Microsoft Deployment Toolkit

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MDT Prerequisites

- Microsoft Deployment Tool Kit (MDT) Windows 10
 - v. 6.3.8330.100
- Windows Assessment and Deployment Kit (Windows ADK) Windows 10
 - Note: Make sure the ADK version is paired with the appropriate MDT version or the Deployment workbench will not run

MDT Prerequisites

- Deployment Share for Import is:
- WIN10-ZEBRA-R1.0-00X-X64-DeploymentShare.zip
- MDT Components for building a Deployment Share from Scratch is :
- WIN10-ZEBRA-R1.0-00X-X64-Components. zip

Building a Deployment Share

Launch Deployment Workbench (Read the overview)



Configure New Deployment Share

Right click **Deployment Shares** in the left navigation and select **New Deployment Share**



• Change the deployment share path

New Deployment Sha Open Deployment Sh	re 🧲 are
View	,
Refresh	
Export List	
Help	

• Set Deployment Share Name



• Set Deployment Share Description

	New Deployment Share Wizard
Descriptive	Name
Path Share Descriptive Name Options Summary Progress Confirmation	Specify a descriptive name for the deployment share. Deployment share description: MDT Deployment Share
	image Com Previous Next Cancel

• Set deployment Share Options

	New Deployment Share Wizard	×
Options		
Path Share Descriptive Name Options Summary Progress Confirmation	When performing deployments, the behavior of the Deployment Wizard can be customized by turning various wizard panes on or off. For those that are not desired, modify the defaults below as appropriate Ask if a computer backup should be performed. Ask for a product key. Ask to set the local Administrator password. Ask if an image should be captured. Ask if BitLocker should be enabled.	1
	image Courtesy NVCE com Previous Next Cancel	

• Review Summary

	New Deployment Share Wizard	×
Summary		
Path Share Descriptive Name	All of the necessary details have been specified. Please review the values below. Details:	
Progress Confirmation	Path:C:\Deployment ShareUpgrade:FalseShareName:Deployment Share \$Description:MDT Deployment ShareAsk about Backup:FalseAsk for Product Key:FalseAsk for Admin Password:FalseAsk about Image Capture:FalseAsk about BitLocker:False	
	Click next to execute the requested action.	el

• Finish and Generate



MDT Service Account

 Go to Computer Management. Expand Local Users and Groups and right click Users to select New User:

2 Computer Management	X
File Action View Help	
Computer Management (Local Xame Xingle System Tools Syste	Actions Computer Manageme A More Actions
Werk Userk Image: Solution of Solution Image: Solution Image: Solution	
 ▶ ₩ Windows Server Backup 	
Creates a new Local User account.	

Deployment Share Properties

MDT Service Account Create Local User and set password to "Never expirer"

		New User	?	x
User name:	MD1	ſ		
Full name:				
Description:				
Password:				
Confirm password	d:	······ č	3	
User must ch User cannot o Password ner Account is dis	ange p change ver exp sabled	assword at next logon password ires		
Help	ii cou	nage rtesy		ose

• Identify Share Folder Right Click

li -	DeploymentShare Properties			×	
General	Sharing	Security	Previous Versions	Customize	
Netwo	ork File and	d Folder Sh	aring		-
	Deploy	ymentShar d	e		
Netwo	ork Path:	Danla	mant Change		
S	hare	i u i vuepioj	ymentonarea		
	0128 2				
Advar Set ci	ustom perr	ng nissions, cr	eate multiple shares	and set other	
advar	nced shari	ng options	~		
8	Advance	d Sharing.			
			0.0		
		Ingalaya			
	(0.0)	UI CI	Dise Cance	Appl	у

• Set Permission

Advanced Sharing	Permissions for DeploymentShare\$
Share this folder	Share Permissions Group or user names:
Settings Share name:	Revervone Everyone
DeploymentShare\$	
Add Remove Limit the number of simultaneous users to: 16777 🗸	Add Remove Permissions for Everyone Allow Deny
Comments: MDT Deployment Share	Full Control Image Change Image Read Image
Permissions Caching	
Cancel Apply	OK Cancel Apply

• Click Security Tab and review permissions

	ng Seconty	Frevious versions	Customize	
Object name:	C:\Deploym	ientShare		
Group or user	names:			
CREATO	ROWNER			
SYSTEM	an man set a se			
Administr	ators (WS12R	2MDT01\Administrat	tors)	
Users (W	S12R2MDT0	1\Users)		
Taskasaa	antesta se altal	- Eda	2	
ro change pe	missions, clici	CEGIL.	Edit	
Permissions fo	r Users	Allov	w Deny	ŝ.
Full control				^
Modify				
Read & exe	cute	~		=
List folder c	ontents	4		
Read		1		
Write				~
For special pe	missions or ac	lvanced settings,	Advanced	ł

Set share Rules



DT Deployment Share (C:\DeploymentShare) Properties	
General Rules Vindows FE Monitoring	
[Settings] Priority=Default Properties=MyCustomProperty	*
[Default] OSInstall=Y SkipCapture=NO SkipAdminPassword=YES SkipProductKey=YES SkipComputerBackup=NO	
SkipBit Locker=NO	
	*
	Edit Bootstrap.ini
	OK Cancel Apply Help

- Edit Boot.ini
- Remove:
- UserID=MDT

 UserDomain=WS12R2MDT01
 UserPassword=P@ssw0rd01
 KeyboardLocale=en-US
 SkipBDDWelcome=YES
- Save the file to Deployment Share



Set Deployment Share Rules

In the Deployment workbench go to the Deployment share and then New Applications



Set application type



Import Applications

Set application details



Set application source



Set Destination directory



 Set Command Line instructions to install application on target host/Hosts



Review application summary



Confirm & finish



Import The OS Image

Mount the operating system ISO and record the path



 In the Deployment workbench go to the share and operating system



• Select full set of source files



• Point to the source directory



Name the Destination Directory



• Review the summary

	Import Operating System Wizard	×
Summary		
OS Type Source Image	All of the necessary details have been specified. Please review the values below. Details:	
Setup WDS Server Destination	OSType: SOURCE OSDestination: Windows Server 2012 R2	
Summary Progress	OSSource: E:\ MoveOS: False	
Confirmation		
	Click next to execute the requested action.	ncel

View confirmation



• Import The drivers

Go the MDT Workbench and Deployment Share and select Out Of Box drivers



• Specify the source directory for the drivers



.Configure Task Sequence

Hit next and Import the drivers

Deployment Workbench	Name		Manufacturer	Version	Actions
Information Center Deployment Shares	mport Driver Wizard		Real of the local division of the local divi	-	
 Applications Operating Systems Out-of-Box Drivers Packages 	Confirmat	ion			
 Task Sequences Advanced Configuration Monitoring 	Specify Directory Summary Progress Confirmation	The process co	ompleted with 4 warnings.		
		Scanning directories for the Performing operation "importantion" important on the Performing operation and the Creating new item named Creating new it	he count of INFs to import. sort" on Target "Out-of-box drivers". I OEM Oy System bck.LightBus inf 11.3 I Broadcom Corporation System BcmGr I Broadcom Corporation System BcmGr I Broadcom Corporation Sensor BcmGr I Arisstitc.inf 603.9600.1948.39559 dc I Intel MEDIA isstitc.inf 603.9600.1948 I Intel MEDIA isstitc.inf 603.9600.1948 I Intel MEDIA isstrict.inf 603.9600.1948 I Intel Corporation System ims.175.inf 61 I Intel Corporation System ims.175.inf 61 I Intel Corporation System ov.5593.inf 6 I Intel Corporation System ov.5593.inf 6 I Intel Corporation System vo.5993.inf 6 I Intel Corporation System iaiogolice.inf I Intel Corporation System I Intel System I Int	3.32.18 at DS001:\Out ssBus.inf 20.22.0405. issLocationSensor.inf 2 es not appear to suppo 39559 at DS001:\Out 395791 at DS001:\Out 3.9600.1948.39791 at 33.9600.1948.39791 at 33.9600.1948.39791 at 33.9600.1948.39791 at 33.9600.1948.39791 at 30.9600.1948.39791 at ar to support platform x8 001:\Out-of-Box Driver 603.9600.1948.3954 at DS3.9600.1948.3054 at DS3.9600.1948.29470 at	of-Box Drivers at DS001:\{ at DS001:\{ bt platform x8t of-Box Drivers of-Box Drivers of-Box Drivers of-Box Drivers DS001:\Out- DS001:\Out- DS001:\Out- bas indicated s. at DS001:\Out- bas indicated s. at DS001:\Out- of-Box DS001 001:\Out-of-Box D DS001:\Out- bas DS001 001:\Out- bas DS001 001:\Out- bas DS001 001:\Out- bas DS001 Cout- bas DS001 Cout- Cou
			Previo	us Finish	Cancel

Configure Task Sequence

Go to the Deployment Workbench and select Task Sequence in the deployment share



• Set general settings

	New Task Sequence Wizard	×
General Select OS Select Template Select OS Specify Product Key OS Settings Admin Password Summary Progress Confirmation	Settings Specify general information about this task sequence. The task sequence ID is used internally as part deployment process. The task sequence name and comments are displayed by the deployment wizar Task sequence ID: EPLOY-WS2012R2 Task sequence name: Deploy Windows Server 2012 R2 Task sequence comments:	x of the d.
	image courtesy ICE CO Previous Next Cancel	

• Select Template



Select OS



• Specify whether to use Product Key or not

	New Task Sequence Wizard	×
General Settings Select Template Select OS Specify Product Key OS Settings Admin Password Summary Progress Confirmation	New Task Sequence Wizard Ict Key O not specify a product key at this time. A product key is not required when deploying Windows 7. Windows Server 2008 R2, or later OS versions, or if the product key will be specified at deploy time using the wizard or a rule. Specify a multiple activation key (MAK key) for activating this operating system. In order to activate, each computer deployed using this MAK key will need to contact the Microso activation service on the internet. This is only supported for Windows 7 and later operating system when using volume license media. MAK Product Key:	
	Product Key:	

Specify OS Settings

	New Task Sequence Wizard	x
OS Settings		
General Settings Select Template Select OS	Specify settings about this task sequence. These settings will be used for all deployments of this task sequence, unless overridden during the deployment process using the wizard or a rule.	
OS Settions	youngtech	
Admin Password		
Summary	Organization:	
Progress	youngtech	
Contimation		
	Internet Explorer Home Page:	
	www.tvce.com	
	Intege Concernation Next Cancel	

Set Admin Password



• View Summary

	New Task Sequence Wizard	×
Summary		
General Settings Select Template Select OS Specify Product Key OS Settings Admin Password Summary Progress Confirmation	All of the necessary details have been specified. Please review the values below. Details: Task SequenceID: DEPLOY-WS2012R2 TaskSequenceName: Deploy Windows Server 2012 R2 Template: Server xml Operating System: Windows Server 2012 R2 Datacenter.wim FullName: youngtech OrgName: youngtech HomePage: www.itvce.com AdminPassword:	
	Click next to execute the requested action.	ncel

· Update The Deployment share

Right Click on the Deployment Share and select update



Set Options

File Action View Hep Deployment Wizard When updating the deployment abare, the latest tools will be copied to the deployment abare. F any changes these beamage to the boot image settings or to the content that needs to be included in the boot image. Progress Confirmation Progress Confirmation Progress Confirmation Progress Confirmation Optimize the boot image contents to recover space used by removed or modified content. Completely regenerate the boot images. Completely regenerate the boot image. Provous Next Cancel	DeploymentWork	kbench - [Deployment Workbench\[Deployment Shares\MDT Deployment Share (C:\DeploymentShare)\Task Sequences]		
Update Deployment Wight Deployment Share Wight Options Deployment Wight Options Deployment Wight Options Deployment Share Updating the deployment share, the latest tools will be copied to the deployment share. If any changes Deployment Share Updating the deployment share, the latest tools will be copied to the deployment share. If any changes Deployment Share Updating the deployment share, the latest tools will be copied to the deployment share. If any changes Deployment Share Updating the deployment share, the latest tools will be copied to the deployment share. If any changes Deployment Share Updating the deployment share, the latest tools will be copied to the deployment share. If any changes Deployment Share Updating the deployment share, the latest tools will be copied to the deployment share. If any changes Deployment Share Updating the deployment share, the latest tools will be copied to the deployment share. If any changes Deployment Share Updating the deployment share, the latest tools will be copied to the deployment share. If any changes Deployment Share Updating the deployment share the boot images, or to compress the existing boot Deployment the boot image contents to recover space used by removed or modified content. Deployment Share Updating the deployment share the boot images. Deployment the boot image contents to recover space used by removed or modified content. Deployment the deployment share the boot image con	File Action Vie	w Help			
Image: polyment W Image: Deployment H		Update Deployment Share Wizard			
Completely regenerate the boot images	Deployment W Deployment W Deployment Deployment Deployment Deployment Deployment Deployment Deployment W Deployment W	Options		e	-
Previous Next Cancel	 ► Ope ► Qut ► Pac ► Tas ► Adv ► Mot 	Options Summary Progress Confirmation	When updating the deployment share, the latest tools will be copied to the deployment share. If any changes have been made to the boot image settings or to the content that needs to be included in the boot image. If necessary, you can choose to completely regenerate the boot images, or to compress the existing boot Optimize the boot image updating process. Compress the boot image contents to recover space used by removed or modified content.		
			Previous Next Cancel		
		4			
					-

• Review Summary

DeploymentWor	kbench - [Deployment Workbench\D	eployment Shares\MDT Deployment Share (C:\DeploymentShare)\Task Sequences]	
File Action Vie	ew Help		
	Update Deployment Share Wizard		1
Informatio	Summary		e
 ▷ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Options Summary Progress Confirmation	All of the necessary details have been specified. Please review the values below. Details:	
⊳ 🛅 Moi		Force: False Compress: False	
-		Previous Next Cancel	

• Update the Share

e Action Vie	ew Help		
Deployment W	Update Deployment Share Wizard		×
Informatio Deployment Organization Deployment App	Progress		= (C:\Deploy nt Share Share
 □ □ Ope □ □ Out □ □ Pac □ □ Tas □ Adv □ □ Adv □ □ Mos 	Options Summary Progress Confirmation	Cleanup complete	
		Loading the existing boot image profile for platform x86. Calculating hashes for requested content. No changes were made, existing boot images will be kept. === Completed processing platform x86 === === Making sure the deployment share has the latest x64 tools === === Processing LiteTouchPE (x64) boot image ===	
		Building requested boot image profile. Determining if any changes have been made in the boot image configuration. Loading the existing boot image profile for platform x64. Calculating hashes for requested content. Stop Execution	-
l		Previous Finish Cancel	
	III		

View LiteTouchX86 & LiteTouchX64 ISO & WIM Files in Deployment Share

 Generated ISO & WIM files to integrate with WDS or SCCM



Generating Media Install for USB

Select Advance Configuration\Media\New Media



Select the MDT-Media Folder to store the deployment Files



Click Finish and the install files will saved to MDT-Media folder



Copy the entire contents of the "Content Folder" to a USB formatted as Fat32 and the media is ready to use



Importing an existing MDT Deployment Share

- Source Files are located in:
 - WIN10-ZEBRA-R1.0-00X-X64-DeploymentShare Go the source Files for the Deployment Share and give the top-level Folder A Unique Name



Copy The Renamed Deployment

share to your C: Drive



Go to the Deployment Workbench and Right Click on The deployment Share folder





Browse to C: Drive and select your renamed Deployment Share

The imported Deployment Share will be displayed in the Deployment Share folder



Generate Media Install for Existing Deployment Share

- In the open deployment share, browse to Advanced Configuration / Media, right-click MEDIA001 and select "Update Media Content". This will create directory C:\MDT_MEDIA.
- On Windows Explorer, browse to directory "Control" under the extracted deployment share. Copy the file CustomSettings.ini to directory C:\MDT_MEDIA\Content\Deploy\Control, replacing the default configuration file. Format an USB disk with FAT32 and copy all the files under C:\MDT_MEDIA\Content\ to the empty disk.
- See Also Generating Media Install for USB