

Boot Fix Factory Restore

After many hours of tinkering and Googling with absolutely no direct information on how to solve my riddle, I figured it out.

I'm sure nobody cares because it seems there is absolutely nobody on the internet looking for this same functionality, but here's how I did it.

1. Install the Windows AIK from Microsoft.
2. Mount the BOOT.WIM from a Vista Installation disk.
3. Copy ALL files (no directories) from the root of the SYSTEM32 folder in the image to a backup folder.
4. Mount the WINPE.WIM from the AIK toolkit.
5. Overwrite the SYSTEM32 files in the WINPE.WIM mounted image with the SYSTEM32 files from the BOOT.WIM off the Vista disk.
6. Create a WINPESH.LINI file in the SYSTEM32 folder that will launch your custom script (I named mine AUTOEXEC.COMD, which immediately runs my script in the command line).

6a. UNMOUNT, BACKUP THE CUSTOM WIM, THEN REMOUNT AS THE NEXT STEP CANNOT BE UNDONE AND YOUR IMAGE CANNOT BE EDITED AFTER THE FACT.

7. Run the "**PEIMG /PREP <mountpath>**" command on the mounted WINPE image.
8. Run the "**PEIMG /TARGETPATH=X:\ <mountpath>**" command on the mounted WINPE image.
9. Finally create the ISO!

My purpose for this is to immediately fix the BCD data with the BOOTREC utility at the end of my script. I thank DELL specifically for whatever the heck they did to their Computer's images that makes the BCD data get corrupted after the hard drives get reimaged (with Ghost or Acronis), THEN factory restored. Reimaging works fine, but after a reimage and a subsequent Factory Restore, the unit will NOT load Windows without running stupid Startup Repair. Really no need to boot TWO discs if one can do the job, and automated at that with ONE....

FACTORY RESTORE.... FIX BCD DATA.... REBOOT... VOILA!!!!

I've having the same problem for a while and finally got it to work. Here is what is needed (figured it out using Dependency Walker)

1. Mount boot.wim from sources directory on the Vista DVD.
2. Copy the following files from **[Vista DVD\sources\boot.wim]** to **[WinPE\sources\boot.wim]**:

```
\windows\system32\Bootrec.exe
\windows\system32\wer.dll
\windows\system32\en-US\Bootrec.exe.mui
\windows\system32\en-US\wer.dll.mui
```

Hope this helps...