#### Microsoft Deployment Toolkit

# Agenda

- MDT Prerequisites
- Building a Deployment Share
  - <u>Configure New Deployment Share</u>
  - <u>Deployment Share Properties</u>
  - Import Applications
  - Import The OS Image
  - Import The drivers
  - Import The OS Image
  - Import The drivers
  - <u>Update The Deployment share</u>
  - View LiteTouchX86 & LiteTouchX64 ISO & WIM Files in Deplo...
- <u>Microsoft Deployment Toolkit Deploying with Media</u>
- Importing an existing MDT Deployment Share
- Generate Media Install for Existing Deployment Share

## **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
- All MDT and ADK install files are located at <u>https://zebra.app.box.com/files/0/f/8324200277/MDT</u>

## **MDT Prerequisites**

- Deployment Share for Import is located on Box:
  - WIN10-ZEBRA-R1.0-00X-X64-DeploymentShare (1)
- MDT Components for building a Deployment Share from Scratch is located on Box:
  - WIN10-ZEBRA-R1.0-00X-X64-Components

Contact Katyayani D[ JBNQ43@zebra.com] for latest release of these components.

## **Building a Deployment Share**

Launch Deployment Workbench (Read the overview)

	DeploymentWorkbench - [Deployment Workbench]	- 🗆 X
File Action View Help		
<ul> <li>Deployment Workbench</li> <li> Deployment Shares </li> </ul>	Microsoft Option Accelerators Display Control	Actions Deployment Wor A View A Refresh Help
Done	courtesy TVCE.com	

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

New Deployment Shar Open Deployment Sha	
View	,
Refresh Export List	
Help	

Change the deployment share path

New Deployment Share Open Deployment Share	
View	
Refresh Export List	
Help	

• Set Deployment Share Name

	New Deployment Share Wizard	×
Share		
Path Share Descriptive Name	Specify the share name to be used with the specified local path. If the share already exists on this computer, it must point to the path specified for this deployment share.	
Options Summary	Deployment Share S	
Progress Confirmation	Full path UNC path: \\WS12R2MDT01\DeploymentShare\$	
	COULTESY TYCE CO Previous Next Cancel	

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 Revious 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.
	image Com Previous Next Cancel

• Review Summary

	New Deployme	nt Share Wizard 🛛 🗙
Path Share Descriptive Name Options Summary Progress Confirmation	All of the necessary details have been specified. Please review the values below. Details:  Path: C:\Deployment Share Upgrade: False Share Name: Deployment Share \$ Description: MDT Deployment Share Ask about Backup: False Ask for Product Key: False Ask about Backup: False Ask about Image Capture: False Ask about Image Capture: False Ask about BitLocker: False	
	Click next to execute the request	sted action.

• Finish and Generate

	New Deployment Share Wizard	×
Confirmation		
Path Share Descriptive Name Options	The process completed successfully.	
Summary Progress Confirmation	Creating share "Deployment Shares" with path 'C:\Deployment Share'. Share created successfully. Performing the operation "New drive" on target "Name: DS001 Provider: MicrosoftDeploymentToolkit\ Performing the operation "new" on target "deployment share". Initializing a new deployment share Initializing scripts and tools. Performing the operation "open" on target "deployment share". Deployment share at 'C:\Deployment Share' opened successfully. Adding MDT drive DS001 to the persisted drive list. Successfully added MDT drive DS001 to the persisted drive list.	MI
		>
	Save Output View Script	
	image Com Previous Finish Cancel	]

#### **MDT Service Account**

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



#### **MDT Service Account**

 Create Local User and set password to "Never expirer " New User

		New User	r x
User name:	MDT	ř.	
Full name:			
Description:			
Password:			
Confirm passwor	rd:		3
User must ch	nange p	assword at next logon	
User cannot			
Password ne			
Account is di	isabled		
	100		
Help			Close

## **Deployment Share Properties**

• Identify Share Folder Right Click

General	Sharing	Security	Previous Versions	Customize
General		Jocumy		Guacomize
Netwo	ork File and	Folder Sh	aring	
		mentShare	e	
	Shared	d		
	ork Path:			
\\WS	12R2MD1	T01\Deploy	mentShare\$	
S	hare			
Advar	nced Shari	na		
Set c	ustom perm	nissions, cr	eate multiple shares	, and set other
Set c	ustom perm	1000		, and set other
Set c advar	ustom perm	nissions, cr ng options.		, and set other
Set c advar	ustom pem nced sharir	nissions, cr ng options.		, and set other
Set c advar	ustom pem nced sharir	nissions, cr ng options.		, and set other
Set c advar	ustom pem nced sharir	nissions, cr ng options.		, and set other
Set c advar	ustom pem nced sharir	nissions, cr ng options.		, and set other
Set c advar	ustom pem nced sharir	nissions, cr ng options.		, and set other
Set c advar	ustom pem nced sharir	nissions, cr ng options.		, and set other

## **Deployment Share Properties**

• Set Permission

ihare <mark>this</mark> i ttings	folder
Share nam	e:
Deployme	ntShare\$ v
Add	Remove
Comments MDT Depl	: loyment Share
Permissi	ions Caching

Group or user names:		
	Add	Remove
Permissions for Everyone	Allow	Deny
Full Control Change Read	X X X	
		5

## **Deployment Share Properties**

• Click Security Tab and review permissions

ieneral	Sharing	Security	Previous Versions	Customize		
Object name: C:\DeploymentShare						
Group or user names:						
Sec.	REATOR	WNER				
SY SY	STEM					
			2MDT01\Administra	tors)	_	
AL Us	ers (WS1.	2R2MDT0	1\Users)			
To char	nge permis	sions, click	< Edit.	Edit		
				Colt		
Permiss	ions for Us	sers	Allo	w Deny	8	
Full c	ontrol				^	
Modi	fy					
Read	& execute	е	~		=	
List fo	older conte	ents	1			
Read	ł		1			
Write	<u> </u>				~	
	cial permis Ivanced.	sions or ad	lvanced settings,	Advanced	1	

## Set Deployment Share Rules

• Set share Rules



### Set Deployment Share Rules



## Set Deployment Share Rules

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

     UserDomain=WS12R2MDT01
     UserPassword=P@ssw0rd01
     KeyboardLocale=en-US
     SkipBDDWelcome=YES



• Save the file to Deployment Share

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

🚡 DeploymentWorkbench - [Deployment	Workbench\Deployment Shares\MDT Depl	oyment Share (C:\DeploymentShare)\Applicat	ions]
File Action View Help			
🗢 🔿 🔰 🗟 🛛			
🛱 Deployment Workbench	Name	ShortName	Actions
<ul> <li>Information Center</li> <li>Deployment Shares</li> </ul>	There are no	There are no items to show in this view.	Applications
a 📜 MDT Deployment Share (C:\De	ploymentS		New Application
☐ Applicatio > ↓ Operating New Application	cation		New Folder
Gut-of-Bc New Folde	r		View
Packages     View	•		<b>Refresh</b>
Task Sequ     Advanced     Refresh			Export List
Monitorin Export List.			👔 Help
Help			
	1		
< [ III		4	
Displays Help for the current selection.			

Set application type



Set application details



Set application source



Set Destination directory



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



#### • Review application summary

DeploymentWorkbench - [Deployme File Action View Help	ent Workbench\Deployment Shares\I	MDT Deployment Share (C:\Deployme	entShare)\Applica	tions]
Deployment Workbench	Name New Application Wizard	S	hortName	Actions
MDT Deployment Share (C Applications Operating Systems Out-of-Box Drivers Packages Advanced Configuration Advanced Configuration Monitoring	Summary			
	Application Type Details Source Destination Command Details Summary Progress Confirmation	All of the necessary details have been Details: Application Type: Application Publisher: Application Short Name: Application Source Directory: Move File: Application Destination Directory: Application Command Line: Application Working Directory:	COPY Adobe Adobe Reader Adobe Adobe Read C:\Users\QGJC86 False Adobe Adobe Read SetUp.exe .\Applications\Adol	der ∖Documents∖Applications der
· [				Previous Next Cancel

#### • Confirm & finish

1 🖷	DeploymentWorkbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (C:\DeploymentShare)\Applications]	
is	e Action View Help	
	New Application Wizard	<u></u>
	Informatio Deploymer MDT D Deploymer A pp	-
	▷     Application Type     The process completed successfully.       ▷     Pac     Details       ▷     Tasl     Source       ▷     Adv     Destination	F
	Image: Source of the second details         Summary         Progress         Confirmation    Progress (Confirmation) Progress (C	
	Image: Save Output     View Script	
	Previous Finish Cancel	
	4 III 4 III	
-		

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

	Import Operating System Wizard	x
OS Type Source Image Setup WDS Server Destination Summary Progress Confirmation	Import Operating System Wizard Specify the name of the directory that should be created for these operating system files. Destination directory name: Windows Server 2012 R2	
	courtesy Next Can	cel

• 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 Summary Progress Confirmation	OSType: SOURCE OSDestination: Windows Server 2012 R2 OSSource: E:\ MoveOS: False	
	Click next to execute the requested action.	
		Cancel

• View confirmation



#### Import The drivers

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


#### Import The drivers

• Specify the source directory for the drivers



#### Import The drivers

#### Hit next and Import the drivers



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



• Set general settings



• Select Template



Select OS

	New Task Sequence Wizard	×
Select OS Select Template Select Template Select OS Specify Product Key OS Settings Admin Password Summary Progress Confirmation	The following operating system images are available to be deployed with this task sequence. Select the one to use.         Operating Systems         Windows Server 2012 R2 Datacenter.vins	
	courtesy	

#### • 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	
	image Com Previous Next Cancel

• Specify OS Settings



Set Admin Password



• View Summary

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

 Right Click on the Deployment Share and select update



#### • Set Options

DeploymentWorkbench - [Deployment W	orkbench\Deployment Shares\MDT Deployment Share (C:\DeploymentShare)\Task Sequences]	
File Action View Help		
Update Deployment Sha	re Wizard	<u> </u>
Deploymer     MDT D     Deploymer     App	ns	e
▷     Qpc       ▷     Qut       ○     Out       ○     Pac       Summary       □     Tas       Progress       ▷     Adv	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, those updates will also be made. If necessary, you can choose to completely regenerate the boot images, or to compress the existing boot	•
⊳ 📸 Mor	<ul> <li>Optimize the boot image updating process.</li> <li>Compress the boot image contents to recover space used by removed or modified content.</li> <li>Completely regenerate the boot images.</li> </ul>	
	Previous Next Cancel	
- m		

#### • Review Summary

	💑 DeploymentWo	orkbench - [Depl	oyment Workbench	Deployment Shares\MDT Deployment Share (C:\DeploymentShare)\Task Sequences]	
	File Action Vi	iew Help			
	(中 中) 21 日本 🍰 Deployment W	Update Deploy	ment Share Wizard	×	<u>م</u>
, а г	<ul> <li>Information</li> <li>Deployment</li> <li>Reg MDT Deployment</li> <li>Performant</li> </ul>	5	Summary		e
	▷ 🔍 Ope ▷ 🙀 Out ▷ 🙀 Pac 🙀 Tas ▷ 🧰 Adv ▷ 🙀 Mor	Options Summary Progress Confirmatio	n	All of the necessary details have been specified. Please review the values below. Details: Force: False	
				Compress: False	
				Click next to execute the requested action.	
				Previous Next Cancel	
	•	m			

#### • Update the Share

Deployment W	Update Deployment Share Wizard		×
Information     Deployment     Deployment     MDT Do     Do	Progress		= (C:\Deploy nt Share Share
▷ 🦏 Ope ▷ 🛺 Out ▷ 🮲 Pac ▷ 👬 Tas ▷ 🛄 Adv ▷ 🛅 Mo	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 Executio  Previous Finish Cancel	

## View LiteTouchX86 & LiteTouchX64 ISO & WIM Files in Deployment Share

• Generated ISO & WIM files to integrate with WDS or SCCM



#### Microsoft Deployment Toolkit Deploying with Media

Select Advance Configuration\Media\New Media



Select the MDT\_Media Folder to store the deployment Files



Click Finish and the istall 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