Installwoa.cmd

This script is intended to unify the way that our Partners install Windows with their drivers.

This script relies on a staged wim.

Here is what the script does:

1. Validates the following before continues:
   1. Access to WIM passed in.
   2. Access to drivers if passed in.
2. Will list all the disks in the system and will ask the user to select which one to use.
3. Once the disk has been selected, it will do the following
   1. Clean the disk
   2. Convert it to GPT
   3. Create three partitions (EFI, MSR, OS)
   4. Formats the partitions
   5. Assigns drive letters to them
4. Applies the wim passed in to the script to the OS partition created in step #3
5. Uses bcdboot to create the EFI partition information.
6. If a path to drivers was passed in to the script, it will inject those drivers.
   1. I use the /recurse switch, so no need to flatten directories.
7. Enable the debugger, unless the command line was passed in not to.
   1. The script defaults to USB with the computer name. Pass in –SERIAL:port/baudrate to enable serial.
8. Enable testsigning, unless the command line was passed in not to.
9. Create the windows\panther directory.
10. Parse unattend-arm.xml and fill out changeable variables and put into unattend.xml that exists in windows\panther directory.
11. Exits gracefully

At this point the user can reboot the machine by typing Exit and the system will boot Windows for the first time with all the drivers injected and ready to be used.

**WinRE**

One of the command line parameters that can be passed in is the –winre switch. These are the added steps when this parameter is set.

1. Five partitions are created instead of three.
   1. Winre,efi,msr,push button reset,os
2. If drivers are passed in, they are injected into the following:
   1. Winre.wim
   2. Install.wim
3. The image that is applied to the os partition is from the install.wim after the drivers are injected.
4. The new install is setup to use the push button reset partition created.

**NOTE:** In order for this to work, you must be sure to have the halextensions in their driver packages. Otherwise the winre.wim will not function correctly. If you do not have all your hal extensions, get them.

# Command Line Parameters

Usage

InstallWOA.cmd

-? - This help

-IMG:<full path to WIM to use>

-DISD - Disables debuggers

-DIST - Disables test signing

-DAUDIT – Enables Desktop Lockdown

-DRV:<Path to the driver files>

-MN:<Name of the Machine>

-PID:<Pid to Insert into WIM>

The PID must be in the form: XXXXX-XXXXX-XXXXX-XXXXX-XXXXX

-SERIAL:<port/baudrate>

This will enable the serial debugger.

example: -SERIAL:1/115200

The default debugger is USB with the computer name as the target name.

- WINRE

This sets up the push button reset partition and winre partition and configures the

OS to use the push button reset.

-CRITICAL – Only fails if the error is critical.

-NOUNATTEND – does not apply the unattend file

-WINREFB – This will tell the script to find the winre boot option and

-REG: <Path that contains the registry file>

-QCFW:<Path that contains the qualcomm update binary and firmware>

This expects the updater tool and firmware to coexist in the same directory. They also expect a certain name for the tool and for the firmware.

-DID: <Number of the disk to install to>

When using this switch, it’s unnecessary to pass the –mn switch. The user will be asked for the machine name.

-OVR:<Path to the overlay directory>

Xcopies the directory over the mount directory. If you want to add a file to the system32 directory you would create a directory structure like the following.

Overlay\windows\system32

REG switch: This will import the reg files into the registry. These are the paths to work in order to make sure that it is injected into the correct image.

HKLM\WINPEKE-software

HKLM\WINPEKE-components

HKLM\WINPEKE-system

HKLM\WINPEKE-drivers

-dvenable or -dvenable:<Driver list surrounded by quotes>

-dvenable will enable verifier on all drivers (MS as Well as 3rd Party)

-dvenable:"driver1.sys driver2.sys driver3.sys"

Seperate drivers with space, but make sure to use quotes "" when

using multiple drivers.

# Usage Instructions

1. Create a BOOTME thumb drive with the latest WinPE image.
2. Md a directory on the BOOTME thumb drive called installwoa
3. Copy the script and its supporting files to the installwoa directory on the thumb drive.
4. Boot from thumb drive
5. Go to thumb drive and run script.
   1. The install.wim can be on the thumb drive or on the network share.

# PID

There are two ways you can enter the PID key. You can either pass it into the script using –PID or you could change the unattend-arm.xml and just hard-code the PID.