APPLY UPDATES TO WINDOWS 7 IMAGE USING DISM

Image

In our case we will be working on the default Windows 7 image that we have copied from Windows 7 DVD, called **install.wim**. It is located in the **[DVD drive]:\sources**\ folder and we will copy it to our **c:\images**\ folder. We also have **c:\images\mount**\ folder which we will use to mount our image. We have also installed The Windows Automated Installation Kit (**WAIK**) for Windows 7. This is necessary because we need to use the DISM command line tool. So, the first thing we will do is run **Deployment Tools Command Prompt** with elevated privileges. To do that go to **Start > All Programs > Microsoft Windows AIK > Deployment Tools Command Prompt** (right-click > Run as administrator).

Mount Image

We have to mount our install.wim image so we can work on it in offline mode. To mount our image we will use the following command: **dism /mount-wim**/wimfile:c:\images\install.wim /index:4 /mountdir:c:\images\mount.



Image 203.1 - Mounting Image

Current Packages

When the mounting is complete, we can see what packages does it currently

contain. To do that we will enter the following command (against our mounted

image this time): **dism /image:c:\images\mount /get-packages**.



Image 203.2 - Get-packages Command

The /get-packages option shows us all installed packages on our image. The benefit of using DISM is that we can have an image which we can frequently update so we don't have to worry about that image becoming out of date.

This way, we don't have to install our image, then apply updates on live machine, and then capture the new image. We can always work on our existing image which saves a lot of precious time.

We can only install packages which are in **.cab or .msu** format. In our case we will install an update package that we downloaded from Microsoft website. We will put that file in **c:\images\packages** folder. The update file in our case is Windows6.1-KB2533623-x86.msu.



Image 203.3 - Update File

Adding Packages

To add that package we will enter the following command: dism

/image:c:\images\mount /add-package

/packagepath:c:\images\packages\Windows6.1-KB2533623-x86.msu. To add

packages we use the /add-package option, but we also have to specify the package

path with the /packagepath parameter.



Image 203.4 - Adding Package

We can verify that our package is installed by using the **dism**

/image:c:\images\mount /get-packages command. Our package will be last on the

list because it is the newest installed package. The status is Install

Pending because the actual installation of our package will happen when the

image is being applied to the machine.

Unmounting and Saving Changes

Once we are done we can unmount our image, but we have to save our changes with the /commit option. The whole command is: dism /unmount-wim /mountdir:c:\images\mount /commit.





Remember

We can use DISM to service our existing image. This way we will always have updated Windows image. We can install any update or application which is in the Cabinet format (.cab extension) or Microsoft Standalone Update format (.msu).

Commands that are mentioned in this article

• dism /mount-wim /wimfile:c:\images\install.wim /index:4

/mountdir:c:\images\mount - mount install.wim image edition 4, which is located in c:\images\ folder, to the c:\images\mount\ folder

 dism /image:c:\images\mount /get-packages - get all packages contained on mounted image which is located in c:\images\mount folder dism /image:c:\images\mount /add-package

/packagepath:c:\images\packages\Windows6.1-KB2533623-x86.msu - add Windows6.1-KB2533623-x86.msu package to the mounted image which is located in c:\images\mount folder

 dism /unmount-wim /mountdir:c:\images\mount /commit - unmount image from the c:\images\mount folder and save all changes (commit)

Paths that are mentioned in this article

- [DVD drive]:\sources\install.wim location of the Windows 7 image on the Windows 7 DVD, which we copied to our Hard Drive
- **c:\images**\ folder in which we have copied install.wim image
- **c:\images\mount**\ folder which we used to mount install.wim image
- c:\images\packages folder which we used to save packages before adding them to the mounted image
- Start > All Programs > Microsoft Windows AIK > Deployment Tools
 Command Prompt location of the Deployment Tools Command Prompt.

Source: http://www.utilizewindows.com/7/deployment/203-apply-updates-towindows-7-image-using-dism