

Script for Setting up the Vista or Windows 7 BCD to Boot WinPE from Hard Disk Files

I find it very convenient to boot WinPE from the HD instead of finding the thumb-drive or CD to boot from. So, I've worked up this cmd.exe script to assist me with setting up WinPE to boot from hard disk files. It is fairly robust, works for me on many different machines, so thought it would be good to share it. Use it, dissect it, borrow parts for other tasks - shucks. Have a ball.

```
@echo off
```

```
rem Note: This script for WinPE for Windows Vista spl
rem
rem For adding entries into the BCD store to setup WinPE load from HDD location.
rem The boot files are copied from a working WinPE bootable CDrom disk.
rem The point is to be able to boot WinPE from the HDD without needing to find
rem the
rem bootable CD disk.
rem
rem For safety this script exports the system BCD store to a temporary store
rem then edits the temporary store. After success, the temporary store is
rem imported into the system BCD store.
rem
rem As scripted here, the WinPE boot files must exist on this drive and path:
rem drive D: ( variable WPDrv )
rem folder \wpeboot ( variable WPPth )
rem The Drive and Path to the WinPE boot files can be changed by
rem modifying two cmd.exe set statements (below) before executing this script.
rem To change the location later, run the 'delete' script, move the files,
rem modify this script and add the settings again.
rem
rem Typically there will be two WinPE boot files
rem boot.Wim ( variable WimNm )
rem boot.Sdi ( variable SdiNm )
rem You will copy them manually from the working Winpe boot cd rom disk
rem \sources\boot.wim and \boot\boot.sdi locations into the D:\wpeboot folder.
rem Assuming that the WinPE boot CD was created normally the .wim
rem file is named boot.wim and the .sdi file is named boot.sdi
rem If you rename them you must fix the set statements (below) appropriately.
rem
rem This script creates the osloader entry and the device options entry for it,
rem obtaining the randomly created GUIDs (variables guid1 and guid2).
rem This script also creates 'DelWinpe.cmd' command file for you to use if
rem required to remove those two entries from the BCD store. This also gives
rem you a permanent record of the two ramdomly generated GUIDs.

echo Exporting the system BCD store to BcdTemp
bcdedit /export BcdTemp
if errorlevel 1 echo Error - we need to have admin privileges.
if errorlevel 1 goto Endit

rem Set the name of the Winpe .wim file
set WimNm=boot.wim

rem Set the name of the WinPE .sdi file
set SdiNm=boot.sdi

rem Set the drive where the two WinPE boot files are located ( x: with no \ )
set WPDrv=D:
```

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```
rem Set the folder path to the WinPE boot files ( no drive letter, no trailing \ )
set WPPth=\wpeboot

rem Description that shows up in the boot menu
set WPDes="WinPE 6.0.6001 (Vista spl)"

rem Create the osloader and device options entries in the bcd store.
rem Get the randomly created GUID numbers that uniquely identify our two entries.

For /F "tokens=3 delims= " %1 in ('bcdedit.exe /store BcdTemp /create
/application OSLOADER /d %WPDes%') do set guid1=%1
echo Osloader entry id is %guid1%

For /F "tokens=3 delims= " %1 in ('bcdedit.exe /store BcdTemp /create /device /d
%WPDes%') do set guid2=%1
echo Device options entry id is %guid2%

echo Setting items in the osloader entry

bcdedit /store BcdTemp /set %guid1% device
ramdisk=[%WPDrv%]%WPPth%\%WimNm%,%guid2%
bcdedit /store BcdTemp /set %guid1% osdevice
ramdisk=[%WPDrv%]%WPPth%\%WimNm%,%guid2%
bcdedit /store BcdTemp /set %guid1% path \windows\system32\boot\winload.exe
bcdedit /store BcdTemp /set %guid1% locale en-US
bcdedit /store BcdTemp /set %guid1% inherit {bootloadersettings}
bcdedit /store BcdTemp /set %guid1% systemroot \windows
bcdedit /store BcdTemp /set %guid1% detecthal Yes
bcdedit /store BcdTemp /set %guid1% winpe Yes
bcdedit /store BcdTemp /set %guid1% ems No

echo Setting items in the device options entry
bcdedit /store BcdTemp /set %guid2% ramdiskstype partition=%WPDrv%
bcdedit /store BcdTemp /set %guid2% ramdisksdipath %WPPth%\%SdiNm%

echo Setting bootmgr to include the WinPE entry in the boot display list
bcdedit /store BcdTemp /set {bootmgr} displayorder %guid1% /addlast

rem Create an undo cmd file to delete the entries directly from the system bcd
store.
echo Creating the DelWinpe.cmd undo command file
echo bcdedit /delete %guid1% >>DelWinpe.cmd
echo bcdedit /delete %guid2% >>DelWinpe.cmd

echo Display bootmgr and the two new entries
bcdedit /store BcdTemp /enum {bootmgr}
bcdedit /store BcdTemp /enum %guid1%
bcdedit /store BcdTemp /enum %guid2%
echo.

If errorlevel 1 echo Error - something went awry. Not importing the temporary
store.
If errorlevel 1 goto Endit

echo Ready to import the temporary store into bcd system store...
pause

echo Importing BcdTemp into the system BCD store.
```

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```
bcdedit /import BcdTemp
```

```
:Endit
```

```
set guid1=
```

```
set guid2=
```

```
set WpDrv=
```

```
set WPPth=
```

```
set WimNm=
```

```
set SdiNm=
```

```
set WPDes=
```

```
echo done
```