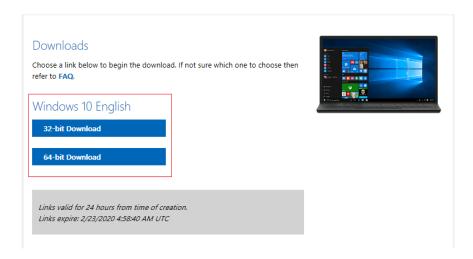
er.exe



Select and confirm your choice of language.



# Choose your download link.



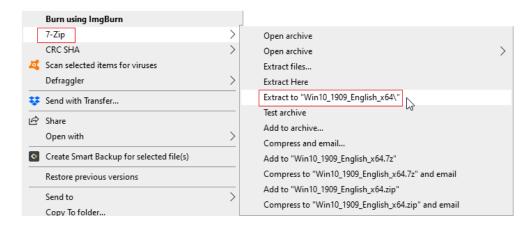
Save the download to your favorite download location.



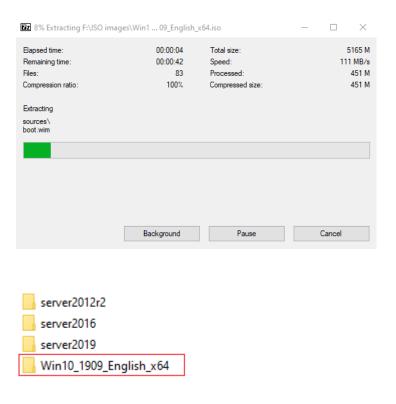


#### **Extract the Contents of The Windows 10 ISO File**

Once we have the ISO for Windows 10 safely downloaded, we will need to extract the contents to a folder. For this, we will need the 7-zip archiver program. Find your ISO image for Windows 10, right-click, and from the context menu for your 7-zip program, choose to extract to a folder using the ISO image name.



The contents of the ISO file are extracted and saved to a folder in the same location using the same name as the original ISO image.





Installation Notes

# Creating the Autounattend.xml File

Open your browser and in the address bar, and go to <a href="https://www.windowsafg.com/win10x86">https://www.windowsafg.com/win10x86</a> x64.html

This is Windows 10 answer File generator. Fill the generator in with the following information. This is my information, not yours. Your answers may vary.

### U.S. Location: Enter your comments here... Notes: **General Settings** W269N WFGWX - YVC9B 436C9 T83GX Product Key: Accept EULA: Yes v Skip automatic activation: Yes v Skip License Rearm Yes v English Setup Language: Computer Name: Win10 Organization Name: syberoffense

Caveat

The product key is a generic key issued by Microsoft just for this purpose. Microsoft issues generic keys for 180-day evals and unattended installs. Visit the following site for the complete list of Windows 10 generic keys.

List of Generic Product Keys to Install Windows 10 Editions

How to activate Windows Server without product key



### **Regional Settings**

Keyboard or input method:

Currency and Date format:

Time Zone:

UI Language:

English - United States

UTC+08:00) Beijing, Chongqing, Hong Kong, Urumqi

English - United States

### Out Of Box Experience

Network Location: Home v Protect Your Computer: Turns on Express settings. ~ Hide EULA page: Yes No Disable auto daylight timeset: Hide wireless setup in OOBE: Yes v Skip machine OOBE: Yes ~ Skip user OOBE: Yes v Control Panel View: Classic View Control Panel Icon Size: Large v

#### **Partition Settings**

Wipe Disk:

Install to disk:

Main Partition Active:

Main Partition Format:

Main Partition Label:

Main Partition Letter:

Partition Order:

Yes 

NTFS 

OS

C 

2

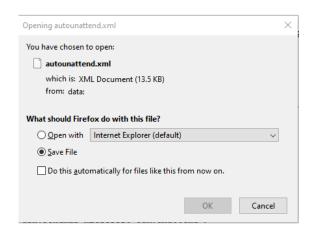
#### **User Account**

User Name: Expat Group: Administrators V Description: admin account Password: (Optional) ••••• Password Expires: False v Auto Logon: Yes v Disabled ~ UAC: CEIP: Disabled v

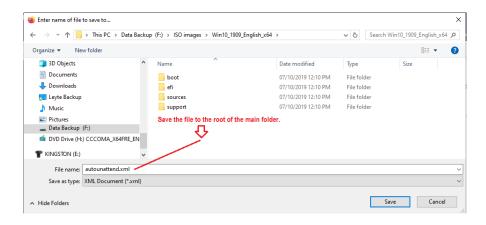


Once you have filled in all the information, the generator creates your **Autounattend.xml file** ready for you to download.

Save the file to the root of the extracted folder of your Windows 10 files.

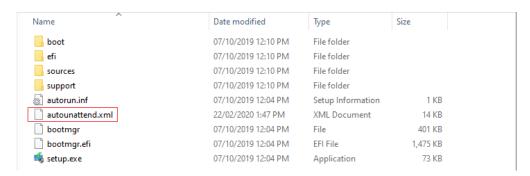


Just open the main folder for the extracted file and save.





When you open the extracted folder, this is what you should see.

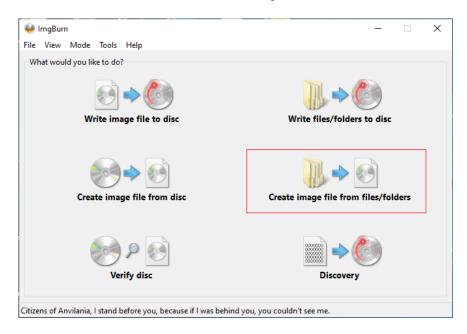


## **Create the Unattended ISO Image**

Launch the ImgBurn program. There should be an icon on your desktop.

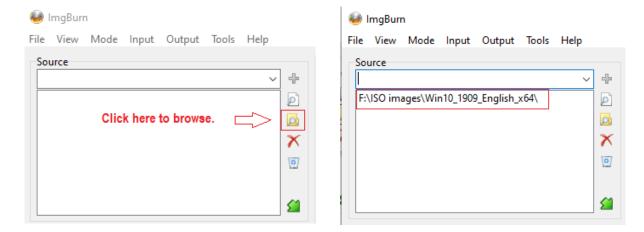


From the first screen, select Create image file from files/folders.

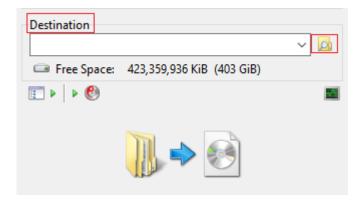


From the left windowpane, click to folder icon to browse to the location of your extracted Windows 10 folder. Do not open the folder; click the main folder to add to the source.



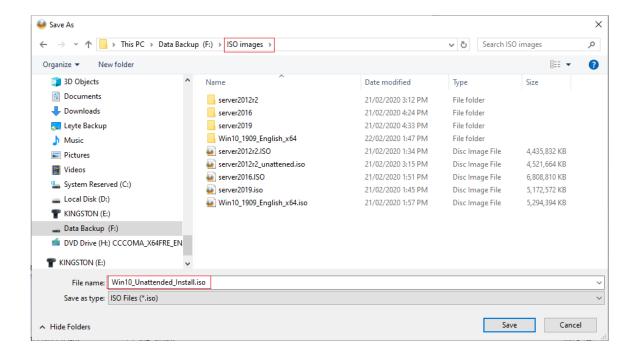


Where it's marked Destination, browse the location where you want to save the new unattended ISO image.



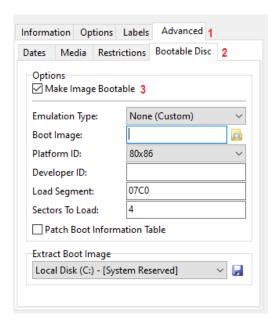
In this example, I have renamed my new ISO image to Win10\_Unattended\_Install.iso, and I have saved in the same location as the original ISO and the extracted folder.





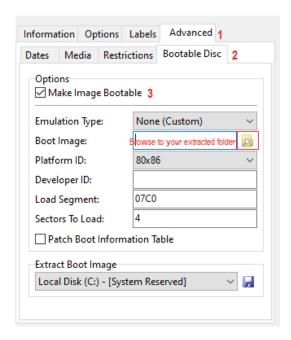
## Making the ISO image Bootable

We now need to make our new image bootable. From the right windowpane, click on the Advanced tab and then on the tab marked Bootable Disc. Check the box marked, Make Image Bootable.

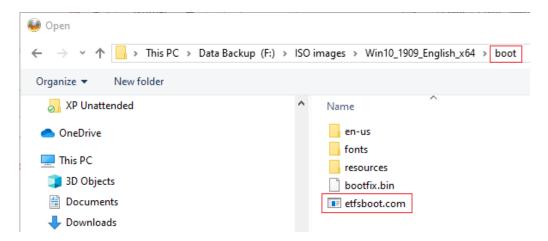




In the window marked, Boot Image, click on the browse button to the right and browse to your extracted Windows 10 ISO image folder.

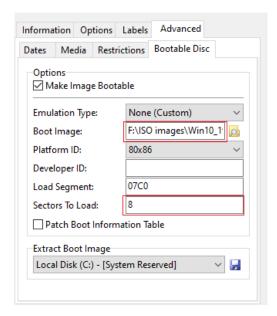


Open the folder labeled Boot. From the bottom, double click the file marked etfsboot.com.



Change the sector leads from 4 to 8. Leave the rest as the default.





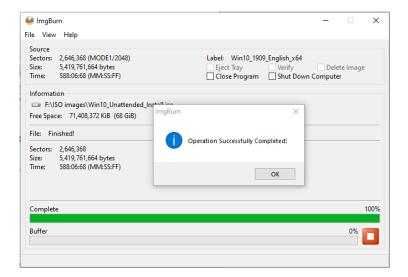
Over at the bottom of the left windowpane, click the folder to ISO icon to generate your unattended ISO image.



On the next screen, click yes to allow the program to generate a volume name for the image.

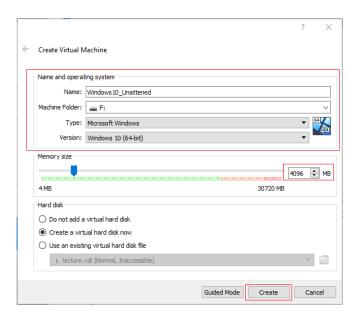
It takes but a few moments to build your new unattended ISO image.





Click OK and close out the ImgBurn program.

Open your VirtualBox and build yourself an unattended virtual install of Windows 10 Pro. Once you load the image into the VirtualBox, the install should start and finish without any input from you. During the install, most of the prompt screens will not be shown. It may look as if the install has frozen up or stalled but be patient. The install is happening in the background.



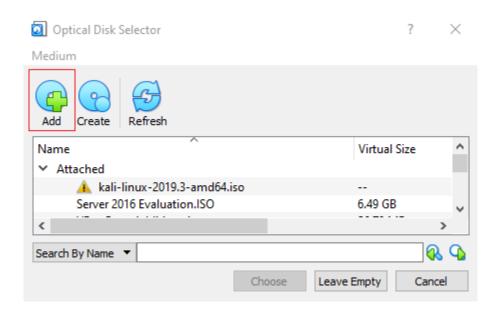
If you have the RAM, boost the allocated memory for this install to 4GB. This will allow the install to complete much faster.

Accept the remaining default setting and click create.

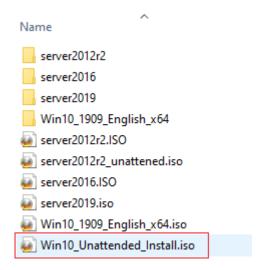


Launch the new virtual disk, and when prompted, browse over to your Windows 10 unattended install ISO image.

Click the add button.

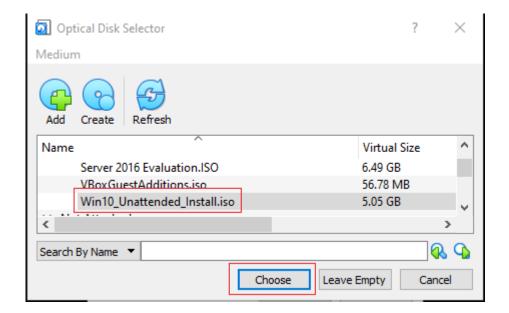


Select the unattended install ISO image.

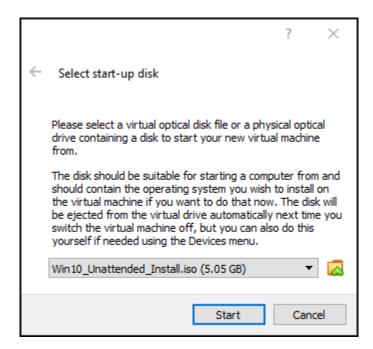


Click choose.





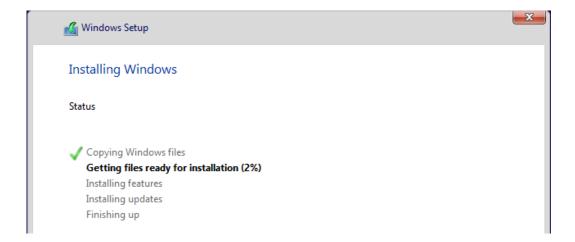
Click Start and watch the install begin.



Look ma! No prompts to answer. The Setup is Starting screen is hiding the install.

The next screen you see will be the Installing Windows screen.





You can now go and watch TV, play a video game, or stare at the monitor while Windows 10 installs.

# **Summary**

Unattended installs are great for having to rebuild a machine or create a fresh install. They can be built for any operating system though creating an unattended install for Server 2012, 2016, or 2019, is more involved and problematic, but it can be done.

End of the Lab!