

**STUDENT ACTIVITY 2.3\_KEY: UNDERSTANDING INSTALLATION TYPES**

MTA Course: 10753 Windows Operating System Fundamentals

Topic: Understanding installation types

File name: 10753\_WindowsOS\_SA\_2.3\_key

**Lesson Objective**

**2.3:** Understand installation types. *This objective may include but is not limited to:* understanding removable media installations (DVD, ZTI, LTI, and USB), cloud and network installations, and product identification keys.

**Resources, software, and additional files needed for this lesson:**

- Internet access
- A workstation with Windows® 7 Professional or Enterprise edition installed
- Alternative option:
  - A virtual machine with Windows 7 Professional or Enterprise edition installed

**Directions to the student:**

Complete the following hands-on activities. Answer questions throughout the activities. Ask the instructor to verify your answers.

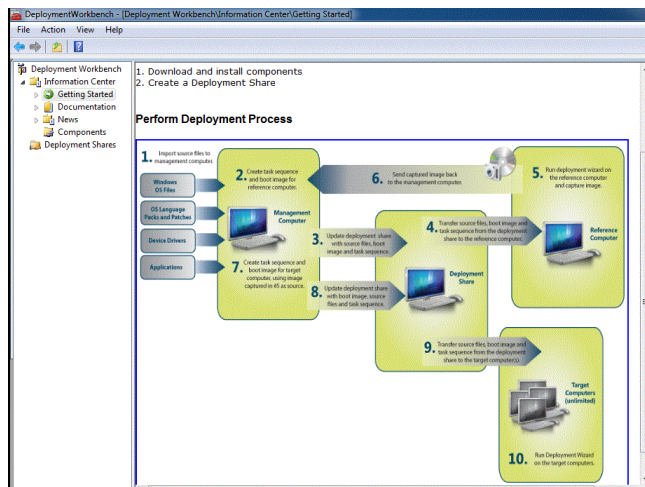
**Product Identification**

1. Authenticate into your system using the credentials provided by your instructor.
  2. Click Start. Select Control Panel, System and Security, and then System. What is your Product ID?  
Answers will vary. Instructor: verify the product key on the screen matches student notes.
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**Microsoft Deployment Toolkit**

1. Authenticate into your system using the credentials provided by your instructor.

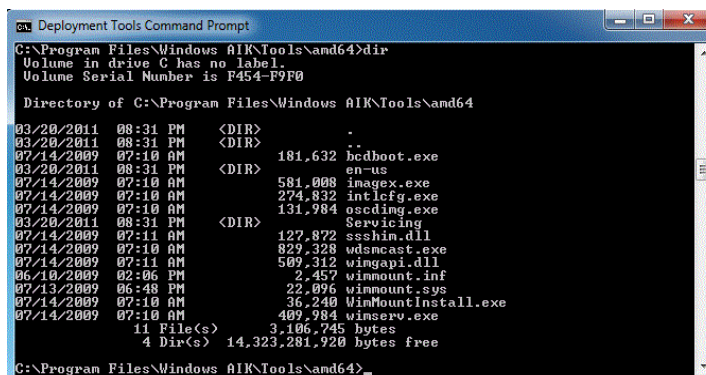
2. Obtain the Microsoft® Deployment Toolkit (MDT) from your instructor or browse the following website and download the appropriate file for your operating system (x64 or x86):  
<http://www.microsoft.com/downloads/en/details.aspx?FamilyID=3bd8561f-77ac-4400-a0c1-fe871c461a89&displayLang=en>
3. Install the MDT on your system.
4. Click the Getting Started icon, as shown here.



5. List the 10 steps in the deployment process.
  - a. Import source files to the management computers.
  - b. Create a task sequence and boot image for the reference computer.
  - c. Update the deployment share with source files, a boot image, and a task sequence.
  - d. Transfer the source files, boot image, and task sequence from the deployment share.
  - e. Run the deployment wizard on the reference computer and capture the image.
  - f. Send the captured image back to the management computer.
  - g. Create a task sequence and boot image for the target computer using the image captured in step e as the source.
  - h. Update the deployment share with the boot image, source files, and task sequence.
  - i. Transfer the source files, boot image, and task sequence from the deployment share to the target computer(s).
  - j. Run the Deployment Wizard on the target computers.
6. Click the Components option in MDT.
7. Highlight Windows Automated Installation Kit (WAIC).

8. Click download in the lower portion of the screen.
9. Once the download is completed, install the toolkit from within MDT. You can skip the download if the instructor has provided the software for your use. It is important to note that you can use WAIK as your deployment workbench and obtain the necessary tools through the MDT console.
10. Once WAIK is installed, click Start and select Windows System Image Manager. This tool can be used to manage all image files and create answer files for Lite Touch Installations (LTIs) or Zero-Touch Installations (ZTI).
11. Click Start. Select All Programs, Microsoft Windows AIK, Deployment Tools Command Prompt. This utility contains various tools to create WindowPE tools, boot devices such as a bootable USB containing WindowsPE, and imaging/duplication tools.
12. A command window will open. Navigate to C:\Program Files\Windows AIK\Tools.
13. Type **DIR** and press ENTER.
14. What directories are listed?
  - a. Amd64
  - b. X86
  - c. IA64
15. What do these directories signify?
 

They signify the different supported processor types.
16. Navigate to C:\Program Files\Windows AIK\Tools\amd64.
17. Type **dir** and press ENTER. You should see the list shown here.



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C:\Program Files\Windows AIK\Tools\amd64>dir
Volume in drive C has no label.
Volume Serial Number is F454-F9F0

Directory of C:\Program Files\Windows AIK\Tools\amd64

03/20/2011  08:31 PM  <DIR>          .
03/20/2011  08:31 PM  <DIR>          ..
07/14/2009  07:10 AM             181,632  bcdboot.exe
03/20/2011  08:31 PM  <DIR>          en-us
07/14/2009  07:10 AM             581,008  imagex.exe
07/14/2009  07:10 AM             274,832  intlcfg.exe
07/14/2009  07:10 AM             131,784  oscdiag.exe
03/20/2011  08:31 PM  <DIR>          Servicing
07/14/2009  07:11 AM             127,872  ssshim.dll
07/14/2009  07:10 AM             329,328  wdsimcast.exe
07/14/2009  07:11 AM             509,312  wingapi.dll
06/10/2009  02:06 PM              2,457  winmount.inf
07/13/2009  06:48 PM             22,096  winmount.sys
07/14/2009  07:10 AM             36,240  WinMountInstall.exe
07/14/2009  07:10 AM             407,984  winserve.exe
11 File(s)      3,106,745 bytes
4 Dir(s)        14,323,281,920 bytes free

C:\Program Files\Windows AIK\Tools\amd64>

```

18. This folder contains tools used to create duplicated systems. These tools will work on AMD64 processors.
19. Notice the Imagex.exe file, which is a duplication tool that can be used to create cloned images of an operating system. Imagex.exe is the tool used to create Windows Image files.

20. Type **exit** and press ENTER to leave the Deployment Tools command prompt.
21. Have the instructor verify your answers.