Introduction

The **Install and Configure Windows Deployment Services** module provides you with the instruction and Server hardware to develop your hands on skills. This module includes the following exercises:

- 1) Install and Configure Windows Deployment Services
- 2) Update Images with Patches and Drivers

Lab Diagram

During your session you will have access to the following lab configuration.



Connecting to your lab

In this module you will be working on the following equipment to carry out the steps defined in each exercise.

PLABHYPERV

Each exercise will detail which console you are required to work on.

To start simply click on the named Server from the device list (located on the left hand side of the screen) and click the **Power on** from the in tools bar. In some cases the devices may power on automatically.

During the boot up process an activity indicator will be displayed in the name tab:

- Black Powered Off
- Orange Working on your request
- Green Ready to access

If the remote console is not displayed automatically in the main window (or popup) click the **Connect** icon located in the tools bar to start your session.

If the remote console does not appear please try the following option:

• Switch between the HTML 5 and Java client versions in the tools bar.

In the event this does not resolve your connectivity problems please visit our Help / Support pages for additional resolution options.

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Exercise 1 – Install and Configure Windows Deployment Services

In this exercise, you will install Windows Deployment Services on Windows Server 2012 R2 to create different operating system image types.

The different image types (boot, install) from WDS can be used to streamline the deployment of Windows 8.1 and other operating systems on bare-metal computers.

Please refer to your course material or use your preferred search engine to research this topic in more detail.

Task 1: Create a new Volume for WDS image

Step 1

Ensure you have powered on the required devices and connect to PLABHYPERV.

From Server Manager, click **Tools** > **Hyper-V Manager**.



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From Hyper-V Manager, right-click on **PLABDC01** and choose **Settings..**.

Step 3

In Settings for PLABDC01, click **IDE Controller 0.**

From details pane, click Hard Drive and choose Add.



A new Hard Drive <file> is added.

In the details pane, click New.



In Before you begin page, click **Next**.



From Choose Disk Format, click Next.



From Choose Disk Type, verify that **Dynamically expanding** is selected. Click **Next**.



In Specify Name and Location, click in Name box and type

Disk2

Click Next.



In Configure Disk page, click Next.



From Completing the New Virtual Hard Disk Wizard page, click Finish.



Click **OK** to close Settings for PLABDC01 properties box.



Task 2: Install and Configure Windows Deployment Services

Step 1

From Hyper-V Manager, right-click on **PLABDC01** and choose **Connect**.



Click Start (green) button.

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Step 3 Click Ctrl Alt Delete



Sign on to PLABDC01 as practicelabs\administrator password is Passw0rd



In Server Manager, click Tools > Computer Management.



From Computer Management, go to **Storage** and click **Disk Management**.

The Initialize Disk dialogue box appears, click **OK**.

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Right-click on Disk 1's Unallocated partition and choose New Simple Volume...

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From Welcome to the New Simple Volume Wizard, click Next.

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From Specify Volume Size, click **Next**.

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In Assign Drive Letter or Path, click **Next**.

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In Format Partition page, click **Next**.

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In Completing the New Simple Volume Wizard, click Finish.

Close Computer Management.

Ignore the prompt to format the new volume.

Minimize PLABDC01 window.

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Go to PLABHYPERV host and reopen Hyper-V Manager.

Right-click on PLABDC01 and choose Settings...



On Settings for PLABDC01 on PLABHYPERV, go to **IDE Controller 1** and click on **DVD Drive**.

Go to details pane and click the Physical CD/DVD drive then change to Drive F.

Click **OK** to save changes.



Restore PLABDC01 window.



Click PowerShell on taskbar and type the following:

Add-WindowsFeature Wds,Wds-Deployment -IncludeManagementTools

Exit

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Go to Server Manager.

Click Tools > Windows Deployment Services.



Expand Servers and right-click on PLABDC01.PRACTICELABS.COM, then choose Configure Server.

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configured, you	a will need to add at least one boot image and one install image to the server		ove Server
before you will	be able to install an operating system.		sh
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- The se a doma	rer is a member of an Active Directory Domain Services (AD DS) domain, or n controller for an AD DS domain. If the server supports Standalone mode, it		.01 🔺
can be	configured without having a dependency on Active Directory.		ect
There i Deploy	an active DHUP server on the network. This is because Windows nent Services uses Pre-Boot Execution Environment (PXE), which relies on		qs
DHCP	or IP addressing.		Off
There i	an active DNS server on your network.		Down
This se	ver has an NTFS file system partition on which to store images.		
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On Install Options, ensure that Integrated with Active Directory is selected.

Click Next.



On Remote Installation Folder Location, change it to

E:\RemoteInstall

Click Next

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	al SAN Manager	
Remote Installation Folder Location	Disk	
ployment Services. You can	ct Disk	
The remote installation folder will contain boot images, install images, PXE boot files,	Service	
and the Windows Deployment Services management Nois. Choose a partition that is large enough to hold all of the images that you will have. This partition must be an and then click Add Server.	ove Server	
NTFS partition and should not be the system partition.	sh	
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Since WDS is running on a domain controller, leave the settings as it is.

Click Next.



From PXE Server Initial Settings, click **Respond to all client computers (known and unknown)**.

Click Next.

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	erties. You can also manage Service	
You can use these settings to define which client computers this server will respi the clients that have been prestaged. When the physical computer performs a P	pond to. Known clients are PXE boot, the operating pive Server	
system will be installed based on the settings that you have defined.	and then click Add Server.	
	,	
Select one of the following options:		
Do not respond to any client computers	101 🔺	
Hespond only to known client computers	ect	
Bequire administrator approval for unknown computers. When you select	t this option you must	
approve the computers using the Pending Devices node in the snap-in. A added to the list of prestanced clients	Approved computers will be Off	
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To configure this server, click Next.		
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If you get the following message saying Windows Deployment Service did not start in a timely fashion, click **Finish**.
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Right-click on PLABDC01.PRACTICELABS.COM and choose All Tasks > Start.

Click **OK** when the system says the service was successfully started.

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Task 2: Add Install image in WDS

In this task you will add Windows 8.x DVD image that will be rolled out for new client computers.

Step 1

Right-click on Install Images and choose Add Install Image...

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In Image Group page, click in Create an image group named box and type

Windows81-Image



In Image File page, type

D:\sources\install.wim



In Available Images page, find Windows 8.1 Enterprise Evaluation added.



In Summary page, click **Next**.

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Selected images:	101
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To change your selection, click Back. To add the selected images to the server, click Next.	
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Wait while the image is being added to WDS server.

This may take a few minutes.



Click Finish when operation is complete.

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Task 3: Add Boot Image

In this task you will add a boot image that will be used to boot bare metal computers to connect to WDS server.

Step 1

Under PLABDC01.PRACTICELABS.COM, right-click on Boot Images and choose Add Boot Image.

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In Image File page, type

D:\sources\boot.wim

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Delabloot.practiceLabs.com image Name Arcnitecture status sepanaea size Date Use Use	al Switch Manager
A installinages	al SAN Manager
Boot Images	Þisk
 b B Pending Devices image rue image rue 	ct Disk
b 🔂 Drivers	Service
Cartive Directory Prestaged Devices Enter the location of the Windows image file that contains the images to add.	ove Server
File location	sh
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Note: The default boot and install images (Boot wim and Install wim) are located on the installering DVD in the Vis our rest folder.	101
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More information about images and image types	igs
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From Image Metadata, click **Next**.

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A Constal Images Add Image Wirard X	al SAN Manager
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Microsoft Windows Setup (x64)	.01 🔺
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From Summary page, click **Next**.

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Wait while the boot image is added.

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Click **Finish** when the operation is completed.

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Task 4: Add Driver packages

You can add driver packages which are downloaded separately and integrate them with WDS

Step 1

From PLABDC01.PRACTICELABS.COM, right-click **Drivers** folder and choose **Add Driver Package**.

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In Driver Package Location page, click **Select all driver packages from a folder** option.

Click in Location box and type

D:\sources



The system will read the driver files located in the directory.

Click **Next** when it becomes available.

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From Summary page, click **Next**.

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In Task Progress page, click **Next**.

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From Driver Groups page, select **Do not put the driver packages at this time**.



In Task Complete page, click Finish.

Minimize Windows Deployment Services.



Task 5: Configure DHCP to support WDS

Step 1

Reopen Server Manager and go to **Tools** > **DHCP**.



Expand plabdc01.practicelabs.com > IPv4.

Right-click on Scope [192.168.0.0] and choose Properties.

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In Scope [192.168.0.0] PLAB Properties, click Both.

Click **OK** and close DHCP Manager.

Minimize PLABDC01 window.

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Task 6: Apply the image on a new computer

Step 1

Switch to PLABHYPERV host, reopen Hyper-V Manager.

Right-click on **PLABWIN803** and choose **Settings**.



On Settings for PLABWIN803, click Add Hardware.

On Details pane, select Legacy Network Adapter and then click Add.



The Legacy Network Adapter will automatically be added.

On right details pane, go to Virtual switch section change it to PLAB-Private.

Click **OK** to save settings.



Right-click on PLABWIN803 and choose Connect.



Click Start (green) button.

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		💱 Virtual Switch Manager
		🧕 Virtual SAN Manager
	The virtual machine 'PLABWIN803' is turned off	💋 Edit Disk
	To start the state of an obligation of the Oliver the Antise second	📇 Inspect Disk
	To start the virtual machine, select start from the Action menu	Stop Service
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		🔍 🔉 Refresh
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		Delete
		Enable Replication
		Help
	PLABWIN803	
	Created: 01/07/1601 00:00:00 Clustered: No	
	Generation: 1	
	Notes: None	
	Summary Memory Networking Replication	
		Image: Control of the second secon

PLABWIN803 boots up and will contact DHCP to lease an IP address.

Press F12 when prompted.

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CLIENT MAC ADDR: OO 4E ED OO O1 OR CUID: ODOODADE ER26 AED2 OF4C COD2EEEDCAE	00:17	💫 Import Virtual Machine
CLIENT IP: 192.168.0.201 MASK: 255.255.0 DHCP IP: 192.168.0.1		👔 Hyper-V Settings
GATEWAY IP: 192.168.0.250	00:18	🐔 Virtual Switch Manager
Downloaded WDSNBP from 192.168.0.1 PLABDC01.PRACTICELABS.COM		🧕 Virtual SAN Manager
Press F12 for network service boot		💰 Edit Disk
Architecture: x64		📇 Inspect Disk
Contacting Server: 192.168.0.1. IFTP Download: bootx64Npxeboot.n12		Stop Service
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Version: 5.0	Heartbeat: No Contact	🕐 Help
Generation: 1	Integration	
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Current Memory Networking Benjication		
		 P Us 03:54 22/04/2014

Boot files will now be loaded. This may take a few minutes.



Windows graphical setup begins.



From Windows Deployment Services screen, click Next.

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When asked for user credentials, type

Practicelabs\administrator

Passw0rd

Click OK.

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	N803
Enter your user name in the format domain user or user @domain.com.	ect
User name: O practice/abs/administrator	igs
Password:	Off
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OK Cancel	
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WDS will display the available install images from PLABDC01.

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In Where do you want to install Windows page, select **Drive 0** and click **Next**.
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The system will initialize file copying.



Installation of Windows begins. This will take a few minutes.



Windows will automatically restart after this step.

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Like a regular Windows setup, devices will be initialized.

Windows will restart a few times during setup.



From Region and Language page, click **Next**.



From License Terms page, click I accept.



In Settings page, click Use express settings.

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We recommend these settings, which include occasionally sending info to Microsoft. You can customize these settinge now or later	ct Disk
actings now of later.	Service
Automatically install Windows updates, app updates, and device software.	sh
Turn on Do Not Track in Internet Explorer.	· · · · · · · · · · · · · · · · · · ·
 Help protect your PC from unsafe files, apps, and websites, and check online for solutions to problems. 	
 Help improve Microsoft software, services, and location services by sending us into. 	N803
 Use sing to get search suggestions and web results in windows search, and let Microsoft use your location and other info to bersonalize your experiences. 	ect
 In Internet Explorer, use page prediction to preload pages, which sends your browsing history to Microsoft. 	igs
Let Windows and apps use your name, account picture, advertising ID, and other domain info, and request your	Off
location from the Windows Location Platform.	Down
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Use <u>express settings</u> <u>Customize</u>	
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Setup will attempt to connect to the Internet but will not be able to do so.

In Your account page, click **Create a local account**.



In Your account page, use the following values:

User name: Student2

Password: Passw0rd

Reenter password: Passw0rd

Password hint: Practice Labs password

Click Finish.



Click Ctrl Alt Delete button.



In Windows logon page, use the following credential to sign on

.\Student2

Passw0rd

Press Enter.



Windows will setup the computer for first use by the user.



Windows start screen is now available.

Click Desktop tile.



Click File Explorer on task bar.

Right-click This PC and choose Properties.



Find the system information about this computer.

Note: In an organization a computer name can be changed based on the naming system adopted by your network.



Click Action menu and choose Revert.



Click Revert.

Close PLABWIN803 window.



Keep PLABHYPERV host in its powered on state and proceed to the next exercise.

Exercise 2 – Update Images with Patches and Drivers

Windows Assessment and Deployment Kit (WADK) is a suite of utilities that you can use to customise, assess and rollout Windows operating systems to new computers.

Please refer to your course material or use your preferred search engine to research this topic in more detail.

Task 1: Prepare Windows Image for customization

Step 1

From PLABHYPERV host, click File Explorer on task bar.

Go to New Volume (D) and create the following folders:

images

mount

updates

drivers



Go to **Drive F** and navigate to **\sources** folder. Right-click on **install.wim** and choose **Copy**.

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E Desktop	Install.wim	22/08/2013 20:51	WIM File	3,139,078 KB1	Onen with		
Documents Documents	installeventres.dll	22/08/2013 20:51	Application extens	5			
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🍙 New Volume (D:)	🚳 luainstall.dll	22/08/2013 20:51	Application extens	49 KB			
DVD Drive (E:) IRM_SSS_X64FREE_EN-US_DV5	📄 migapp.xml	22/08/2013 20:51	XML Document	584 KB			
DVD Drive (F:) IRM_CENA_X64FREE_EN-US_D	🚳 migcore.dll	22/08/2013 20:51	Application extens	7,626 KB			
🌽 boot	🔂 mighost.exe	22/08/2013 20:51	Application	274 KB			
퉬 efi	🚳 migisol.dll	22/08/2013 20:51	Application extens	125 KB			
Sources	🚳 migres.dll	22/08/2013 20:51	Application extens	7 KB			
🎍 support	🚳 migstore.dll	22/08/2013 20:51	Application extens	1,126 KB			
	🚳 migsys.dll	22/08/2013 20:51	Application extens	363 KB			
Network	🚳 migtestplugin.dll	22/08/2013 20:51	Application extens	39 KB			
	🚳 msxml6.dll	22/08/2013 20:51	Application extens	1,752 KB			
	🚳 msxml6r.dll	22/08/2013 20:51	Application extens	2 KB			
	🚳 mxeagent.dll	22/08/2013 20:51	Application extens	296 KB			
	🚳 ndiscompl.dll	22/08/2013 20:51	Application extens	100 KB			
	🚳 nisbres.dli	22/08/2013 20:51	Application extens	58 KB			
	🚳 ntdsupg.dll	22/08/2013 20:51	Application extens	24 KB			
	🗟 ntfrsupg.dll	22/08/2013 20:51	Application extens	43 KB			
	nxquery.cat	22/08/2013 20:51	Security Catalog	6 KB			
	nxquery.inf	22/08/2013 20:51	Setup Information	2 KB			
	🚳 nxquery.sys	22/08/2013 20:51	System file	5 KB			
	🕋 offline.xml	22/08/2013 20:51	XML Document	33 KB			
	📄 oscomps.woa.xml	22/08/2013 20:51	XML Document	244 KB			
	escomps.xml	22/08/2013 20:51	XML Document	425 KB			
	osfilter.inf	22/08/2013 20:51	Setup Information	21 KB			
	outofbox windows db.bin	22/08/2013 20:51	BIN File	5 KB			
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Step 3

Paste **install.wim** in **D:\images** folder. This may take a few seconds to complete.



Minimize File Explorer.

Launch Internet Explorer. Go http://intranet/Resources/Tools/Windows81

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[To Parent Directory] 4/22/2014 12:21 PM 235741203 Windows8.1-KB2883200-x64.msu		
4/22/2014 12:10 PM 3522219 <u>Windows8.1-KB2894029-a64.msu</u>		
4/22/2014 12:28 PM 2210674 <u>Windows8.1-KB2894179-x64.msu</u>		
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Download the three standalone updates .msu and save them in **d:\updates** folder.

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4/22/2014 12:21 PM 2357412 4/22/2014 12:10 PM 35232	Organize 🔻 New folder 🛛 🕮 👻 🍘	
4/22/2014 12:28 PM 22106	Documents A Name Date modified Type	
	No items match your search. Pictures Pictures <td>_</td>	_
Do you want to oper	en or save Windows8.1-KB2883200-x64.msu (224 MB) from intranet? Open Save 🔻 Cancel 🗴	~
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Minimize Internet Explorer after downloading the updates.

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4/22/2014 12:10 PM 3523219 <u>Windows8.1-KB2994029-x64.msu</u> 4/22/2014 12:32 PM 2210624 <u>Windows8.1-KB29941029-x64.msu</u>	
The Windows8.1-KB2894179-x64.msu download has completed.	
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Task 2: Use DISM to customize images

Deployment Image and Servicing Management (DISM) is tool that can be used for updating the .wim image file for patches and drivers.

Step 1

Click on PowerShell icon on taskbar. You will mount the **install.wim** file that you copied from the DVD media into \mount folder using dism.exe.

Type the following:

dism /mount-wim /wimfile:d:\images\install.wim /index:1 /mountdir:d:\mount

Minimize Windows PowerShell.



Restore File Explorer.

After mounting the .wim image, you will see them as a set of folders in d:\mount directory.

Minimize File Explorer.



Restore PowerShell prompt and type

dism /image:d:\mount /add-package /packagepath:d:\updates

Note: This may take a few minutes.

You have just added the three standalone updates to the offline image. Minimize PowerShell.



Task 3: Add a Device Driver to Offline Image

Step 1

On PLABHYPERV, open Internet Explorer and go to

http://intranet/Rescources/Tools/Misc/

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intranet - /Resources/Tools/Misc/	
[To Parent Directory]	
8/7/2008 9:53 PM 371230904 .net sdk.exe	
1/17/2014 12:21 PM 262041840 <u>332.21-desktop-win8-win7-winvista-64bit-international-whgl.exe</u>	
2/23/2009 5:19 PM 949959 <u>3cdv2r10.zip</u>	
2/23/2009 4:16 PM 939956 /2465.exe	
//20/2010 10:10 2M = 20/136 Parts	
1/21/2010 10:19 AM 394/28 Bglino.21p	
12/13/2013 10:56 AM 14649344 <u>ComplianCeAnalySistExportReport.ms1</u>	
2/1/2003 12:19 PM 532522 COPELDITE: EXE	
10/20/2013 11:30 Min 17:00 Coustres.exe	
1/3/2014 7.41 DM 700 File typ	
2/15/2019 / 11 PM / 22 File/ills Server-0 9 30 eve	
7/7/2008 9:15 M 2022/3 Firefox Setur 1 0.8 eve	
4/8/2013 12:18 RM 20141840 Firefox Setup 10.0 exe	
4/8/2013 12:17 PM 14811082 Firefox Setup 20.0 exe 4gg258u partial	
7/6/2008 7:23 PM 7330864 Firefox Setup 3.0.exe	
4/11/2010 9:50 PM 5161024 firefox15012 exe	
4/11/2010 10:29 PM 5113904 firefox1502.exe	
4/11/2010 10:12 PM 6026816 firefox20011.exe	
4/11/2010 10:16 PM 8050536 firefox352.exe	
2/21/2013 10:57 PM 628447120 GRMWDK EN 7600 1.zip	
10/28/2013 12:06 PM 5267 leakyapp.zip	
10/24/2013 4:05 PM 500331 LegacyApps.zip	
2/21/2013 10:07 PM 18355 makecert.zip	
2/12/2014 1:40 PM 121052120 netsim9.exe	
8/2/2012 1:10 PM 408 New Text Document (2).txt	
9/25/2013 5:42 PM 137887480 <u>NwInvestigatorSetup.exe</u>	
8/17/2007 9:18 AM 9456671 paperlessprinter 3[1].0_setup.exe	
4/12/2010 10:01 AM 27024112 PowerPointViewer.exe	
4/11/2010 11:24 PM 2817176 ppview97.exe	
4/14/2010 8:13 PM 1951432 ppviewer.exe	
3/2/2010 2:22 PM 454656 putty.exe	~
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332.21-desktop-win8-win7-winvista-64bit-international-whq

When prompted choose **Save As**.

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In Save As dialogue box, go to d:\drivers folder, then click Save.

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When download is complete, click **Open folder**.

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Step 5

Right-click on **332.21-desktop** file and choose **Run as administrator**.



Change the Extraction path to d:\drivers and click OK.



Wait while the system extracts the contents of the driver.

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As expected the driver will not be compatible with the system.

Click **Close**. Minimize File Explorer.



Step 9

Reopen PowerShell and type the following:

Dism /image:d:\mount /add-driver /driver:d:\drivers\display.driver\nv_dispi.inf

Note: We are assuming that nvidia is the driver being used by Windows 8.1. The use of the above driver is for illustrative purposes only.



After adding the update and the driver, you can commit those changes by typing the following:

dism /commit-wim /mountdir:d:\mount



Once the changes have been committed, you can unmount the folders and put them back in the .wim image file.

Туре

Dism /unmount-wim /commit /mountdir:d:\mount



Shut down PLABHYPERV host to revert it to its default settings using Practice Labs web application. Alternatively, you can sign out of the lab platform to turn off the virtual machines.

Summary

In this lab, you learnt how to create different type of images for simplified roll out of Windows 8.1 to a network. An install image could be the DVD image of a Windows 8.1 installer which can be used for manual installation of the operating system. A boot image coming from a Windows 8.1 DVD is used by new computers to boot from the network and connect to the WDS install image available on the server.

Windows Assessment and Deployment Kit – WADK includes dism.exe. Deployment Image and Service Management tool is used for managing windows image files .wim for adding operating system updates and device drivers.