



SIMPLE STEPS FOR IMAGE DEPLOYMENTS USING MDT

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www.sourceonetechnology.com

WHY USE MDT?

- ▶ It's a free product by Microsoft
- ▶ It can be fully customized to match your deployment's workflow
- ▶ Teamed with other Microsoft technologies:
 - ▶ Granular control of clients (*software & settings*) - Layered Deployment
 - ▶ Complete end-user (*files & settings*) automation - USMT
 - ▶ Deploy/Replace/Refresh scenarios can be easily delegated

WHAT YOU WILL NEED

- ▶ Network Prerequisites
 - ▶ DHCP, DNS, and Active Directory (AD) services
 - ▶ Deployment server with WDS role (*each deployment subnet*)
- ▶ Download Requirements
 - ▶ Microsoft Deployment Toolkit (MDT) **Build 8443**
 - ▶ Assessment & Deployment Kit (ADK) **Build 1607**
 - ▶ SCCM Toolkit (CMtrace Log Viewer) (*Optional*) **Version 2012 R2**
 - ▶ Windows and Office Volume License (VL) ISO's from VLSC website

SIMPLE STEPS TO IMAGE DEPLOYMENTS USING MDT

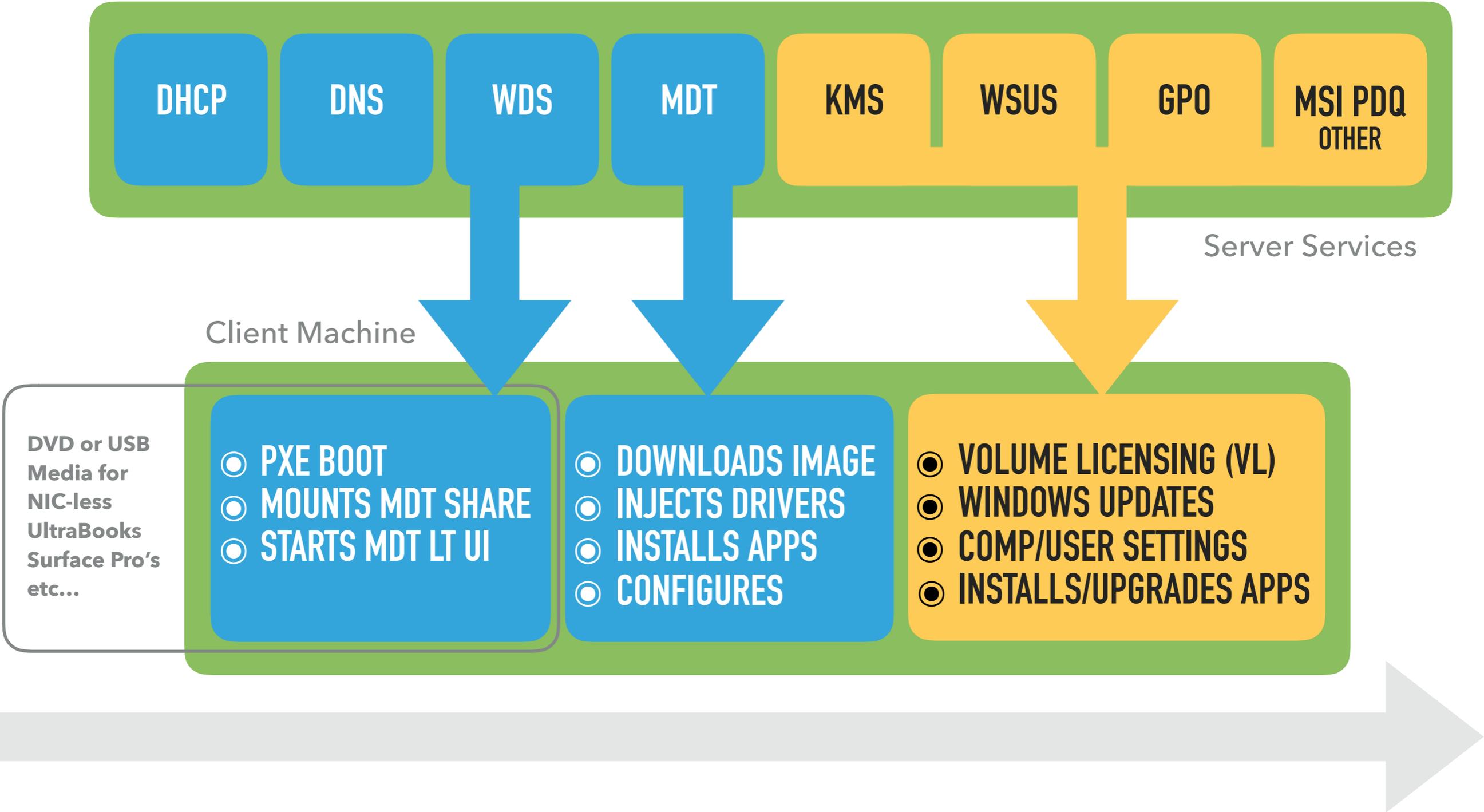
The screenshot displays the 'Virtual Machine Library' window. On the left, under 'VIRTUAL MACHINES', there is a tree view with a 'Brainstorm' folder highlighted in red. This folder contains four virtual machines: 'MDT-SERVER', 'MDT-CLIENT-1', 'MDT-CLIENT-2', and 'MDT-CLIENT-PXE-TEST'. Below this, there is a 'Templates' section with several other VMs listed. At the bottom left, it says 'VMWARE V-CLOUD AIR'.

The main area shows the details for the selected 'MDT-SERVER' VM, which is a 'Windows Server 2016, 64-bit (Build 14393)'. The preview window shows the Windows desktop with icons for Recycle Bin, WDS, VMware Shared Folders, Deployment Workbench, Server Manager, ADUC, and GPM. The taskbar at the bottom of the preview shows the time as 5:52 PM on 2/19/2017.

Below the preview is a 'Notes' section with a text input field. At the bottom of the window, there is a status bar with a blue progress bar and the following information:

- Hard Disks: 48.9 GB
- Snapshots: 0 bytes
- Reclaimable: (indicated by a yellow square)

DEPLOYMENT STEPS OVERVIEW



DOWNLOAD & INSTALL **STEP #1**

ASSESSMENT & DEPLOYMENT TOOLKIT (ADK)

ADK | DOWNLOAD

MDT-SERVER

https://developer.microsoft.com/en-us/windows/hardware/windows-assessment-deployment-kit

Windows ADK downloads - ... x

Microsoft Technologies Documentation Resources

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Download the Windows ADK

This is where you get your Windows Assessment and Deployment Kit (Windows ADK). It has the tools you need to customize Windows images for large-scale deployment, and to test the quality and performance of the system, the added components, and the applications running on the system.

The Windows ADK is now available to Windows Insiders. Join the Windows Insider Program to [get the ADK Insider Preview](#).

Windows ADK for Windows 10, version 1607

Customize, assess, and deploy Windows on your hardware

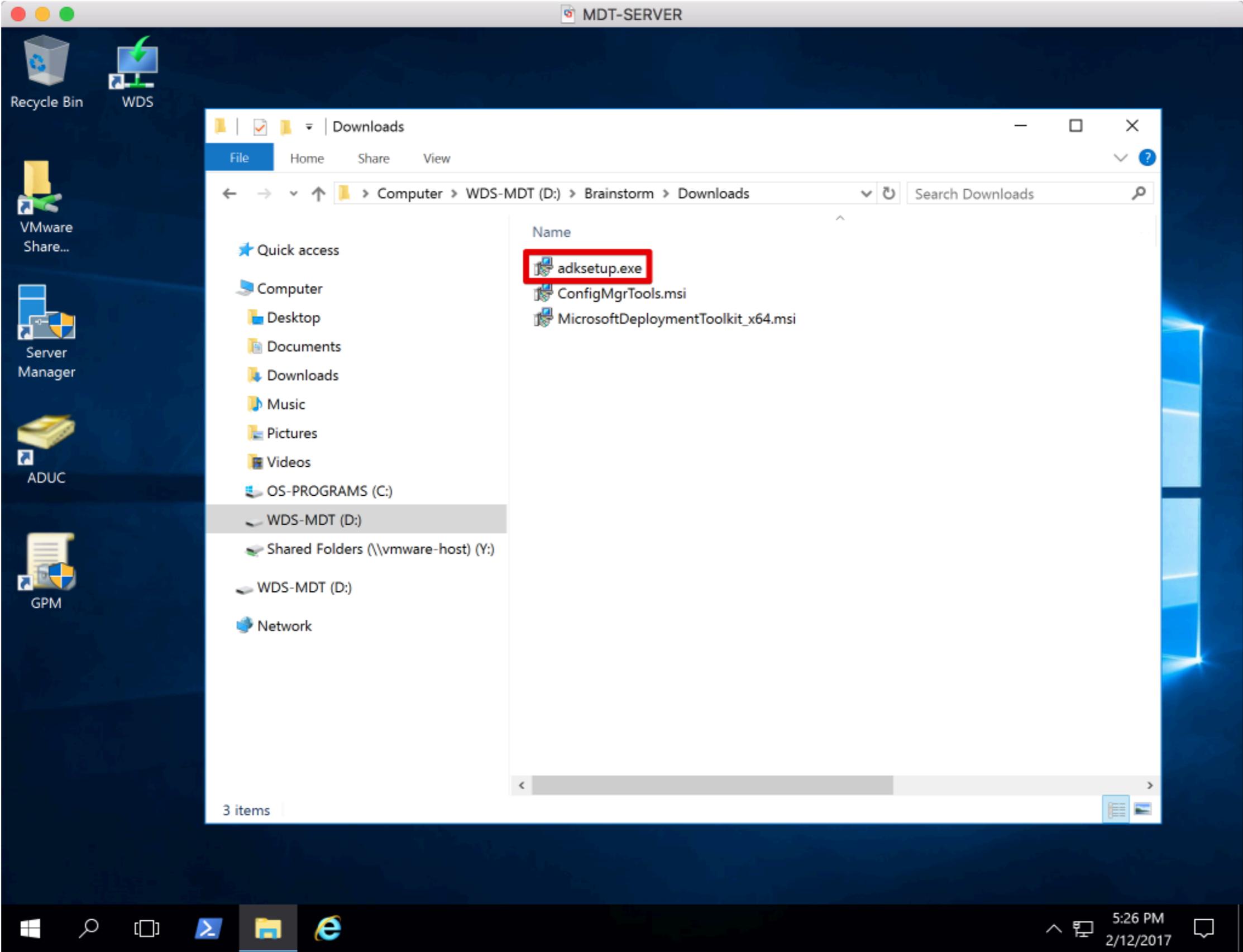
Download the Windows ADK for Windows 10 to get the new and improved deployment and provisioning tools used to automate a large-scale deployment. The Windows ADK includes:

Windows ADK for Windows 10, version 1511

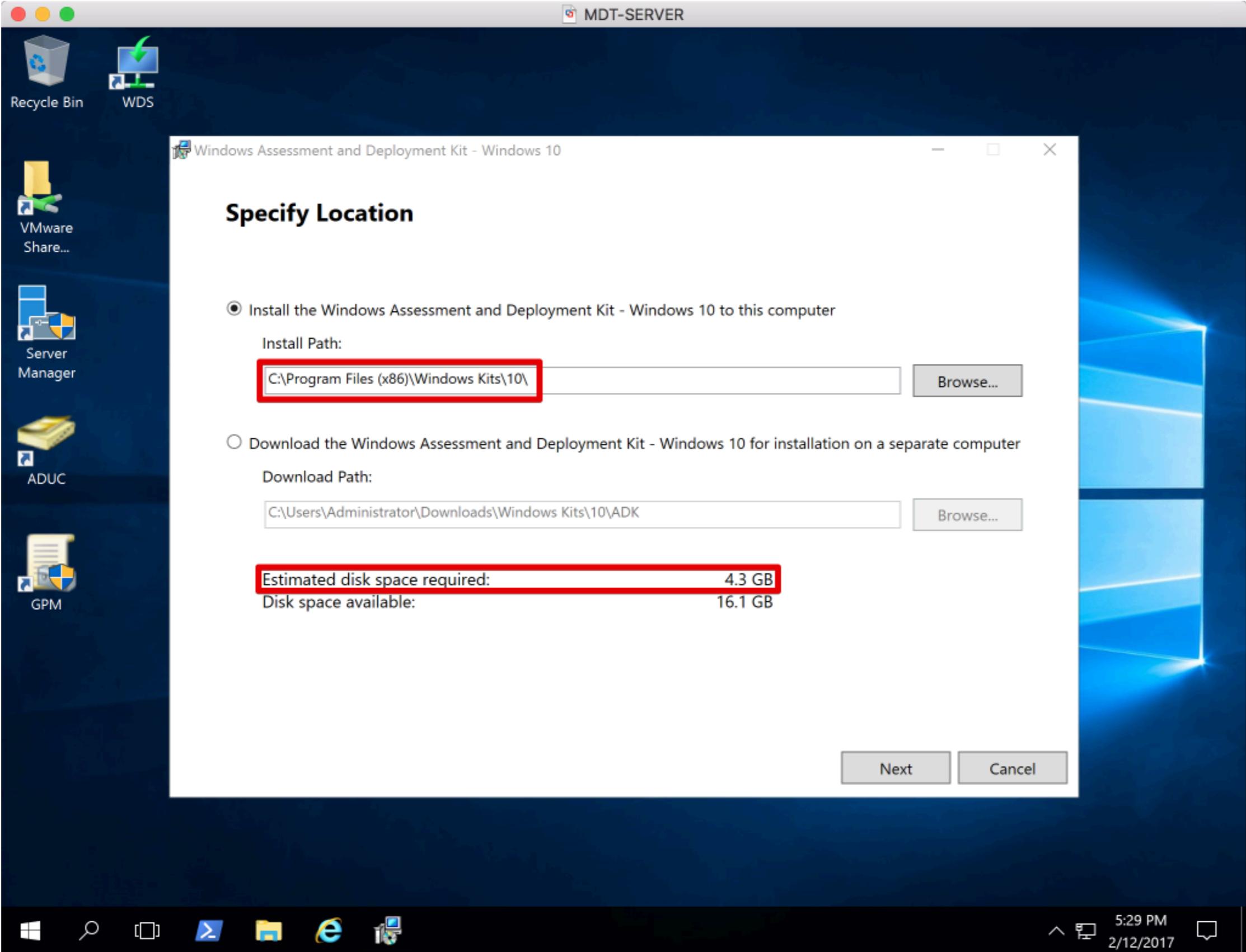
You must use Windows 10, version 1511 with this version of the Windows ADK and the Windows 10 IoT Core ADK Add-Ons for version 1511.

12:17 PM
2/12/2017

ADK | INSTALL



ADK | INSTALL



ADK | INSTALL

The screenshot shows the 'Windows Assessment and Deployment Kit - Windows 10' installation window. The title bar indicates the window is on the 'MDT-SERVER' machine. The desktop background is the standard Windows 10 blue wallpaper. On the left side of the desktop, there are icons for Recycle Bin, WDS, VMware Share..., Server Manager, ADUC, and GPM. The installation window is titled 'Select the features you want to install' and includes a list of features with checkboxes. The 'Deployment Tools' and 'User State Migration Tool (USMT)' checkboxes are highlighted with red boxes. To the right of the list, the 'Application Compatibility Tools' feature is expanded, showing its size (7.2 MB) and included components: Compatibility Administrator and Standard User Analyzer (SUA). At the bottom right of the window, the estimated disk space required (3.9 GB) and available (16.1 GB) are shown, along with 'Back', 'Install', and 'Cancel' buttons. The taskbar at the bottom shows the Start button, search icon, and several open applications, with the system tray displaying the time as 5:30 PM on 2/12/2017.

MDT-SERVER

Windows Assessment and Deployment Kit - Windows 10

Select the features you want to install

Click a feature name for more information.

- Application Compatibility Tools
- Deployment Tools
- Windows Preinstallation Environment (Windows PE)
- Imaging And Configuration Designer (ICD)
- Configuration Designer
- User State Migration Tool (USMT)
- Volume Activation Management Tool (VAMT)
- Windows Performance Toolkit
- Microsoft SQL Server 2012 Express
- Microsoft User Experience Virtualization (UE-V) Template
- Microsoft Application Virtualization (App-V) Sequencer
- Media eXperience Analyzer

Application Compatibility Tools

Size: 7.2 MB

Tools to help mitigate application compatibility issues.

Includes:

- Compatibility Administrator
- Standard User Analyzer (SUA)

Estimated disk space required: 3.9 GB
Disk space available: 16.1 GB

Back Install Cancel

5:30 PM
2/12/2017

DOWNLOAD & INSTALL **STEP #2**

MICROSOFT DEPLOYMENT TOOLKIT (MDT)

MDT | DOWNLOAD

MDT-SERVER

https://technet.microsoft.com/en-us/windows/dn475741.aspx

Microsoft Technologies Documentation Resources

Windows IT Center Explore Docs Downloads Scripts Support

Windows > Home > Microsoft Deployment Toolkit

Microsoft Deployment Toolkit

The Microsoft Deployment Toolkit (MDT) provides a unified collection of tools, processes, and guidance for automating desktop and server deployment. In addition to reducing deployment time and standardizing desktop and server images, MDT offers improved security and ongoing configuration management.

News and highlights

[Microsoft Deployment Toolkit \(MDT\), build 8443 now available](#)

Moving forward, MDT will be updated to align with the current branches of Windows 10 and System Center Configuration Manager. Find out which versions of Windows 10 and Configuration Manager are supported, and what to expect with regard to updates of the toolkit moving forward.

Download the toolkit

[Microsoft Deployment Toolkit \(8443\)](#)

MDT, build 8443 is the newest version of the Microsoft Deployment Toolkit and offers:

- Support for the deployment and upgrade of Windows 10, version 1607 (including Enterprise LTSB and Education editions) and Windows Server 2016
- Support for the Windows ADK for Windows 10, version 1607

Get started

Microsoft Deployment Toolkit 2013 resources

- [Deploy Windows 10 with MDT](#)
- [Deploy Windows 10 with Configuration Manager \(and MDT\)](#)
- [Upgrade to Windows 10 with MDT](#)
- [Upgrade to Windows 10 with Configuration Manager \(and MDT\)](#)

12:14 PM 2/12/2017

MDT | INSTALL

The screenshot shows a Windows desktop environment. The desktop background is the standard Windows 7 blue wallpaper. On the left side, there are several icons: Recycle Bin, WDS, VMware Share..., Deployment Workbench, Server Manager, ADUC, and GPM. The taskbar at the bottom shows the Start button, search icon, and several application icons including Internet Explorer. The system tray in the bottom right corner displays the time as 10:43 AM on 2/13/2017.

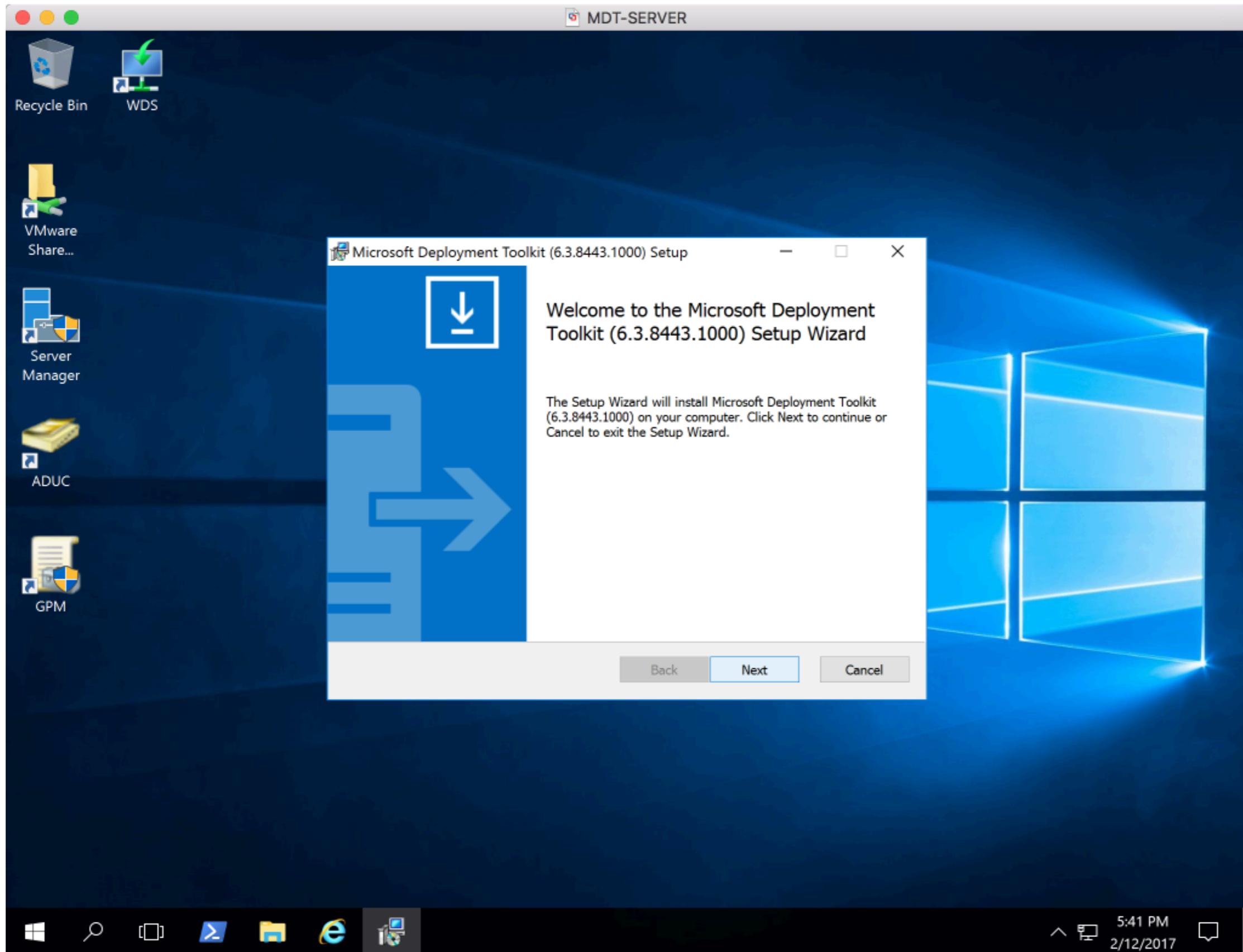
The main focus is a File Explorer window titled "MDT-SERVER" showing the "Downloads" folder. The address bar indicates the path: Computer > WDS-MDT (D:) > Brainstorm > Downloads. The file list contains three items:

Name
adksetup.exe
ConfigMgrTools.msi
MicrosoftDeploymentToolkit_x64.msi

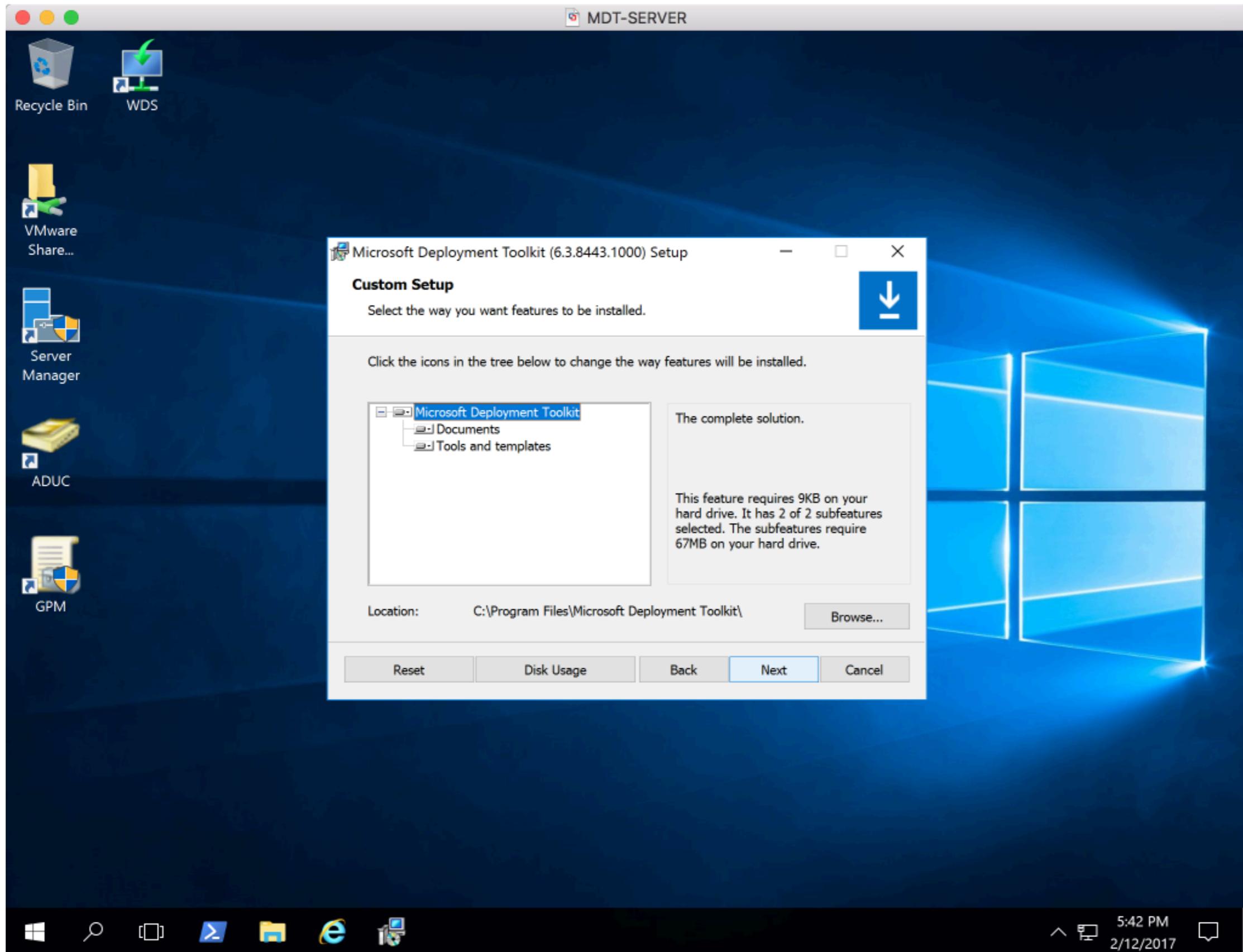
The file "MicrosoftDeploymentToolkit_x64.msi" is highlighted with a red rectangular box. A green text box is overlaid on the right side of the File Explorer window, containing the following text:

MDT comes in 32-bit and 64-bit versions.
Download the architecture that matches the operating system you'll be running it on.

MDT | INSTALL



MDT | INSTALL



INSTALL & CONFIGURE **STEP #3**

WINDOWS DEPLOYMENT SERVICES (WDS)

WDS | INSTALL ROLE

The screenshot displays the Windows Server Manager interface. The title bar indicates the window is titled 'MDT-SERVER'. The main header shows 'Server Manager > Dashboard' with navigation icons and a menu containing 'Manage', 'Tools', 'View', and 'Help'. The left-hand navigation pane lists 'Dashboard' (selected), 'Local Server', 'All Servers', 'AD DS', 'DNS', and 'File and Storage Services'. The main content area is titled 'WELCOME TO SERVER MANAGER' and features a 'QUICK START' section with a numbered list of five steps: 1. Configure this local server, 2. Add roles and features (highlighted with a red box), 3. Add other servers to manage, 4. Create a server group, and 5. Connect this server to cloud services. A 'Hide' button is located at the bottom right of this section. Below the quick start is the 'ROLES AND SERVER GROUPS' section, which shows 'Roles: 3 | Server groups: 1 | Servers total: 1'. Two role cards are visible: 'AD DS' and 'DNS', each with a count of 1. Each card lists 'Manageability', 'Events', 'Services', 'Performance', and 'BPA results' as associated features.

Server Manager > Dashboard

Manage Tools View Help

WELCOME TO SERVER MANAGER

1 Configure this local server

2 Add roles and features

3 Add other servers to manage

4 Create a server group

5 Connect this server to cloud services

Hide

ROLES AND SERVER GROUPS

Roles: 3 | Server groups: 1 | Servers total: 1

Role	Count
AD DS	1
DNS	1

AD DS 1

- Manageability
- Events
- Services
- Performance
- BPA results

DNS 1

- Manageability
- Events
- Services
- Performance
- BPA results

4:56 PM 2/12/2017

WDS | INSTALL ROLE

The screenshot shows the Windows Server Manager interface with the 'Add Roles and Features Wizard' open. The wizard is titled 'Select server roles' and is configured for the 'DESTINATION SERVER' 'MDT-SERVER.brainstorm.local'. The 'Server Roles' section is selected in the left-hand navigation pane. The main area displays a list of roles with checkboxes, and the 'Windows Deployment Services' role is checked and highlighted with a red box. The 'Description' pane on the right provides details for the selected role. At the bottom of the wizard, the 'Next >' button is highlighted in blue, indicating the next step in the installation process.

Server Manager Dashboard

WELCOME TO SERVER MANAGER

Dashboard

- Local Server
- All Servers
- AD DS
- DNS
- File and Storage Services

Before You Begin

Installation Type

Server Selection

Server Roles

Features

WDS

- Role Services

Confirmation

Results

Select one or more roles to install on the selected server.

Roles

- Active Directory Certificate Services
- Active Directory Domain Services (Installed)
- Active Directory Federation Services
- Active Directory Lightweight Directory Services
- Active Directory Rights Management Services
- Device Health Attestation
- DHCP Server
- DNS Server (Installed)
- Fax Server
- File and Storage Services (2 of 12 installed)
- Host Guardian Service
- Hyper-V
- MultiPoint Services
- Network Policy and Access Services
- Print and Document Services
- Remote Access
- Remote Desktop Services
- Volume Activation Services
- Web Server (IIS)
- Windows Deployment Services**

Description

Windows Deployment Services provides a simplified, secure means of rapidly and remotely deploying Windows operating systems to computers over the network.

< Previous Next > Install Cancel

4:57 PM 2/12/2017

WDS | INSTALL ROLE

The screenshot shows the Windows Server Manager interface on a server named 'MDT-SERVER'. The 'Add Roles and Features Wizard' is open, displaying the 'Select role services' step. The wizard is configured for the destination server 'MDT-SERVER.brainstorm.local'. The 'Role services' list includes 'Deployment Server' and 'Transport Server', both of which are checked. The 'Description' for the selected services states: 'Deployment Server provides the full functionality of Windows Deployment Services, which you can use to configure and remotely install Windows operating systems. With Windows Deployment Services, you can create and customize images and then use them to reimage computers. Deployment Server is dependent on the core parts of Transport Server.'

Server Manager Dashboard

WELCOME TO SERVER MANAGER

DESTINATION SERVER
MDT-SERVER.brainstorm.local

Select role services

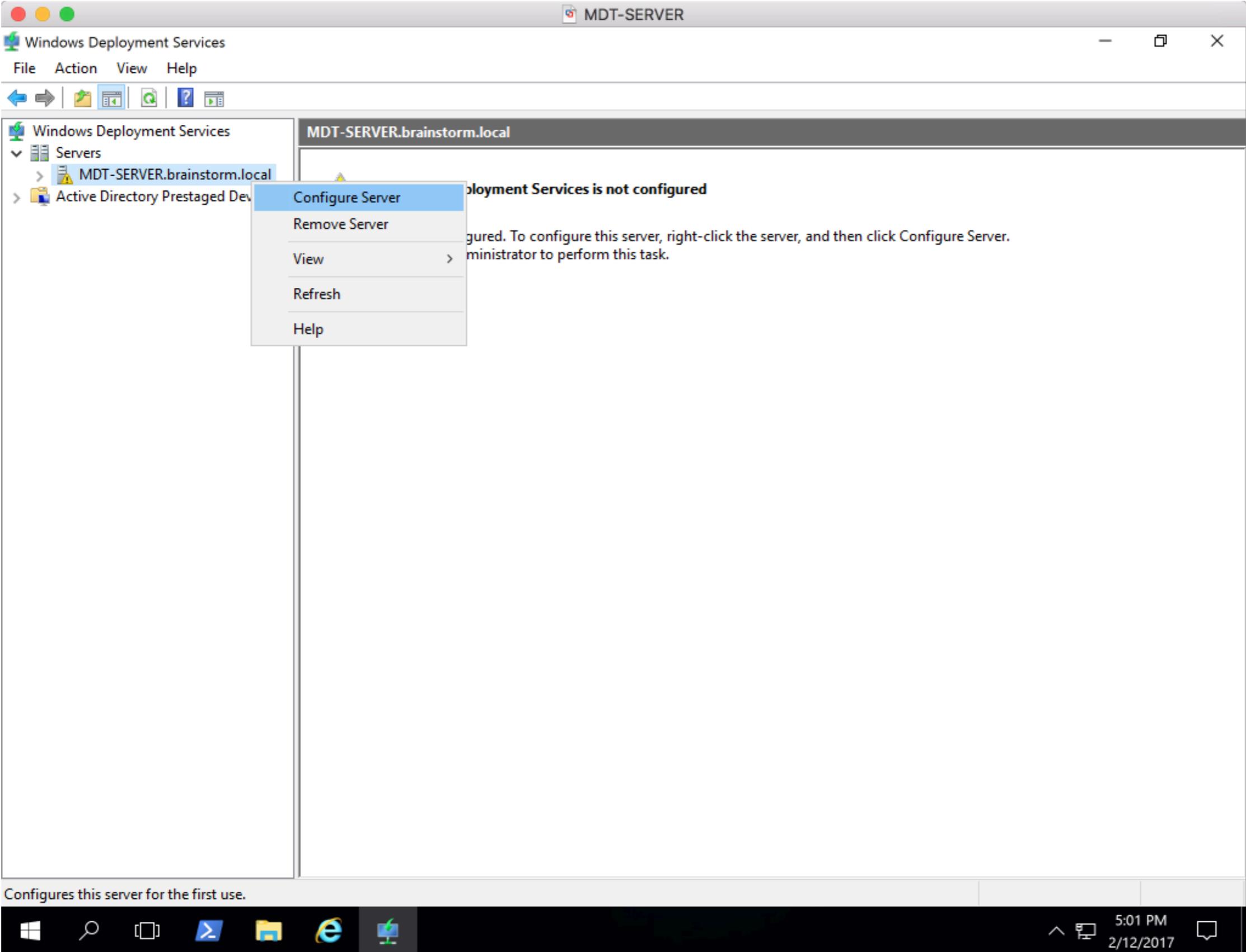
Select the role services to install for Windows Deployment Services

Role services	Description
<input checked="" type="checkbox"/> Deployment Server	Deployment Server provides the full functionality of Windows Deployment Services, which you can use to configure and remotely install Windows operating systems. With Windows Deployment Services, you can create and customize images and then use them to reimage computers. Deployment Server is dependent on the core parts of Transport Server.
<input checked="" type="checkbox"/> Transport Server	

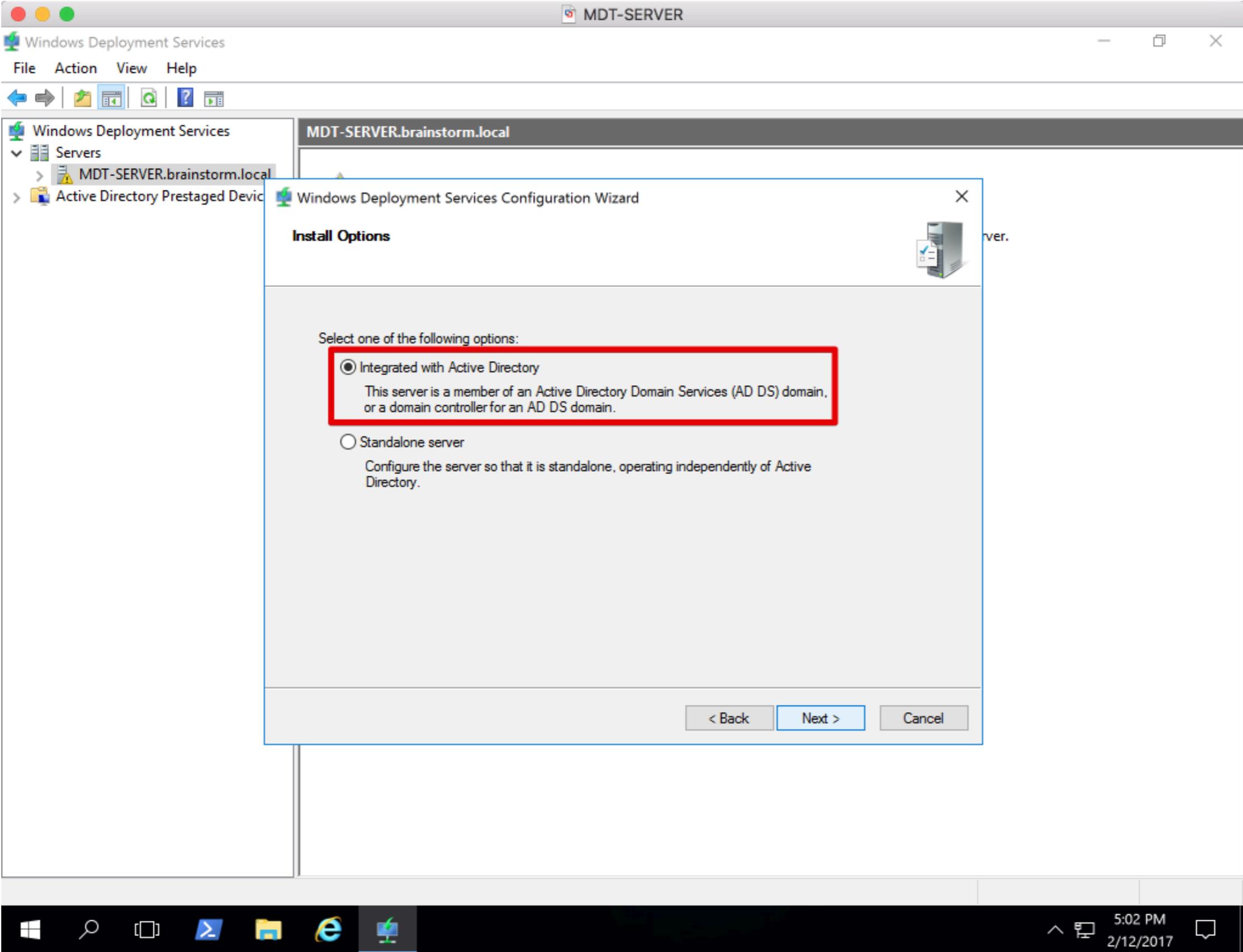
< Previous Next > Install Cancel

5:00 PM 2/12/2017

WDS | CONFIGURE



WDS | CONFIGURE



WDS | CONFIGURE

The screenshot shows the Windows Deployment Services Configuration Wizard in a window titled "MDT-SERVER". The wizard is at the "Remote Installation Folder Location" step. The main window behind the wizard shows the "Windows Deployment Services" console with a tree view containing "Servers" and "Active Directory Prestaged Devices".

Remote Installation Folder Location

The remote installation folder will contain boot images, install images, PXE boot files, and the Windows Deployment Services management tools. Choose a partition that is large enough to hold all of the images that you will have. This partition must be an NTFS partition and should not be the system partition.

Enter the path to the remote installation folder.

Path: Browse...

< Back Next > Cancel

Deployment Services. You can properties. You can also manage and then click Add Server.

Windows taskbar at the bottom shows the time as 5:20 PM on 2/12/2017.

WDS | CONFIGURE

The screenshot shows the Windows Deployment Services Configuration Wizard for the server MDT-SERVER.brainstorm.local. The wizard is titled "PXE Server Initial Settings" and provides instructions on how to configure the server to respond to client computers. The "Respond to all client computers (known and unknown)" option is selected and highlighted with a red box. Below this option, there is a checkbox for "Require administrator approval for unknown computers" which is currently unchecked. The wizard includes navigation buttons for "< Back", "Next >", and "Cancel".

MDT-SERVER

Windows Deployment Services

File Action View Help

Windows Deployment Services

Servers

MDT-SERVER.brainstorm.local

Active Directory Prestaged Devices

Windows Deployment Services Configuration Wizard

PXE Server Initial Settings

You can use these settings to define which client computers this server will respond to. Known clients are the clients that have been prestaged. When the physical computer performs a PXE boot, the operating system will be installed based on the settings that you have defined.

Select one of the following options:

- Do not respond to any client computers
- Respond only to known client computers
- Respond to all client computers (known and unknown)

Require administrator approval for unknown computers. When you select this option, you must approve the computers using the Pending Devices node in the snap-in. Approved computers will be added to the list of prestaged clients.

To configure this server, click Next.

< Back Next > Cancel

5:03 PM 2/12/2017

WDS | CONFIGURE

The screenshot shows a Windows Server environment with the Windows Deployment Services console open. A configuration wizard dialog box is displayed in the foreground, indicating that the configuration process is complete. The dialog box contains the following text:

Operation Complete

You have successfully configured Windows Deployment Services. To modify any of the server settings, right-click the server, and click Properties.

Now that you have configured the server, you will need to add images. These images include a boot image (which is the bootable environment that you initially boot the computer into), and the install images (which are the operating system images that you deploy).

To add images when this wizard closes, select the following check box. To add images at a later time, right-click the Install Images or Boot Images node in the snap-in.

Add images to the server now

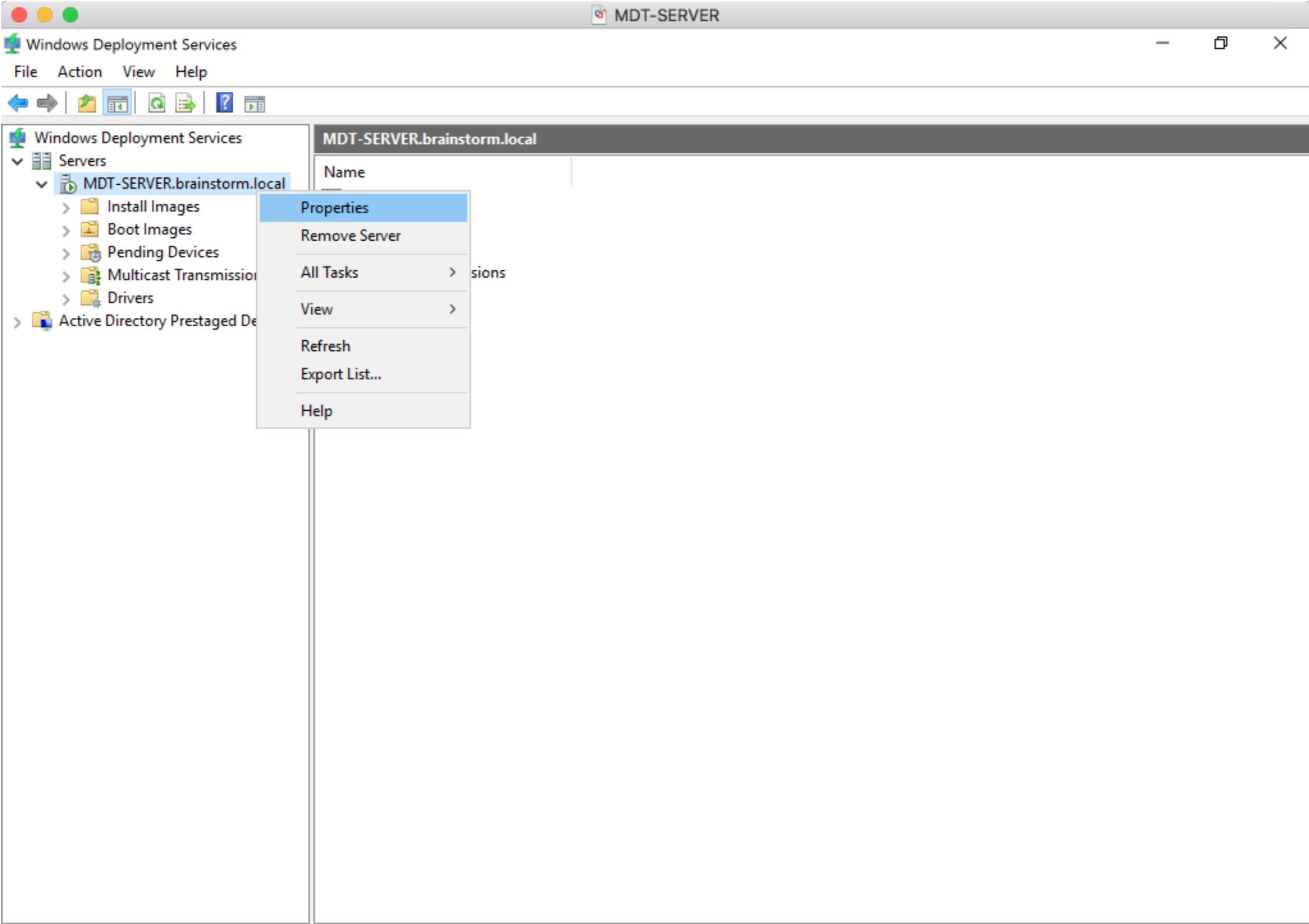
To close this wizard, click Finish.

At the bottom of the dialog box, there are three buttons: < Back, Finish, and Cancel. The Finish button is highlighted in blue.

The background console shows the following structure:

- Windows Deployment Services
 - Servers
 - MDT-SERVER.brainstorm.local
 - Active Directory Prestaged Devices

WDS | CONFIGURE



Displays the properties.

WDS | CONFIGURE

The screenshot shows the Windows Deployment Services console with the 'MDT-SERVER Properties' dialog box open. The 'Network' tab is selected, and the 'PXE Response' sub-tab is active. The 'PXE Boot Policy' section is highlighted with a red box, showing the following options:

PXE Boot Policy
After a network boot is initiated, define when a PXE boot will continue.

Known clients:

- Require the user to press the F12 key to continue the PXE boot
- Always continue the PXE boot
- Continue the PXE boot unless the user presses the ESC key
- Never continue the PXE boot

Unknown clients:

- Require the user to press the F12 key to continue the PXE boot
- Always continue the PXE boot
- Continue the PXE boot unless the user presses the ESC key
- Never continue the PXE boot

Default boot image (optional)

x86 architecture:	<input type="text"/>	Select...
ia64 architecture:	<input type="text"/>	Select...
x64 architecture:	<input type="text"/>	Select...
arm architecture:	<input type="text"/>	Select...
x86 (UEFI) architecture:	<input type="text"/>	Select...
x64 (UEFI) architecture:	<input type="text"/>	Select...

Buttons: OK, Cancel, Apply

WDS | CONFIGURE

The screenshot shows the Windows Deployment Services console with the 'MDT-SERVER Properties' dialog box open. The dialog box has tabs for Multicast, Advanced, Network, and TFTP. The 'DHCP' sub-tab is selected, showing two unchecked checkboxes: 'Do not listen on DHCP ports' and 'Configure DHCP options to indicate that this is also a PXE server'. The 'Do not listen on DHCP ports' checkbox is highlighted with a red rectangle.

Windows Deployment Services

File Action View Help

Windows Deployment Services

Servers

- MDT-SERVER.brainstorm.local
 - Install Images
 - Boot Images
 - Pending Devices
 - Multicast Transmissions
 - Drivers
- Active Directory Prestaged Devices

MDT-SERVER Properties

Multicast	Advanced	Network	TFTP
General	PXE Response	AD DS	Boot Client DHCP

If Dynamic Host Configuration Protocol (DHCP) is running on this server, check both of the following check boxes and use DHCP tools to add appropriate PXE options to all DHCP and DHCPv6 scopes.

If a non-Microsoft DHCP server is running on this server, then check the first box and manually configure DHCP option 60 and DHCPv6 Vendor Class for Proxy DHCP.

- Do not listen on DHCP ports
- Configure DHCP options to indicate that this is also a PXE server

OK Cancel Apply

5:23 PM 2/12/2017

WDS | CONFIGURE

The screenshot shows the Windows Deployment Services console with the 'MDT-SERVER Properties' dialog box open. The dialog box has several tabs: General, PXE Response, AD DS, Boot, Client, and DHCP. The 'AD DS' tab is selected, and the 'Advanced' sub-tab is active. Under the 'Domain Controller' section, the radio button for 'Allow Windows Deployment Services to dynamically discover valid domain servers (recommended)' is selected. Under the 'DHCP Authorization' section, the radio button for 'Authorize this Windows Deployment Services server in DHCP' is selected and highlighted with a red rectangle. The 'OK' button is also highlighted with a blue rectangle. The background shows the console tree with 'MDT-SERVER.brainstorm.local' selected.

Windows Deployment Services

File Action View Help

Windows Deployment Services

Servers

- MDT-SERVER.brainstorm.local
 - Install Images
 - Boot Images
 - Pending Devices
 - Multicast Transmissions
 - Drivers
- Active Directory Prestaged Devices

MDT-SERVER Properties

General PXE Response AD DS Boot Client DHCP

Multicast Advanced Network TFTP

Domain Controller

- Allow Windows Deployment Services to dynamically discover valid domain servers (recommended)
- Windows Deployment Services should use the following servers:
 - Domain controller: Browse...
 - Global catalog: Browse...

DHCP Authorization

- Do not authorize this Windows Deployment Services server in DHCP
- Authorize this Windows Deployment Services server in DHCP

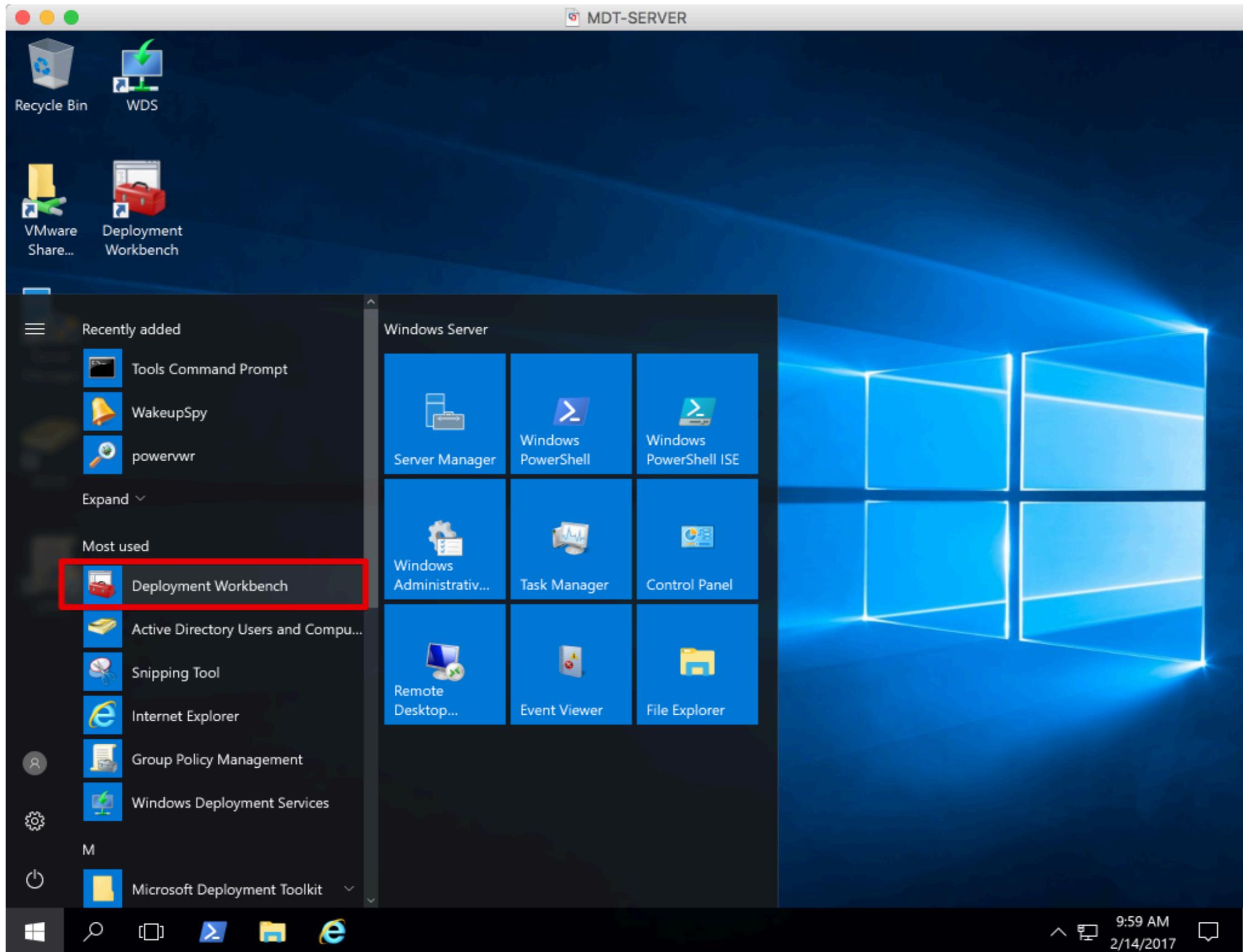
OK Cancel Apply

5:24 PM 2/12/2017

CREATE DEPLOYMENT SHARE **STEP #4**

MICROSOFT DEPLOYMENT TOOLKIT (MDT)

MDT | CREATE DEPLOYMENT SHARE



MDT | CREATE DEPLOYMENT SHARE

MDT-SERVER

DeploymentWorkbench - [Deployment Workbench]

File Action View Help

Deployment Workbench

- Information Center
 - Documentation
 - Deployment Shares

Microsoft Deployment Toolkit

Microsoft Deployment Toolkit Overview

The Microsoft Deployment Toolkit (MDT) provides a unified collection of tools, processes, and guidance for automating desktop and server deployments. In addition to reducing deployment time and standardizing desktop and server images, MDT offers improved security and ongoing configuration management.

MDT supports deployment of Windows 10 through Windows 7, as well as the associated server and embedded operating systems. Features such as Windows 10 in-place upgrade, flexible driver management, optimized user interface workflow, and Windows PowerShell scripting can simplify deployment and make your job easier. Deploy faster and easier with MDT.

What's New in MDT

- Support for the Windows Assessment and Deployment Kit (ADK) for Windows 10
- Support for deployment and upgrade of Windows 10
- Support for integration with System Center Configuration Manager with the Windows 10 ADK

Resources

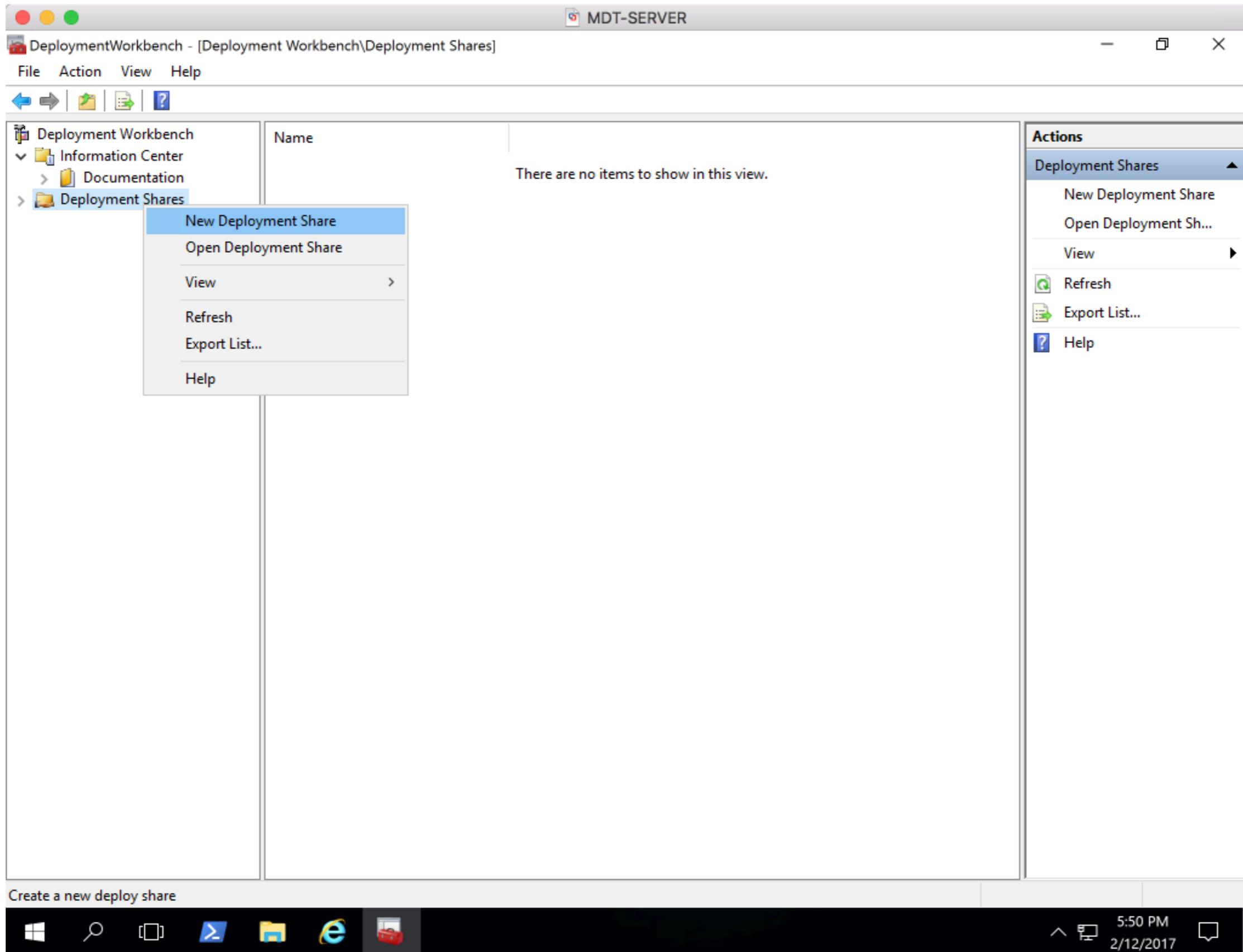
- [MDT Documentation](#)
- [MDT Team Blog](#)
- [MDT @ Windows TechNet](#)

<http://www.microsoft.com/deployment> © 2015 Microsoft Corporation. All Rights Reserved.

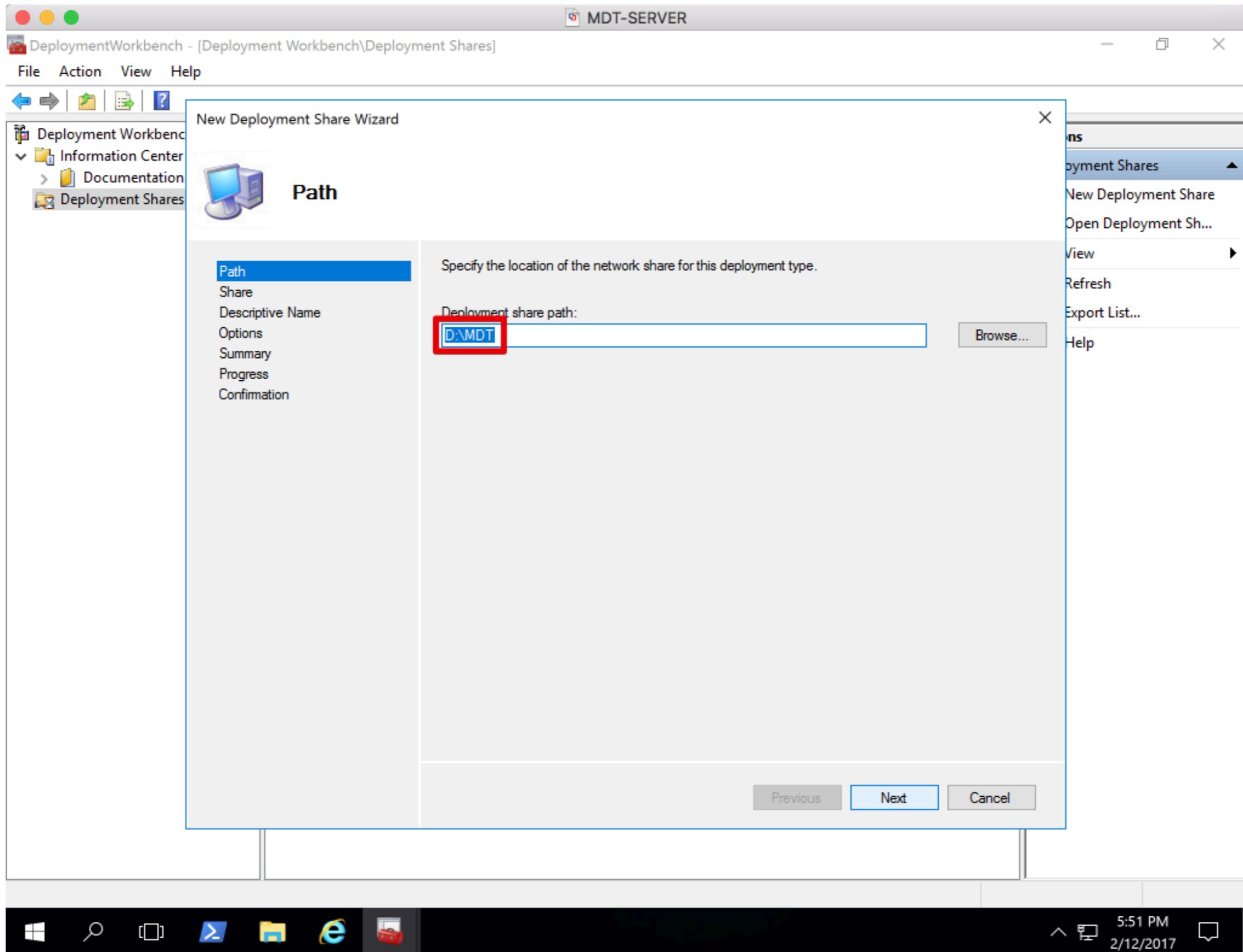
Done

5:49 PM
2/12/2017

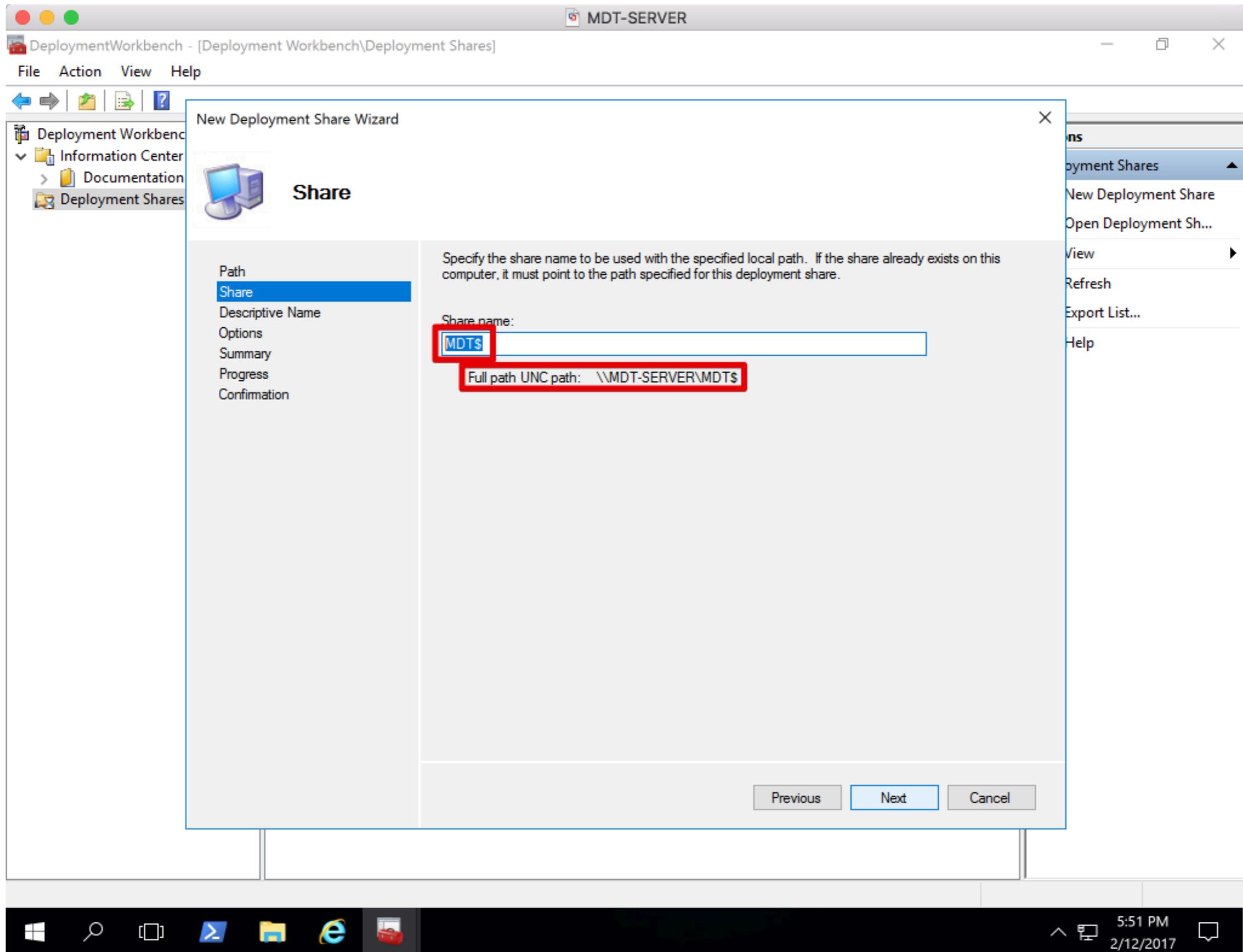
MDT | CREATE DEPLOYMENT SHARE



MDT | CREATE DEPLOYMENT SHARE



MDT | CREATE DEPLOYMENT SHARE



MDT | CREATE DEPLOYMENT SHARE

MDT-SERVER

DeploymentWorkbench - [Deployment Workbench\Deployment Shares]

File Action View Help

Deployment Workbench

- Information Center
- Documentation
- Deployment Shares

New Deployment Share Wizard

Options

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.

These settings can be changed later by modifying the rules defined for the deployment share.

Previous Next Cancel

5:53 PM
2/12/2017

MDT | CREATE DEPLOYMENT SHARE

The screenshot shows the 'New Deployment Share Wizard' in the MDT-SERVER Deployment Workbench. The wizard is currently on the 'Summary' step, which displays the following configuration details:

Property	Value
Path:	D:\MDT
Upgrade:	False
ShareName:	MDT\$
Description:	MDT Deployment Share
Ask about Backup:	False
Ask for Product Key:	False
Ask for Admin Password:	*****
Ask about Image Capture:	False
Ask about BitLocker:	False

The wizard also includes a 'Summary' sidebar on the left with options: Path, Share, Descriptive Name, Options, Summary (selected), Progress, and Confirmation. At the bottom, there are 'Previous', 'Next', and 'Cancel' buttons. The system tray at the bottom right shows the time as 5:54 PM on 2/12/2017.

MDT | CREATE DEPLOYMENT SHARE

The screenshot displays the 'New Deployment Share Wizard' in the 'MDT-SERVER' environment. The wizard is at the 'Confirmation' step, indicating that the process has completed successfully. The left sidebar shows the 'Deployment Shares' folder expanded, with the 'Confirmation' step selected. The main area contains a message box with the following text:

```
Creating share 'MDT$' with path 'D:\MDT'.  
Share created successfully.  
Performing the operation "New drive" on target "Name: DS001 Provider: MicrosoftDeploymentToolkit\MI".  
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 'D:\MDT' opened successfully.  
Adding MDT drive DS001 to the persisted drive list.  
Successfully added MDT drive DS001 to the persisted drive list.
```

Below the message box are buttons for 'Save Output...' and 'View Script'. At the bottom of the wizard are 'Previous', 'Finish', and 'Cancel' buttons. The Windows taskbar at the bottom shows the time as 5:54 PM on 2/12/2017.

MDT | CONFIGURE DRIVERS

The screenshot displays the Deployment Workbench application window titled "MDT-SERVER". The address bar shows the path "DeploymentWorkbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (D:\MDT)]". The interface is divided into three main sections:

- Left Pane (Navigation):** Shows a tree view of the Deployment Workbench structure. The "MDT Deployment Share (D:\MDT)" folder is selected and expanded, revealing subfolders: Applications, Operating Systems, Out-of-Box Drivers, Packages, Task Sequences, Advanced Configuration, and Monitoring.
- Center Pane (Content):** A table with a "Name" header, listing the contents of the selected folder: Applications, Operating Systems, Out-of-Box Drivers, Packages, Task Sequences, Advanced Configuration, and Monitoring.
- Right Pane (Actions):** A list of actions available for the selected folder, including "Update Deployment Share", "Close Deployment Share", "View", "Refresh", "Export List...", "Properties", and "Help".

The Windows taskbar at the bottom shows the system tray with the time "5:55 PM" and date "2/12/2017".

IMPORTING DRIVERS **STEP #5**

MICROSOFT DEPLOYMENT TOOLKIT (MDT)

DRIVER DOWNLOAD OPTIONS

- ▶ DriverPacks from manufacturer's website (Dell, Lenovo, HP)
 - ▶ CAB Archive
 - ▶ EXE Archive
 - ▶ Not always up-to-date
- ▶ Individual drivers for specific make/models
- ▶ [DriverPacks.net](#) or another 3rd party website
(for experimental or testing lab use only)

MDT-SERVER

https://ftp.hp.com/pub/caps-softpaq/cmit/HP_WinPE_DriverPack.html

HP Client Windows PE Drive...

hp Client Management Solutions - HP Client Windows PE Driver Packs

Overview Manageability Tools Microsoft System Center

HP Client Windows PE Driver Packs

- Each WinPE driver pack include both 32-bit and/or 64-bit drivers. Select a link below to download an HP WinPE driver pack or its release notes

HP WinPE Driver Pack	Version	Softpaq #	Date	Softpaq Exe	Release Notes
WinPE 3	1.05	sp71913	09/29/2015	sp71913	Release Notes
WinPE 4	1.01	sp64529	12/04/2013	sp64529	Release Notes
WinPE 5	1.03	sp71912	09/14/2015	sp71912	Release Notes
WinPE 10	1.30	sp78464	01/12/2017	sp78464	Release Notes

DESCRIPTION:

This package contains the drivers necessary for appropriate Microsoft Windows operating system deployment for supported HP notebook and desktop models.

This package provides the drivers for the integrated and select add-in devices in an INF format.

5:59 PM 2/12/2017

MDT | IMPORTING DRIVERS

MDT-SERVER

http://ftp.hp.com/pub/caps-softpaq/cm/HP_Driverpack_Matrix_x64.html

hp Client Management Solutions - HP Driver Packs

Overview Drivers & BIOS Microsoft System Center

HP Driver Packs (64-bit)

HP recommends using Softpaq Download Manager (SDM) to build a driver pack with the most current drivers available. Download SDM [here](#).

Select a link below to download a driver pack for Microsoft OSes (64-bit). Hover over download link for release date info.

Notebooks & Tablets	Windows 10 64-bit	Windows 8.1 64-bit	Windows 8 64-bit	Windows 7
HP Elite x2 1012 G1 Tablet HP Elite x2 1012 G1 Tablet with Travel Keyboard	sp77863.exe (Updated: 2016-10-07)	-	-	
HP EliteBook 1030 G1 Notebook PC	sp77666.exe (Updated: 2016-10-07)	-	-	sp78320.e (Updated:)
HP EliteBook 1040 G3 Notebook PC	sp77205.exe (Updated: 2016-08-18)	-	-	sp78117.e (Updated:)
HP EliteBook 820 G3 Notebook PC HP EliteBook 840 G3 Notebook PC HP EliteBook 850 G3 Notebook PC HP ZBook 15u G3 Mobile Workstation	sp77184.exe (Updated: 2016-08-18)	sp77187.exe (Updated: 2016-10-25)	-	sp77185.e (Updated:)

12:53 PM
2/13/2017

MDT | IMPORTING DRIVERS

The screenshot displays the MDT-SERVER Deployment Workbench interface. The window title is "MDT-SERVER" and the address bar shows the path: "DeploymentWorkbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (D:\MDT)\Out-of-Box Drivers]".

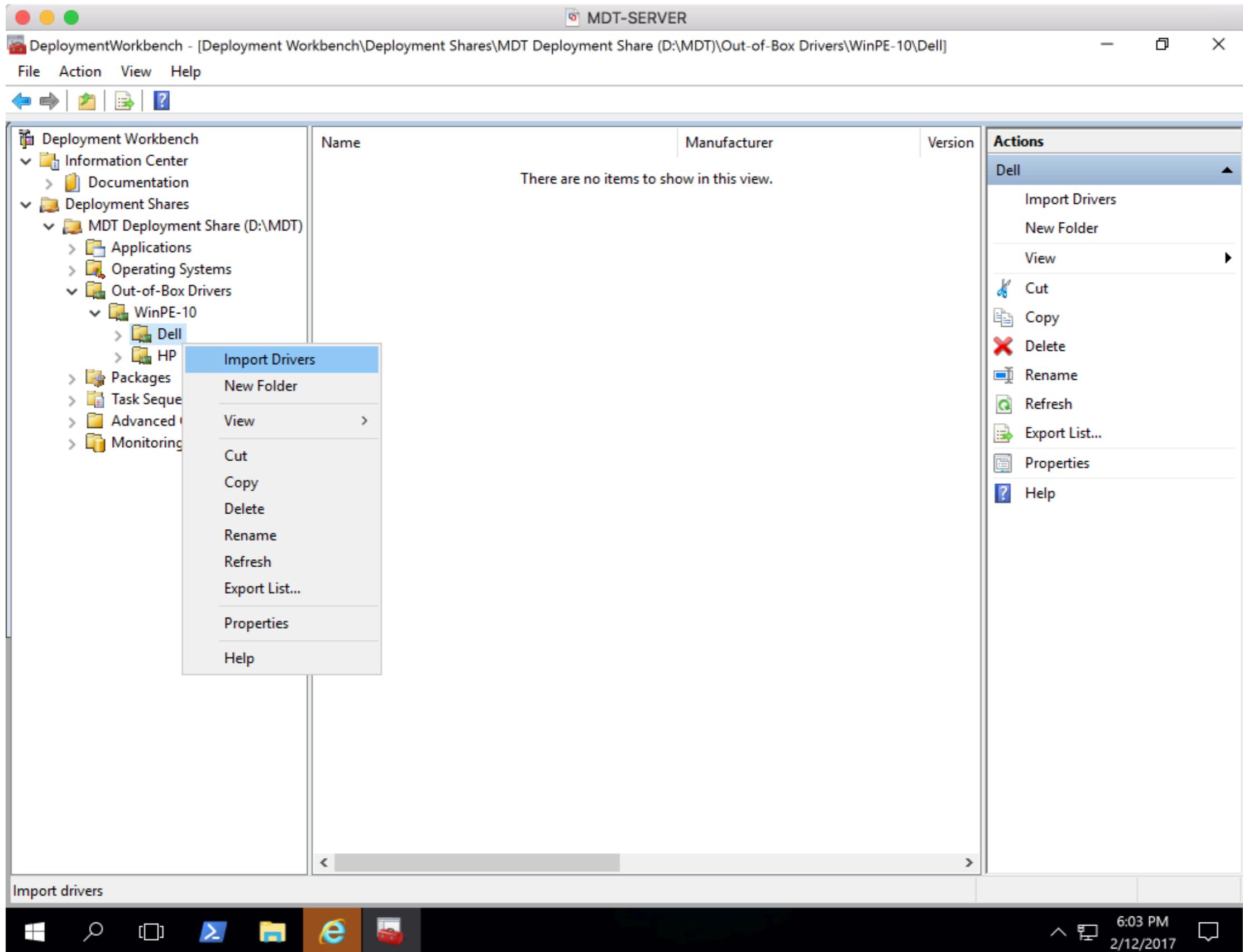
The interface is divided into several sections:

- Navigation Pane (Left):** Shows a tree view of the deployment share structure. The "Out-of-Box Drivers" folder is selected, and its subfolders "Dell" and "HP" are visible under the "WinPE-10" folder.
- Main Content Area (Center):** Displays a table with columns "Name", "Manufacturer", and "Version". A single entry "WinPE-10" is listed under the "Name" column.
- Actions Pane (Right):** Shows a list of actions available for the selected folder, including "Import Drivers", "New Folder", "View", "Refresh", "Export List...", and "Help".
- Context Menu (Overlaid):** A context menu is open over the "WinPE-10" folder, showing options: "Import Drivers", "New Folder" (highlighted), "View", "Refresh", "Export List...", and "Help".

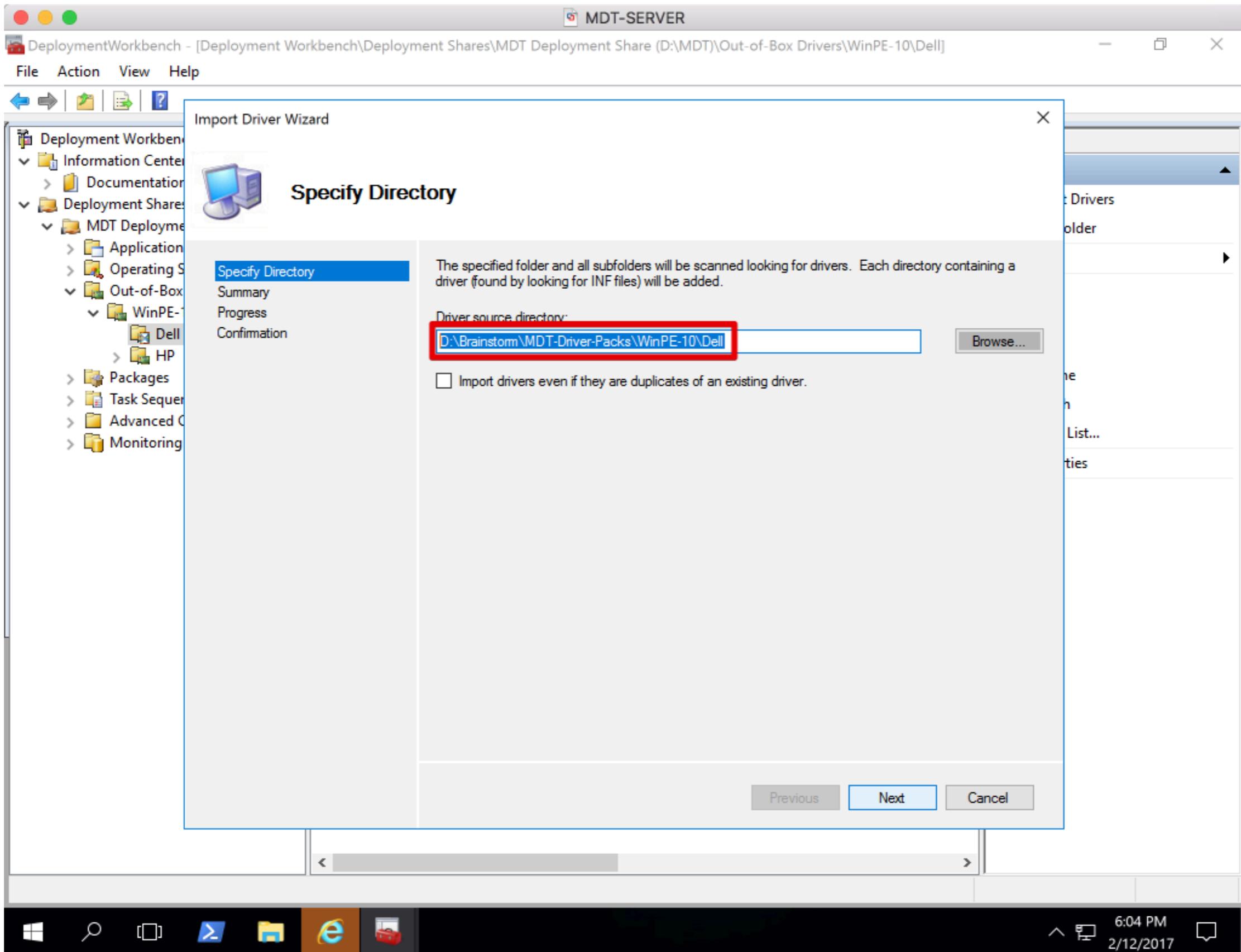
At the bottom of the window, a status bar displays the message: "Create a new folder in the selected folder".

The Windows taskbar at the bottom shows the system tray with the time "12:32 PM" and date "2/13/2017".

MDT | IMPORTING DRIVERS



MDT | IMPORTING DRIVERS



MDT | IMPORTING DRIVERS

MDT-SERVER

DeploymentWorkbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (D:\MDT)\Out-of-Box Drivers\WinPE-10\Dell]

File Action View Help

Import Driver Wizard

Confirmation

Specify Directory
Summary
Progress
Confirmation

The process completed with 18 warnings.

```
Scanning directories for the count of INFs to import.  
Expanding CAB file D:\Brainstorm\MDT-Driver-Packs\WinPE-10\Dell\WINPE10.0-DRIVERS-A04-9:  
Performing the operation "import" on target "Out-of-box drivers".  
Creating new item named Realtek Net rtlx64w10.INF 10.12.1007.2016 at DS001:\Out-of-Box Drivers  
Creating new item named SMSC Net net7500-x64-n630f.inf 2.3.0.1 at DS001:\Out-of-Box Drivers\Wi  
Creating new item named Intel(R) Corporation System tbt81x.inf 15.3.39.1 at DS001:\Out-of-Box Drive  
Creating new item named Intel(R) Corporation Net tp2p81x.inf 15.3.39.2 at DS001:\Out-of-Box Drive  
Creating new item named Realtek Net rtl640x64.inf 10.011.0923.2016 at DS001:\Out-of-Box Drivers\  
Warning: Driver ASMedia Technology Inc USB asmathub3.inf 1.16.41.3 does not appear to support pl  
Warning: Driver ASMedia Technology Inc USB asmathub3.inf 1.16.41.3 does not appear to support pl  
Creating new item named ASMedia Technology Inc USB asmathub3.inf 1.16.41.3 at DS001:\Out-of-Bo  
Warning: Driver ASMedia Technology Inc USB asmbdci.inf 1.16.41.3 does not appear to support pla  
Warning: Driver ASMedia Technology Inc USB asmbdci.inf 1.16.41.3 does not appear to support pla  
Creating new item named ASMedia Technology Inc USB asmbdci.inf 1.16.41.3 at DS001:\Out-of-Bo  
Creating new item named Intel Net E1C65x64.inf 12.15.31.4 at DS001:\Out-of-Box Drivers\WinPE-10  
Creating new item named Intel Net E1D65x64.inf 12.15.23.1 at DS001:\Out-of-Box Drivers\WinPE-10  
Creating new item named Intel Net E1R65x64.inf 12.12.226.0 at DS001:\Out-of-Box Drivers\WinPE-10  
Creating new item named Intel Net E1Q63x64.inf 12.7.27.0 at DS001:\Out-of-Box Drivers\WinPE-10  
Creating new item named ASIX Net NETAX88772.inf 3.16.8.0 at DS001:\Out-of-Box Drivers\WinPE-10  
Warning: Driver ASMedia Technology Inc USB asmathub3.inf 1.16.33.1 does not appear to support pl
```

Save Output... View Script

Previous Finish Cancel

6:05 PM 2/12/2017

MDT | IMPORTING DRIVERS

The screenshot shows the Deployment Workbench interface. The left pane displays the folder structure: Deployment Workbench > Information Center > Documentation; Deployment Shares > MDT Deployment Share (D:\MDT) > Applications; Operating Systems; Out-of-Box Drivers > WinPE-10 > Dell (selected); HP; Packages; Task Sequences; Advanced Configuration; Monitoring.

The main pane shows a list of drivers with columns: Name, Manufacturer, and Version. The list includes drivers from ASIX, ASMedia Technology Inc, and Intel Corporation.

The right pane shows the 'Actions' menu with the following options: Dell (selected), Import Drivers, New Folder, View, Cut, Copy, Delete, Rename, Refresh, Export List..., Properties, and Help.

Name	Manufacturer	Version
ASIX Net NETAX88772.inf 3.16.8.0	ASIX	3.16.8.0
ASMedia Technology Inc USB asmthub3.inf 1.16.33.1	ASMedia Technology Inc	1.16.33.1
ASMedia Technology Inc USB asmthub3.inf 1.16.33.1	ASMedia Technology Inc	1.16.33.1
ASMedia Technology Inc USB asmthub3.inf 1.16.41.3	ASMedia Technology Inc	1.16.41.3
ASMedia Technology Inc USB asmthub3.inf 1.16.41.3	ASMedia Technology Inc	1.16.41.3
ASMedia Technology Inc USB asmtxhci.inf 1.16.33.1	ASMedia Technology Inc	1.16.33.1
ASMedia Technology Inc USB asmtxhci.inf 1.16.33.1	ASMedia Technology Inc	1.16.33.1
ASMedia Technology Inc USB asmtxhci.inf 1.16.41.3	ASMedia Technology Inc	1.16.41.3
ASMedia Technology Inc USB asmtxhci.inf 1.16.41.3	ASMedia Technology Inc	1.16.41.3
Intel Corporation HDC iaAHCIC.inf 12.8.0.1016	Intel Corporation	12.8.0.1016
Intel Corporation HDC iaAHCIC.inf 12.8.2.1000	Intel Corporation	12.8.2.1000
Intel Corporation HDC iaAHCIC.inf 12.8.2.1000 (1)	Intel Corporation	12.8.2.1000 (1)
Intel Corporation HDC iaAHCIC.inf 12.9.0.1001	Intel Corporation	12.9.0.1001
Intel Corporation HDC iaAHCIC.inf 13.1.0.1058	Intel Corporation	13.1.0.1058
Intel Corporation HDC iaAHCIC.inf 14.5.2.1088	Intel Corporation	14.5.2.1088
Intel Corporation HDC iaAHCIC.inf 14.5.2.1088 (1)	Intel Corporation	14.5.2.1088 (1)
Intel Corporation HDC iaAHCIC.inf 15.2.2.1030	Intel Corporation	15.2.2.1030
Intel Corporation HDC iaAHCIC.inf 15.2.2.1030 (1)	Intel Corporation	15.2.2.1030 (1)
Intel Corporation SCSIAdapter iaAHCI.inf 4.3.0.1198	Intel Corporation	4.3.0.1198
Intel Corporation SCSIAdapter iaAHCI.inf 4.3.0.1198	Intel Corporation	4.3.0.1198
Intel Corporation SCSIAdapter iaAHCIB.inf 4.3.0.1198	Intel Corporation	4.3.0.1198
Intel Corporation SCSIAdapter iaAHCIB.inf 4.3.0.1198	Intel Corporation	4.3.0.1198
Intel Corporation SCSIAdapter iaStorA.inf 4.3.0.1198	Intel Corporation	4.3.0.1198
Intel Corporation SCSIAdapter iaStorA.inf 4.3.0.1198	Intel Corporation	4.3.0.1198
Intel Corporation SCSIAdapter iaStorAC.inf 12.8.0.1001	Intel Corporation	12.8.0.1001
Intel Corporation SCSIAdapter iaStorAC.inf 12.8.2.1001	Intel Corporation	12.8.2.1001
Intel Corporation SCSIAdapter iaStorAC.inf 12.8.2.1001	Intel Corporation	12.8.2.1001
Intel Corporation SCSIAdapter iaStorAC.inf 12.9.0.1001	Intel Corporation	12.9.0.1001
Intel Corporation SCSIAdapter iaStorAC.inf 13.1.0.1001	Intel Corporation	13.1.0.1001
Intel Corporation SCSIAdapter iaStorAC.inf 14.5.2.1001	Intel Corporation	14.5.2.1001

SELECTION PROFILES **STEP #6**

MICROSOFT DEPLOYMENT TOOLKIT (MDT)

MDT | SELECTION PROFILES

The screenshot shows the Deployment Workbench application window titled "MDT-SERVER". The address bar indicates the current location: "Deployment Workbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (D:\MDT)\Advanced Configuration\Selection Profiles]". The menu bar includes "File", "Action", "View", and "Help".

The left-hand navigation pane shows a tree view of the deployment share structure. The "Selection Profiles" folder under "Advanced Configuration" is selected, and a context menu is open over it with the following options: "New Selection Profile", "View", "Refresh", "Export List...", and "Help".

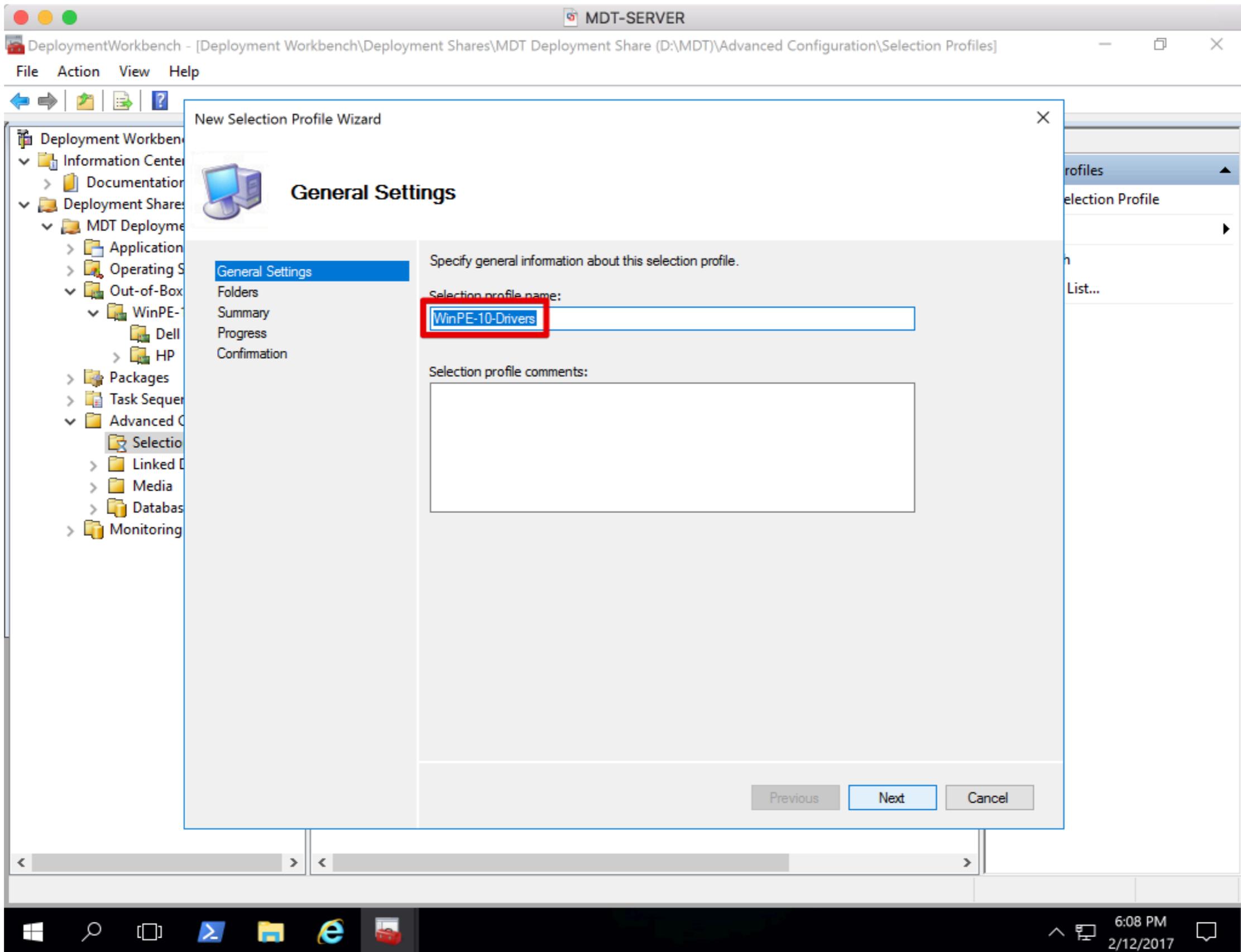
The main pane displays a table of selection profiles:

Name	Comments
All Drivers	Include all driver folders.
All Drivers and Packages	Include all driver folders and all packages folders.
All Packages	Include all packages folders.
Everything	All folders should be included.
Nothing	Exclude all folders.
Sample	
WinPE-10-Drivers	

The right-hand pane shows the "Actions" menu with the following options: "Selection Profiles", "New Selection Profile", "View", "Refresh", "Export List...", and "Help".

At the bottom of the window, a status bar displays the text "Create a new selection profile". The Windows taskbar at the very bottom shows the system tray with the time "10:02 AM" and date "2/14/2017".

MDT | SELECTION PROFILES



MDT | SELECTION PROFILES

The screenshot shows the 'New Selection Profile Wizard' dialog box in the MDT-Server Deployment Workbench. The wizard is currently in the 'Folders' step, which is highlighted in the left-hand navigation pane. The main area of the wizard displays a tree view of folders to be included in the selection profile. The tree view shows the following structure:

- DS001:\
 - Applications
 - Operating Systems
 - Out-of-Box Drivers
 - WinPE-10 (checked)
 - Dell (checked)
 - HP (checked)
 - Packages
 - Task Sequences

The 'Next' button is highlighted, indicating that the user is ready to proceed to the next step in the wizard. The 'Previous' and 'Cancel' buttons are also visible. The background shows the Deployment Workbench interface with a tree view on the left and a list of selection profiles on the right.

CONFIGURE DEPLOYMENT SHARE **STEP #7**

MICROSOFT DEPLOYMENT TOOLKIT (MDT)

MDT | CONFIGURE DEPLOYMENT SHARE

The screenshot displays the Deployment Workbench application window titled "MDT-SERVER". The main window shows the "Deployment Workbench" tree view on the left, with "MDT Deployment Share (D:\MDT)" selected. A context menu is open over this selection, listing actions such as "Update Deployment Share", "Close Deployment Share", "View", "Refresh", "Export List...", "Properties", and "Help". The "Properties" option is highlighted. On the right side of the window, the "Actions" pane is visible, showing a list of actions for the selected folder, including "Update Deployment Share", "Close Deployment Share", "View", "Refresh", "Export List...", "Properties", and "Help". The status bar at the bottom of the window contains the text: "Opens the properties dialog box for the current selection."



6:10 PM
2/12/2017



MDT | CONFIGURE DEPLOYMENT SHARE

The screenshot displays the 'MDT Deployment Share (D:\MDT) Properties' dialog box in the MDT-SERVER environment. The dialog is configured with the following details:

- Description:** MDT Deployment Share
- Comments:** (Empty text area)
- Network (UNC) path:** \\MDT-SERVER\MDT\$
- Local path:** D:\MDT
- Platforms Supported:**
 - x86
 - x64
- Enable multicast for this deployment share (requires Windows Server 2008 R2 Windows Deployment Services)

The dialog box includes 'OK', 'Cancel', 'Apply', and 'Help' buttons at the bottom. The background shows the Deployment Workbench interface with a tree view on the left and a task pane on the right. The task pane shows the 'MDT Deployment Share (D:\MDT)' selected, with options like 'Create Deployment Share' and 'Refresh' visible.

MDT | CONFIGURE DEPLOYMENT SHARE CUSTOMSETTINGS.INI

MDT-SERVER

DeploymentWorkbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (D:\MDT)]

File Action View Help

MDT Deployment Share (D:\MDT) Properties

General Rules Windows PE Monitoring

```
[Settings]
Priority=Default
Properties=MyCustomProperty

[Default]
OSInstall=Y
SkipCapture=YES
SkipAdminPassword=YES
SkipProductKey=YES
SkipComputerBackup=YES
SkipBitLocker=YES
```

Edit Bootstrap.ini

OK Cancel Apply Help

6:11 PM 2/12/2017

MDT | CONFIGURE DEPLOYMENT SHARE **BOOTSTRAP.INI**

The screenshot displays the MDT-SERVER Deployment Workbench interface. The main window shows the 'MDT Deployment Share (D:\MDT) Properties' dialog box, with the 'General' tab selected. The 'Deployment Share' field is set to '\\MDT-SERVER\MDT\$'. A 'Bootstrap.ini - Notepad' window is open in the foreground, showing the following configuration:

```
[Settings]
Priority=Default

[Default]
DeployRoot=\\MDT-SERVER\MDT$
```

The background interface shows the 'Deployment Workbench' tree view with the following structure:

- Deployment Workbench
 - Information Center
 - Documentation
 - Deployment Shares
 - MDT Deployment Share
 - Applications
 - Operating Systems
 - Out-of-band
 - Windows PE
 - Bootstrapping
 - Package Management
 - Task Sequences
 - Advanced
 - Selection
 - Links
 - Media
 - Data
 - Monitoring

The Windows taskbar at the bottom shows the time as 6:13 PM on 2/12/2017.

MDT | CONFIGURE DEPLOYMENT SHARE BOOT IMAGES

The screenshot displays the 'MDT-SERVER' Deployment Workbench interface. The main window shows the 'MDT Deployment Share (D:\MDT) Properties' dialog box, which is used to configure boot images for the deployment share. The dialog box has several tabs: 'General', 'Rules', 'Windows PE', and 'Monitoring'. The 'General' tab is selected, and the 'Platform' is set to 'x86'. The 'Lite Touch Boot Image Settings' section is active, showing the following options:

- Generate a Lite Touch Windows PE WIM file
Image description: Lite Touch Windows PE (x86)
- Generate a Lite Touch bootable ISO image
ISO file name: LiteTouchPE_x86.iso

The 'Windows PE Customizations' section is also visible, with the following settings:

- Custom background bitmap file: %INSTALLDIR%\Samples\Background.bmp
- Extra directory to add: (empty)
- Scratch space size: 32

The 'Generic Boot Image Settings' section is also visible, with the following options:

- Generate a generic Windows PE WIM file
Image description: Generic Windows PE (x86)
- Generate a generic bootable ISO image
ISO file name: Generic_x86.iso

The dialog box has 'OK', 'Cancel', 'Apply', and 'Help' buttons at the bottom. The background shows the Deployment Workbench interface with a tree view on the left and a task pane on the right. The task pane shows the 'MDT Deployment Share (D:\MDT)' folder selected, with options like 'Create Deployment Share' and 'Delete Deployment Share' visible. The system tray at the bottom right shows the time as 6:13 PM on 2/12/2017.

MDT | CONFIGURE DEPLOYMENT SHARE BOOT IMAGES FEATURES

The screenshot shows the MDT-SERVER Deployment Workbench interface. The main window displays the 'MDT Deployment Share (D:\MDT) Properties' dialog box, which is open to the 'Features' tab. The 'Platform' is set to 'x86'. The 'Feature Packs' list is visible, with the following items and their selection status:

Feature Name	Selected
<input type="checkbox"/> DISM Cmdlets	No
<input type="checkbox"/> IEEE 802.1x network authentication protocol	No
<input type="checkbox"/> Enhanced Storage	No
<input type="checkbox"/> Legacy fonts	No
<input type="checkbox"/> Japanese (JA-JP) language pack	No
<input type="checkbox"/> Korean (KO-KR) language pack	No
<input type="checkbox"/> winpe-fontsupport-winre	No
<input type="checkbox"/> Chinese (ZH-CN) language pack	No
<input type="checkbox"/> Chinese (ZH-HK) language pack	No
<input type="checkbox"/> Chinese (ZH-TW) language pack	No
<input checked="" type="checkbox"/> Microsoft Data Access Components (MDAC/ADO) support	Yes
<input type="checkbox"/> .NET Framework	No
<input type="checkbox"/> winpe-platformid	No
<input type="checkbox"/> Windows PowerShell	No

The 'OK' button is highlighted. The Windows taskbar at the bottom shows the time as 6:13 PM on 2/12/2017.

MDT | CONFIGURE DEPLOYMENT SHARE **BOOT IMAGES DRIVERS**

The screenshot shows the MDT-SERVER Deployment Workbench interface. The main window is titled "MDT Deployment Share (D:\MDT) Properties" and is open to the "Drivers and Patches" tab. The "Platform" is set to "x86". Under the "Driver Injection" section, the "Selection profile" is set to "WinPE-10-Drivers". The "Include only drivers of the following types:" radio button is selected, and the following options are checked:

- Include all network drivers in the selection profile
- Include all mass storage drivers in the selection profile
- Include all video drivers in the selection profile
- Include all system-class drivers in the selection profile

The "OK" button is highlighted. The taskbar at the bottom shows the time as 6:15 PM on 2/12/2017.

MDT | CONFIGURE DEPLOYMENT SHARE MONITORING

The screenshot displays the 'MDT Deployment Share (D:\MDT) Properties' dialog box in the 'Monitoring' tab. The 'Enable monitoring for this deployment share' checkbox is checked and highlighted with a red box. The 'Monitoring host' is set to 'MDT-SERVER', 'Event port' is 9800, and 'Data port' is 9801. The background shows the Deployment Workbench interface with a tree view on the left and a file list on the right. The taskbar at the bottom shows the Windows logo, search icon, and system tray with the time 6:16 PM and date 2/12/2017.

MDT-SERVER

DeploymentWorkbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (D:\MDT)]

File Action View Help

MDT Deployment Share (D:\MDT) Properties

General Rules Windows PE Monitoring

Enable monitoring for this deployment share

Monitoring host: MDT-SERVER

Event port: 9800

Data port: 9801

OK Cancel Apply Help

Deployment Workbench

- Information Center
- Documentation
- Deployment Shares
 - MDT Deployment Share
 - Applications
 - Operating Systems
 - Out-of-Box Images
 - WinPE-Images
 - Dell
 - HP
 - Packages
 - Task Sequences
 - Advanced
 - Selective Deployment
 - Linked Images
 - Media
 - Databases
 - Monitoring

Deployment Share (D:\MDT)

- Create Deployment Share
- Remove Deployment Share
- Refresh
- Export List...
- Properties

6:16 PM 2/12/2017

UPDATE DEPLOYMENT SHARE **STEP #8**

MICROSOFT DEPLOYMENT TOOLKIT (MDT)

MDT | UPDATE DEPLOYMENT SHARE

The screenshot displays the Deployment Workbench application window titled "MDT-SERVER". The address bar shows the path "Deployment Workbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (D:\MDT)]". The interface is divided into several panes:

- Left Pane (Navigation Tree):** Shows a tree view under "Deployment Workbench". The "MDT Deployment Share (D:\MDT)" folder is selected and expanded, showing subfolders like "Applications", "Operating Systems", "Out-of-Box Drivers", "WinPE-10", "Packages", "Task Sequences", "Advanced Configuration", "Linked Deployment Shares", "Media", "Database", and "Monitoring".
- Center Pane (File List):** Displays a list of files and folders. The "Update Deployment Share" option is highlighted in the context menu.
- Right Pane (Actions):** Shows a list of actions available for the selected deployment share, including "Update Deployment Share", "Close Deployment Share", "View", "Refresh", "Export List...", "Properties", and "Help".

At the bottom of the window, a status bar displays the message "Update the selected deployment share". The Windows taskbar at the very bottom shows the system tray with the time "6:16 PM" and date "2/12/2017".

MDT | UPDATE DEPLOYMENT SHARE **BUILDS WIM & ISO BOOT IMAGES**

The screenshot shows the 'Update Deployment Share Wizard' dialog box in the MDT-SERVER environment. The wizard is currently on the 'Options' step. The 'Options' section is selected in the left-hand navigation pane, which also lists 'Summary', 'Progress', and 'Confirmation'. The main content area contains the following text:

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

Optimize the boot image updating process.

Compress the boot image contents to recover space used by removed or modified content.

Completely regenerate the boot images.

At the bottom of the wizard, there are three buttons: 'Previous' (disabled), 'Next' (active), and 'Cancel'.

The background shows the 'Deployment Workbench' interface with a tree view on the left containing folders like 'Information Center', 'Documentation', 'Deployment Shares', 'MDT Deployment', 'Application', 'Operating S', 'Out-of-Box', 'WinPE-', 'Dell', 'HP', 'Packages', 'Task Sequen', 'Advanced C', 'Selection', 'Linked D', 'Media', 'Databas', and 'Monitoring'. The taskbar at the bottom shows the Windows logo, search icon, and several application icons, along with the system tray displaying the time '6:17 PM' and date '2/12/2017'.

MDT | UPDATE DEPLOYMENT SHARE

The screenshot shows the MDT-SERVER Deployment Workbench interface. The main window is titled "MDT-SERVER" and shows the "Deployment Workbench" tree on the left. The "Update Deployment Share Wizard" is open, displaying the "Progress" step. The wizard is currently adding the component "winpe-securestartup".

Update Deployment Share Wizard

Progress

Options
Summary
Progress
Confirmation

Adding component winpe-securestartup

Building requested boot image profile.
Determining if any changes have been made in the boot image configuration.
No existing boot image profile found for platform x86 so a new image will be created.
Calculating hashes for requested content.
Changes have been made, boot image will be updated.
Windows PE WIM C:\Program Files (x86)\Windows Kits\10\Assessment and Deployment Kit\Windows PE\WinPE-WIM\WIM file mounted.
Set Windows PE system root.
Set Windows PE scratch space.
Added component winpe-hta
Added component winpe-scripting
Added component winpe-wmi

Stop Execution

Previous Finish Cancel

6:17 PM
2/12/2017

MDT | UPDATE DEPLOYMENT SHARE

The screenshot shows the 'Update Deployment Share Wizard' in the 'Confirmation' step. The wizard is titled 'Update Deployment Share Wizard' and has a 'Confirmation' tab selected in the left-hand navigation pane. The main area displays a message: 'The process completed successfully.' Below this message is a scrollable text box containing the following log output:

```
=== 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.  
No existing boot image profile found for platform x64 so a new image will be created.  
Calculating hashes for requested content.  
Changes have been made, boot image will be updated.  
Windows PE WIM C:\Program Files (x86)\Windows Kits\10\Assessment and Deployment Kit\Windows PE\WinPE_x64\WinPE-WIM\WIM file mounted.  
Set Windows PE system root.  
Set Windows PE scratch space.  
Added component winpe-hta  
Added component winpe-scripting  
Added component winpe-wmi  
Added component winpe-securestartup  
Added component winpe-fmapi  
Added component winpe-mdac  
Final WIM: ACXAM\NETX\00770-10-10-0-0
```

At the bottom of the wizard, there are buttons for 'Save Output...', 'View Script', 'Previous', 'Finish', and 'Cancel'. The 'Finish' button is highlighted. The background shows the 'Deployment Workbench' interface with a tree view on the left and a right-hand pane showing the 'MDT Deployment Share (D:\MDT)' folder.



6:21 PM
2/12/2017



WHEN YOU SHOULD UPDATE YOUR DEPLOYMENT SHARE

- ▶ Add drivers to PXE boot images
- ▶ BootStrap.ini configuration changed
- ▶ Upgraded ADK to newer version
- ▶ Upgraded MDT to newer version

BOOTSTRAP.INI

MDT DRIVERS

MDT FEATURES

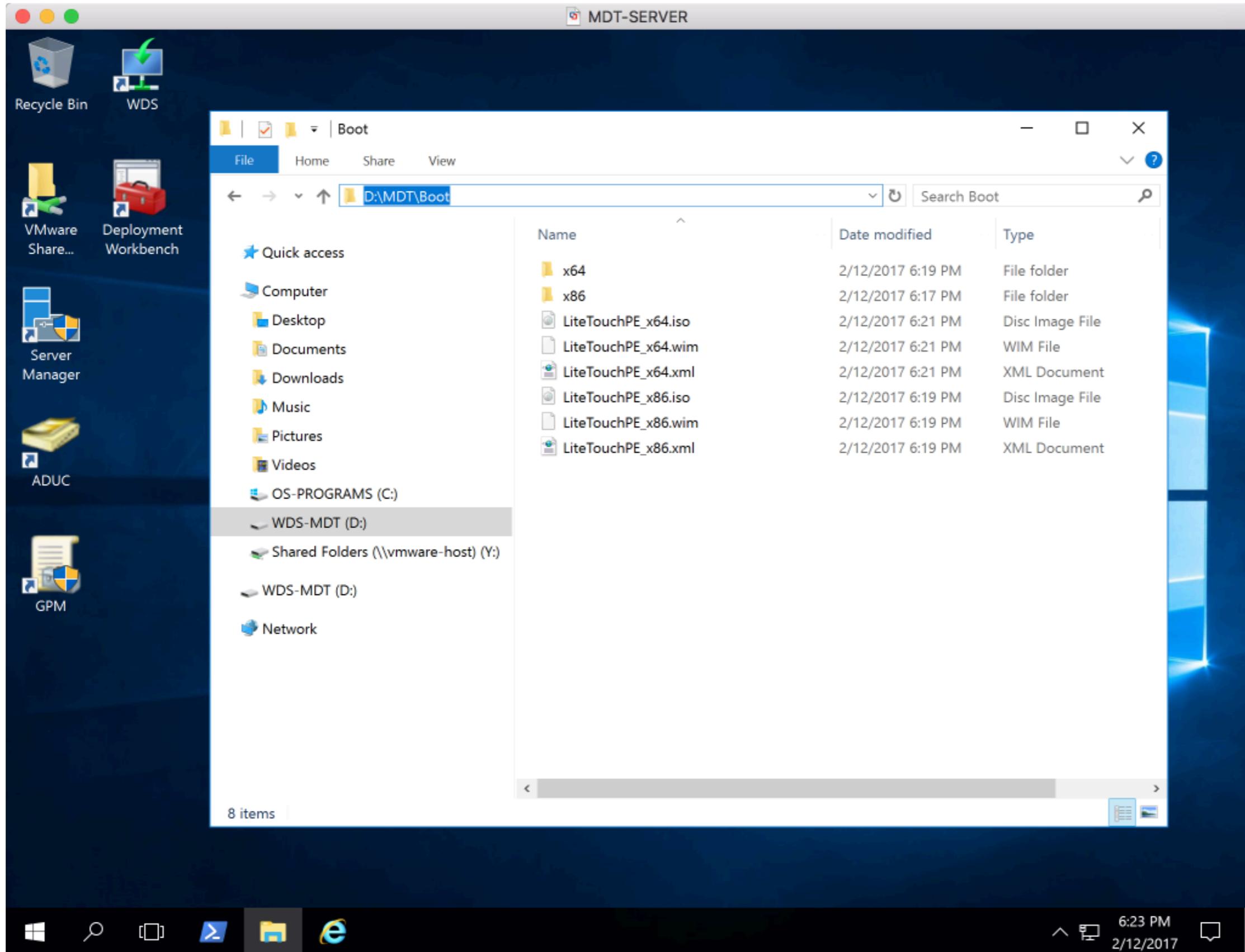
**BUILT FROM ADK
WINPE IMAGES**

WinPE Boot Image for WDS

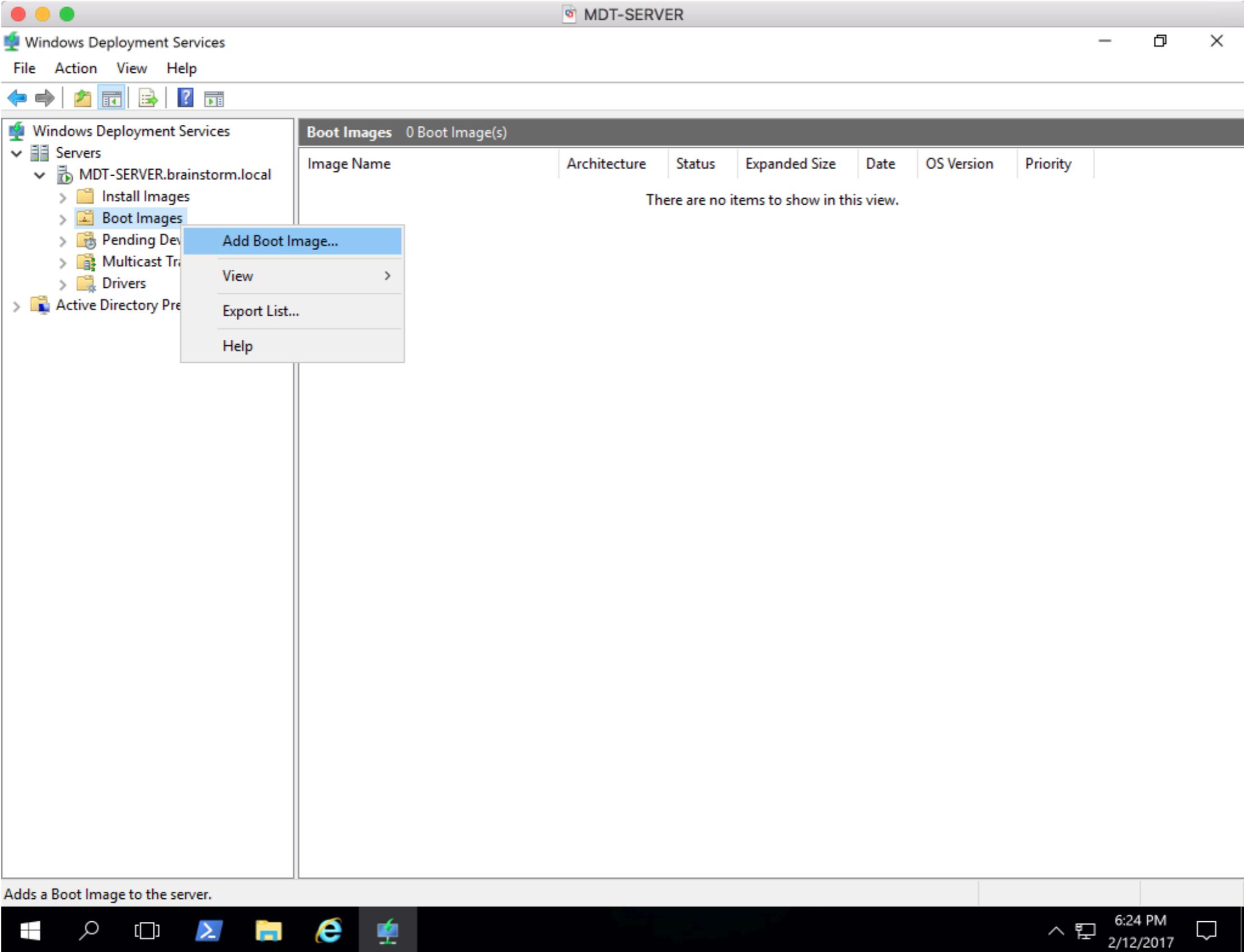
IMPORT MDT BOOT IMAGES **STEP #9**

WINDOWS DEPLOYMENT SERVICES (WDS)

WDS | IMPORT MDT BOOT IMAGES



WDS | IMPORT MDT BOOT IMAGES

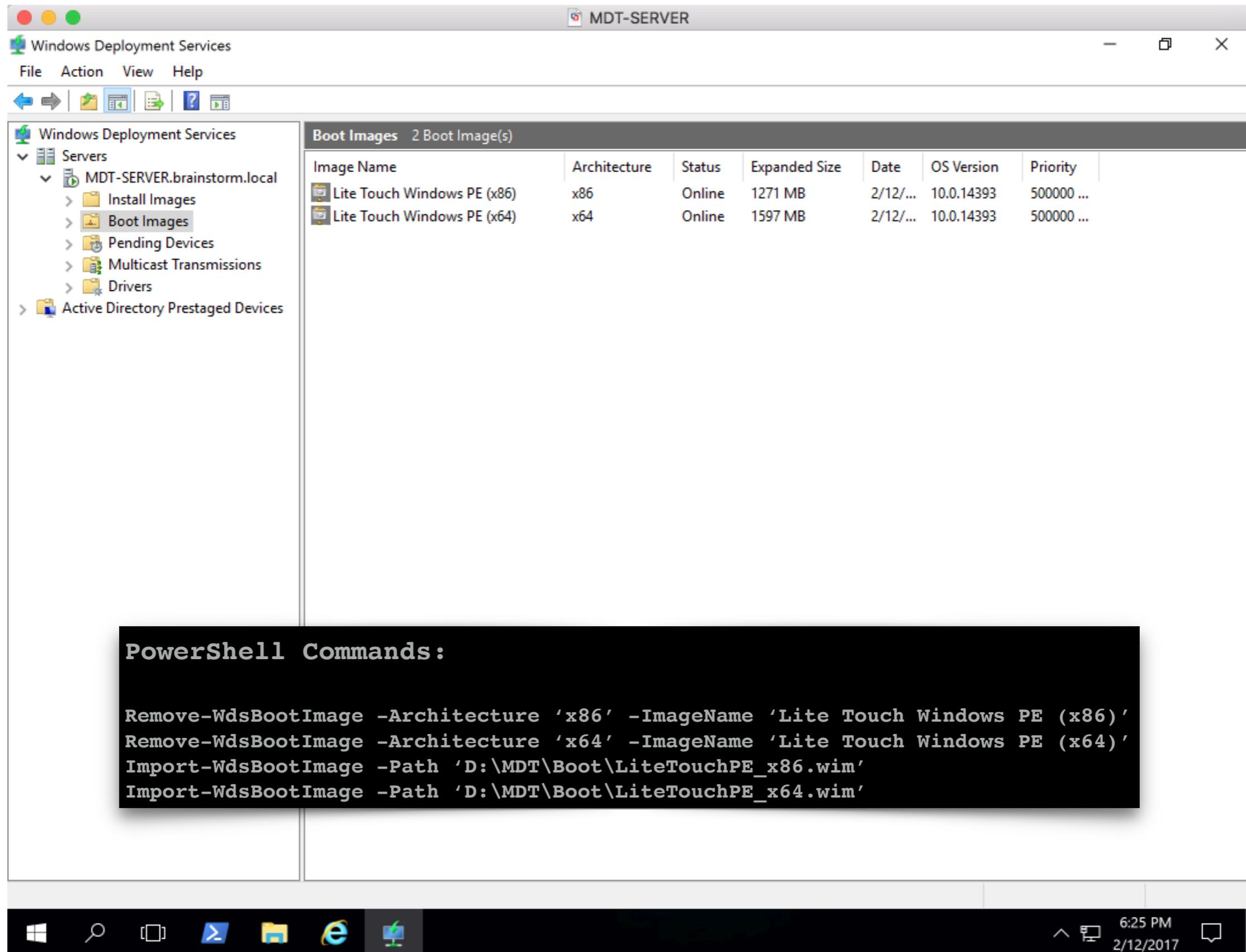


Adds a Boot Image to the server.

WDS | IMPORT MDT BOOT IMAGES

The screenshot shows the Windows Deployment Services (WDS) console on an MDT-SERVER. The left pane shows the server hierarchy: Servers > MDT-SERVER.brainstorm.local > Boot Images. The main pane shows a table with columns: Image Name, Architecture, Status, Expanded Size, Date, OS Version, and Priority. An 'Add Image Wizard' dialog box is open, titled 'Image File'. It prompts the user to 'Enter the location of the Windows image file that contains the images to add.' The 'File location:' field contains the path 'D:\MDT\Boot\LiteTouchPE_x86.wim', which is highlighted with a red rectangular box. A 'Browse...' button is to the right of the text box. Below the text box, a note states: 'Note: The default boot and install images (Boot.wim and Install.wim) are located on the installation DVD in the \Sources folder.' A link for 'More information about images and image types' is provided. At the bottom of the dialog are buttons for '< Back', 'Next >', and 'Cancel'. The taskbar at the bottom shows the time as 6:24 PM on 2/12/2017.

WDS | IMPORT MDT BOOT IMAGES



Windows Deployment Services

File Action View Help

Windows Deployment Services

- Servers
 - MDT-SERVER.brainstorm.local
 - Install Images
 - Boot Images
 - Pending Devices
 - Multicast Transmissions
 - Drivers
 - Active Directory Prestaged Devices

Boot Images 2 Boot Image(s)

Image Name	Architecture	Status	Expanded Size	Date	OS Version	Priority
Lite Touch Windows PE (x86)	x86	Online	1271 MB	2/12/...	10.0.14393	500000 ...
Lite Touch Windows PE (x64)	x64	Online	1597 MB	2/12/...	10.0.14393	500000 ...

PowerShell Commands:

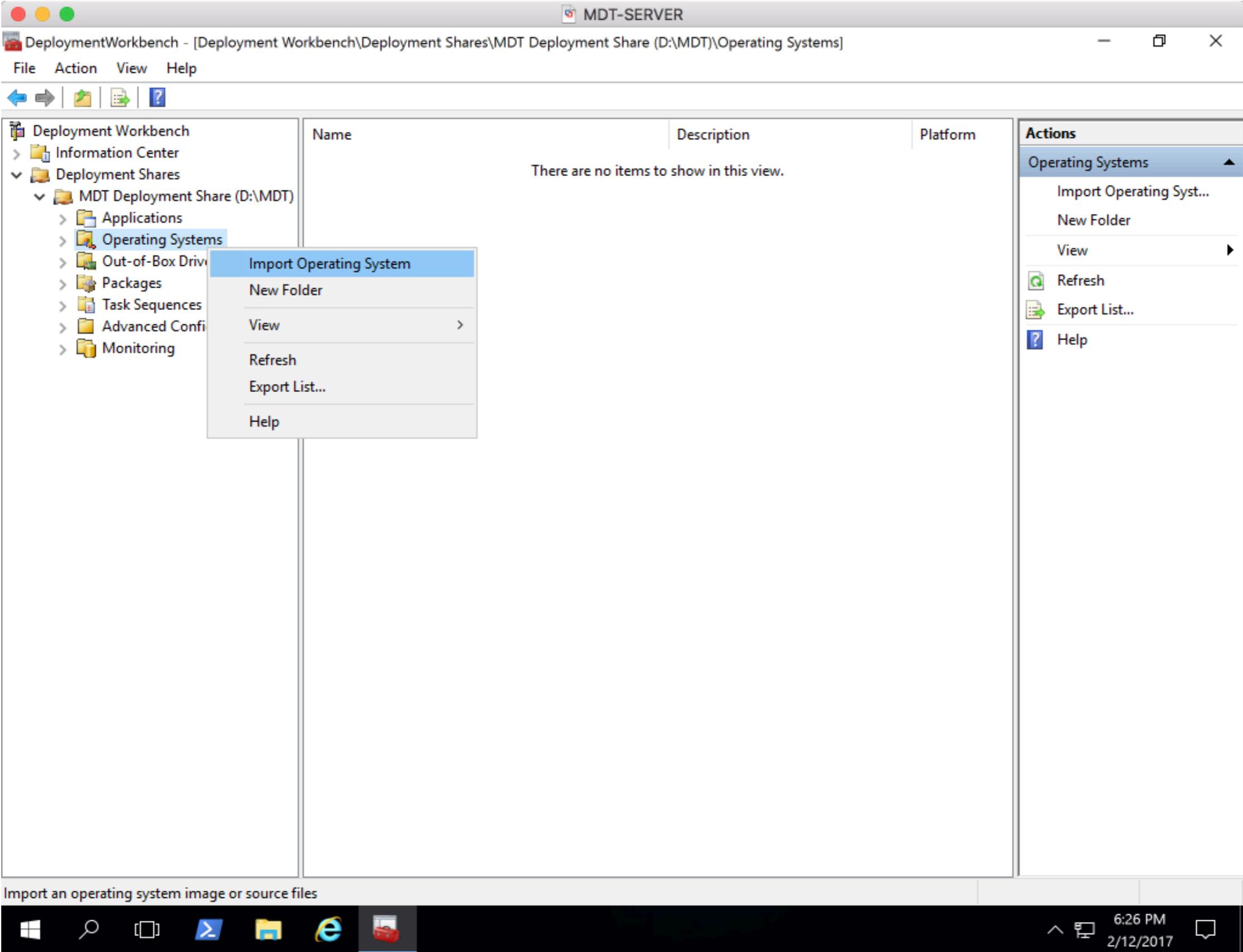
```
Remove-WdsBootImage -Architecture 'x86' -ImageName 'Lite Touch Windows PE (x86)'  
Remove-WdsBootImage -Architecture 'x64' -ImageName 'Lite Touch Windows PE (x64)'  
Import-WdsBootImage -Path 'D:\MDT\Boot\LiteTouchPE_x86.wim'  
Import-WdsBootImage -Path 'D:\MDT\Boot\LiteTouchPE_x64.wim'
```

6:25 PM
2/12/2017

IMPORTING OPERATING SYSTEMS **STEP #10**

MICROSOFT DEPLOYMENT TOOLKIT (MDT)

WDS | IMPORTING OPERATING SYSTEMS



WDS | IMPORTING OPERATING SYSTEMS

The screenshot shows the 'Import Operating System Wizard' in the Deployment Workbench application. The wizard is currently on the 'OS Type' step, which is highlighted in the left-hand navigation pane. The main area of the wizard displays the following options:

- Full set of source files
The operating system being added consists of source files from a Windows DVD, CD, or equivalent.
- Custom image file
Add a captured image (WIM file) that you wish to deploy.
- Windows Deployment Services images
Add the images available on a specific Windows Deployment Services server.

The 'Full set of source files' option is highlighted with a red rectangular box. At the bottom of the wizard, there are three buttons: 'Previous' (disabled), 'Next' (active), and 'Cancel'.

The background shows the Deployment Workbench interface with the 'Operating Systems' folder selected in the left pane. The taskbar at the bottom indicates the time is 6:27 PM on 2/12/2017.

WDS | IMPORTING OPERATING SYSTEMS

The screenshot shows the 'Import Operating System Wizard' in the 'Source' step. The wizard is titled 'Import Operating System Wizard' and has a 'Source' icon. The left pane shows the 'OS Type' list with 'Source' selected. The main area contains the following text: 'In order to add an operating system, all the files for that operating system need to be copied to the deployment share. Specify the location of these files (typically a CD drive).'. Below this text is a 'Source directory:' field containing 'E:\', which is highlighted with a red box. A 'Browse For Folder' dialog box is open, showing a list of folders and drives. The 'DVD Drive (E:) CPRA_X64FREV_EN-US_DV5' is highlighted with a red box. The 'Browse...' button is also highlighted with a blue box. At the bottom of the wizard, there are 'Previous', 'Next', and 'Cancel' buttons.

DeploymentWorkbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (D:\MDT)\Operating Systems]

File Action View Help

Import Operating System Wizard

Source

OS Type

- Source
- Image
- Setup
- WDS Server
- Destination
- Summary
- Progress
- Confirmation

In order to add an operating system, all the files for that operating system need to be copied to the deployment share. Specify the location of these files (typically a CD drive).

Source directory: E:\

Move the files to

Browse For Folder

Browse...

- Desktop
- administrator
- Computer
- Libraries
- DVD Drive (E:) CPRA_X64FREV_EN-US_DV5
- WDS-MDT (D:)
- Network
- Control Panel
- Recycle Bin

OK Cancel

Previous Next Cancel

6:28 PM 2/12/2017

WDS | IMPORTING OPERATING SYSTEMS

The screenshot shows the 'Import Operating System Wizard' in the Deployment Workbench application. The wizard is currently in the 'Progress' step, which is highlighted in the left-hand navigation pane. The main area of the wizard displays the following information:

- OS Type:** Windows 10 Pro x64
- Source:** E:\sources\install.wim
- Image:** D:\MDT\Operating Systems\Windows 10 Pro x64\sources\install.wim
- Progress:** Copying "E:\sources\install.wim" to "D:\MDT\Operating Systems\Windows 10 Pro x64\sources\install.wim" (44%). A green progress bar indicates the current status.

Below the progress bar, a text box contains the message: "Performing the operation 'import' on target 'Operating system'." At the bottom of the wizard, there are three buttons: "Previous", "Finish", and "Cancel". A "Stop Execution" button is also visible near the bottom right of the main content area.

The background shows the Deployment Workbench interface with the 'MDT Deployment Shares' folder expanded to show the 'Operating Systems' folder. The taskbar at the bottom indicates the time is 6:29 PM on 2/12/2017.

WDS | IMPORTING OPERATING SYSTEMS

The screenshot shows the Deployment Workbench application window titled "MDT-SERVER". The address bar indicates the current location is "Deployment Workbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (D:\MDT)\Operating Systems]". The interface includes a menu bar (File, Action, View, Help), a toolbar with navigation icons, and a left-hand navigation pane. The navigation pane shows a tree view with "Deployment Workbench" expanded to "MDT Deployment Share (D:\MDT)", where the "Operating Systems" folder is selected. The main pane displays a table with the following data:

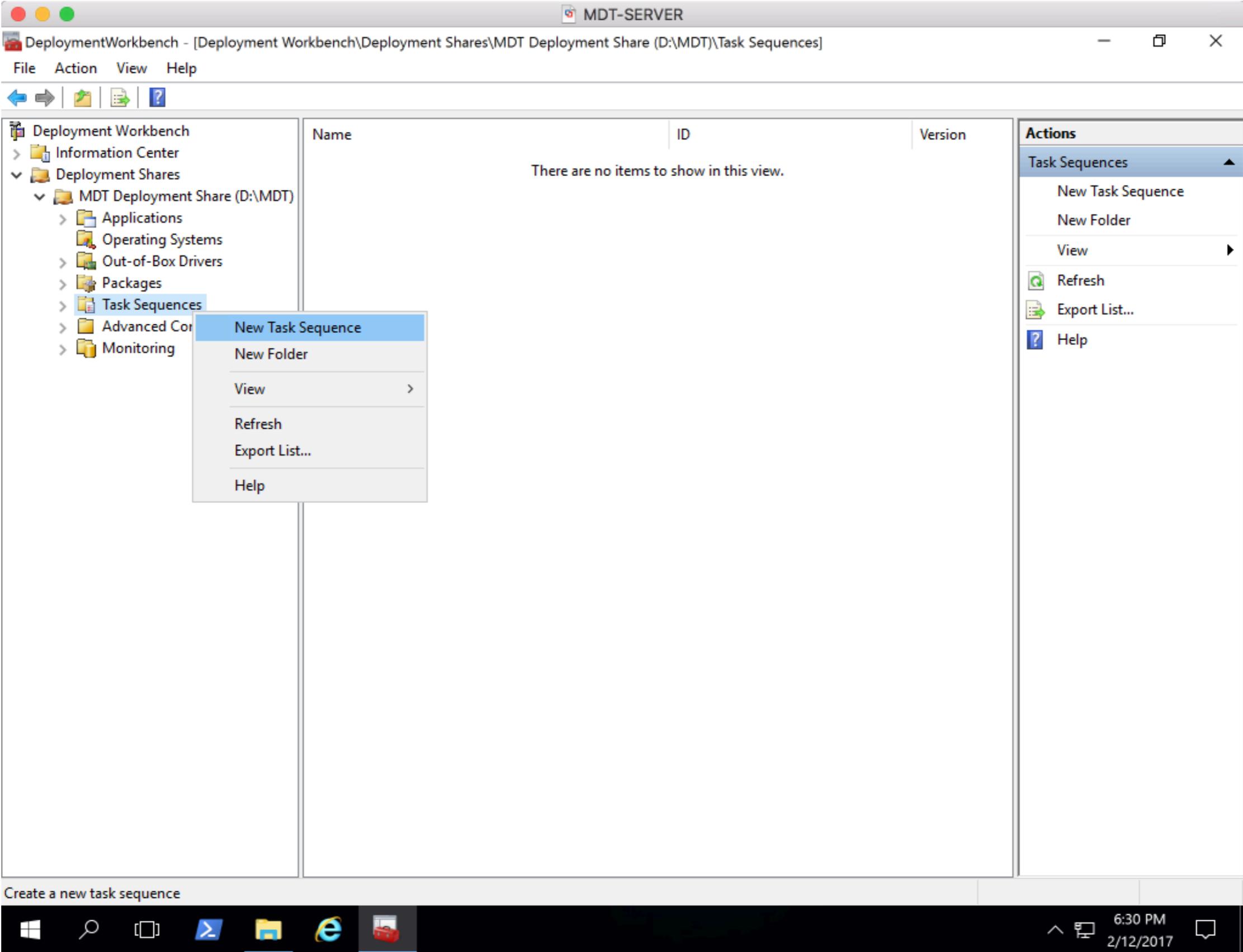
Name	Description	Platform
Windows 10 Pro in Windows 10 Pro x64 install.wim	Windows 10 Pro	x64

On the right side, the "Actions" pane is open, showing a context menu for the selected item. The menu includes "Operating Systems" (expanded), "Import Operating Syst...", "New Folder", "View", "Refresh", "Export List...", "Help", and a second section for "Windows 10 Pro in Window..." with actions like "Cut", "Copy", "Delete", "Rename", "Properties", and "Help". The Windows taskbar at the bottom shows the time as 6:30 PM on 2/12/2017.

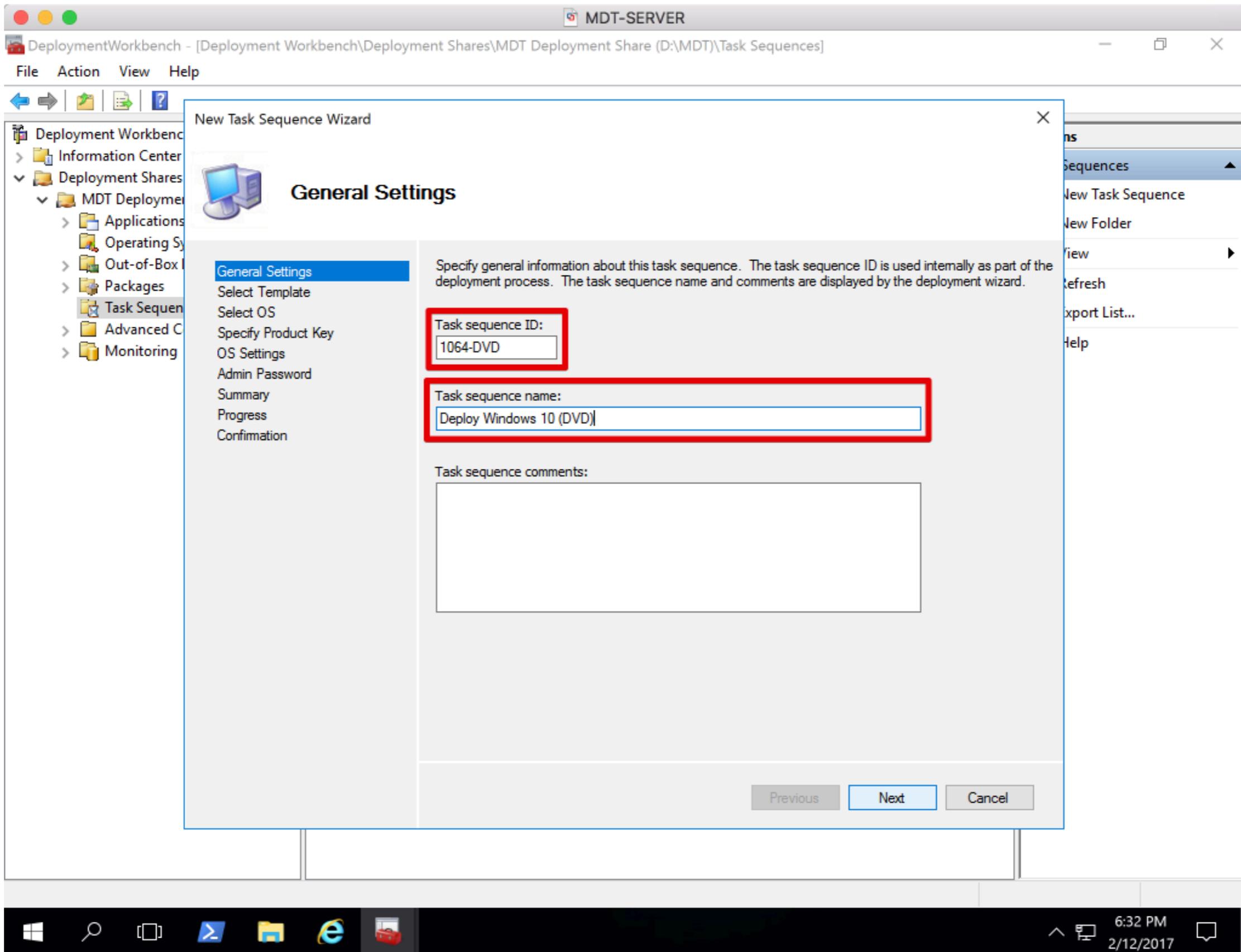
CREATING TASK SEQUENCES **STEP #11**

MICROSOFT DEPLOYMENT TOOLKIT (MDT)

WDS | CREATING TASK SEQUENCES



WDS | CREATING TASK SEQUENCES



The screenshot shows the 'New Task Sequence Wizard' in the Deployment Workbench application. The window title is 'MDT-SERVER' and the address bar shows the path: 'DeploymentWorkbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (D:\MDT)\Task Sequences]'. The 'General Settings' step is selected in the left-hand navigation pane. The main area displays the following information:

- General Settings**: Specify general information about this task sequence. The task sequence ID is used internally as part of the deployment process. The task sequence name and comments are displayed by the deployment wizard.
- Task sequence ID:** 1064-DVD
- Task sequence name:** Deploy Windows 10 (DVD)
- Task sequence comments:** (Empty text box)

At the bottom of the wizard, there are three buttons: 'Previous' (disabled), 'Next' (active), and 'Cancel'.

The Windows taskbar at the bottom shows the time as 6:32 PM on 2/12/2017.

WDS | CREATING TASK SEQUENCES

The screenshot shows the 'MDT-SERVER' window with the 'DeploymentWorkbench' interface. The 'New Task Sequence Wizard' dialog box is open, displaying the 'Select Template' step. The wizard's progress bar shows the following steps: General Settings, **Select Template**, Select OS, Specify Product Key, OS Settings, Admin Password, Summary, Progress, and Confirmation. The 'Standard Client Task Sequence' is selected in the dropdown menu, which is highlighted with a red box. Below the dropdown, the description reads: 'A complete task sequence for deploying a client operating system'. At the bottom of the wizard, there are 'Previous', 'Next', and 'Cancel' buttons. The background shows the 'Task Sequences' folder in the left-hand pane, and the Windows taskbar at the bottom displays the time as 6:33 PM on 2/12/2017.

WDS | CREATING TASK SEQUENCES

The screenshot shows the 'New Task Sequence Wizard' dialog box in the MDT-SERVER environment. The wizard is currently on the 'Select OS' step. The main area displays the following text: 'The following operating system images are available to be deployed with this task sequence. Select the one to use.' Below this text is a list of available OS images:

- Operating Systems
 - Windows 10 Pro in Windows 10 Pro x64 install.wim

The 'Windows 10 Pro in Windows 10 Pro x64 install.wim' file is highlighted with a blue selection bar and a red rectangular border. The wizard includes a sidebar on the left with the following navigation options: General Settings, Select Template, Select OS (highlighted), Specify Product Key, OS Settings, Admin Password, Summary, Progress, and Confirmation. At the bottom of the wizard, there are three buttons: 'Previous', 'Next' (highlighted), and 'Cancel'. The background shows the Deployment Workbench interface with a file explorer view of the 'Task Sequences' folder.

WDS | CREATING TASK SEQUENCES

MDT-SERVER

DeploymentWorkbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (D:\MDT)\Task Sequences]

File Action View Help

Deployment Workbench

- Information Center
- Deployment Shares
 - MDT Deployment Shares
 - Applications
 - Operating Systems
 - Out-of-Box Images
 - Packages
 - Task Sequences
 - Advanced Configuration
 - Monitoring

New Task Sequence Wizard

Specify Product Key

- General Settings
- Select Template
- Select OS
- Specify Product Key**
- OS Settings
- Admin Password
- Summary
- Progress
- Confirmation

Do 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 Microsoft activation service on the internet. This is only supported for Windows 7 and later operating systems when using volume license media.
MAK Product Key:

Specify the product key for this operating system.
Specify a retail product key. (Note that retail keys can only be used to activate a single machine.)
Product Key:

Previous Next Cancel

6:34 PM 2/12/2017

WDS | CREATING TASK SEQUENCES

The screenshot shows the 'New Task Sequence Wizard' dialog box in the Deployment Workbench application. The wizard is currently on the 'OS Settings' step. The left sidebar lists the steps: General Settings, Select Template, Select OS, Specify Product Key, OS Settings (selected), Admin Password, Summary, Progress, and Confirmation. The main area displays the following settings:

- Full Name:** -
- Organization:** Source One Technology, Inc.
- Internet Explorer Home Page:** about:blank

At the bottom of the wizard, there are three buttons: Previous, Next, and Cancel. The 'Next' button is highlighted in blue. The background shows the Deployment Workbench interface with a tree view on the left and a context menu on the right.

WDS | CREATING TASK SEQUENCES

MDT-SERVER

DeploymentWorkbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (D:\MDT)\Task Sequences]

File Action View Help

Deployment Workbench

- Information Center
- Deployment Shares
 - MDT Deployment
 - Applications
 - Operating System
 - Out-of-Box Images
 - Packages
 - Task Sequences
 - Advanced Configuration
 - Monitoring

New Task Sequence Wizard

Admin Password

General Settings
Select Template
Select OS
Specify Product Key
OS Settings
Admin Password
Summary
Progress
Confirmation

Specify the local Administrator password for this task sequence.

Use the specified local Administrator password.

Administrator Password:
.....

Please confirm Administrator Password:
.....

Do not specify an Administrator password at this time.

The local Administrator password will be provided during the deployment of this task sequence, so it is not needed as part of the task sequence definition.

Previous Next Cancel

6:35 PM
2/12/2017

WDS | CREATING TASK SEQUENCES

The screenshot displays the 'MDT-SERVER' window with the 'Deployment Workbench' interface. The 'New Task Sequence Wizard' is open, showing the 'Confirmation' step. The wizard's progress bar includes: General Settings, Select Template, Select OS, Specify Product Key, OS Settings, Admin Password, Summary, Progress, and Confirmation (which is currently selected). The main area of the wizard displays a confirmation message: 'The process completed successfully.' Below this message is a text box containing the following log output:

```
Performing the operation "import" on target "Task sequence".  
Beginning task sequence import  
Creating new item named Deploy Windows 10 (DVD) at DS001:\Task Sequences.  
Import processing finished.
```

At the bottom of the wizard, there are buttons for 'Save Output...', 'View Script', 'Previous', 'Finish', and 'Cancel'. The 'Finish' button is highlighted. In the background, the 'Task Sequences' folder in the left-hand navigation pane is selected, and a context menu is visible with options like 'New Task Sequence', 'New Folder', 'View', 'Refresh', 'Export List...', and 'Help'. The Windows taskbar at the bottom shows the time as 6:35 PM on 2/12/2017.

WDS | CREATING TASK SEQUENCES

The screenshot shows the Deployment Workbench application window titled "MDT-SERVER". The address bar indicates the current location is "Deployment Workbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (D:\MDT)\Task Sequences]". The interface is divided into three main panes:

- Left Pane (Navigation):** Shows a tree view of the Deployment Workbench structure. The "Task Sequences" folder under "MDT Deployment Share (D:\MDT)" is selected.
- Center Pane (Table):** Displays a table with columns "Name", "ID", and "Version". One row is visible: "Deploy Windows 10 (DVD)" with ID "1064-DVD" and Version "1.0". A context menu is open over this row, listing options: Cut, Copy, Delete, Rename, Properties (highlighted), and Help.
- Right Pane (Actions):** Shows a list of actions for the selected task sequence. The "Task Sequences" section includes "New Task Sequence", "New Folder", "View", "Refresh", "Export List...", and "Help". The "Deploy Windows 10 (DVD)" section includes "Cut", "Copy", "Delete", "Rename", "Properties", and "Help".

At the bottom of the window, a status bar contains the text: "Opens the properties dialog box for the current selection."

The Windows taskbar at the bottom shows the system clock as 9:30 AM on 2/15/2017.

WDS | CREATING TASK SEQUENCES

The screenshot displays the Microsoft Deployment Toolkit (MDT) interface. The main window is titled "MDT-SERVER" and shows the "DeploymentWorkbench" for the "MDT Deployment Share (D:\MDT)\Task Sequences". A dialog box titled "Deploy Windows 10 (DVD) Properties" is open, showing the "Task Sequence" tab. The task sequence tree on the left includes "Initialization", "Validation", "State Capture", "Preinstall", "Install", "Next Phase", "Postinstall", "State Restore", "Gather local only", "Post-Apply Cleanup", "Recover From Domain", "Tattoo", "Opt In to CEIP and WER", "Windows Update (Pre-Application Install)", "Install Applications", "Windows Update (Post-Application Install)", "Custom Tasks", "Enable BitLocker", "Restore User State", "Restore Groups", "Apply Local GPO Package", and "Imaging". The "Add" button is highlighted in red. The "Install Operating System" task is selected and highlighted in blue. The "Install Applications" task is also highlighted in blue. The "Properties" pane on the right shows the "Type" and "Name" set to "Install Operating System". The "Operating system to install:" field contains "Windows 10 Pro in Windows 10 Pro x64 install.wim". The "Variable:" field is set to "OSDisk". The Windows taskbar at the bottom shows the time as 9:21 AM on 2/15/2017.

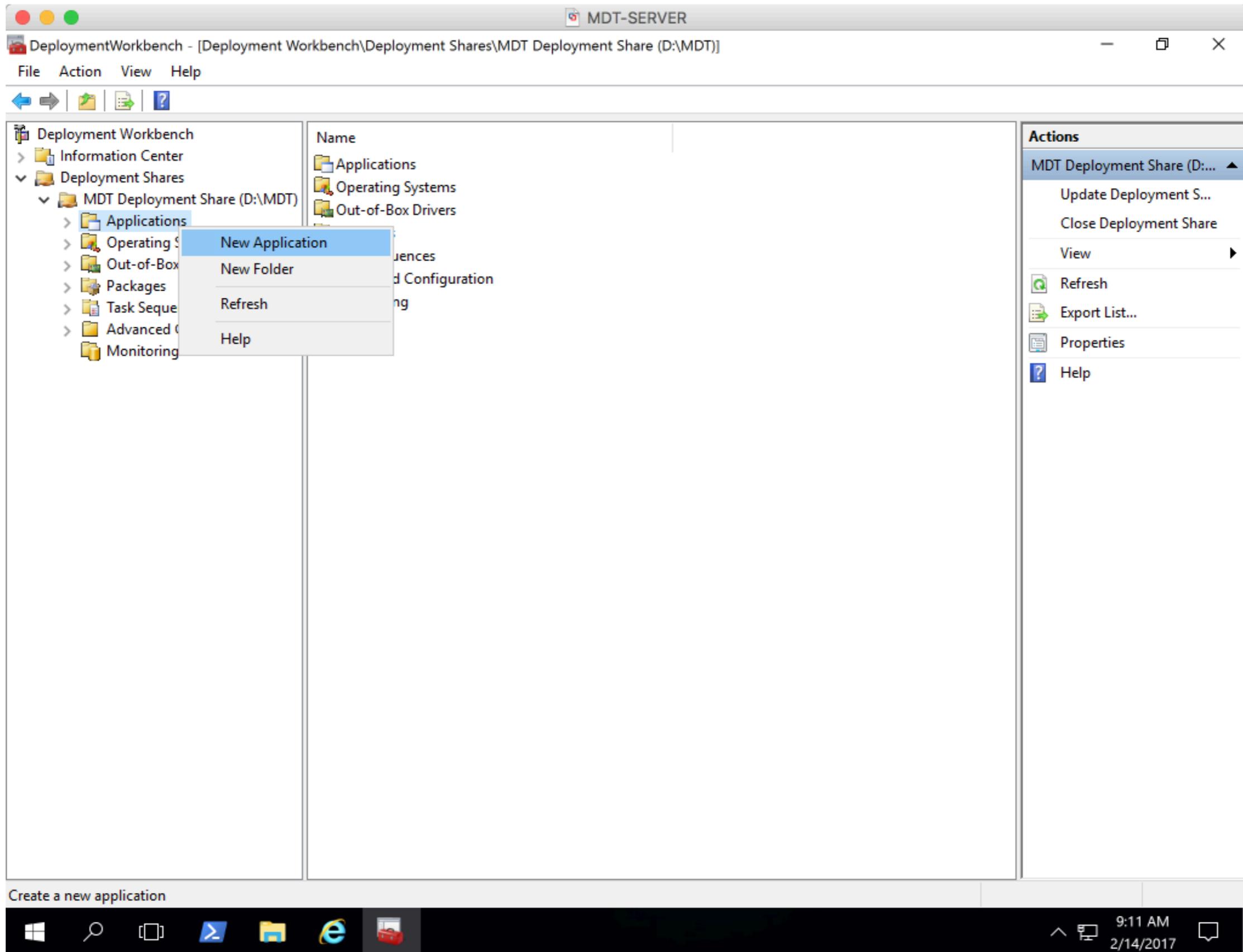
WDS | CREATING TASK SEQUENCES

The screenshot displays the Microsoft Deployment Toolkit (MDT) interface. The main window is titled "MDT-SERVER" and shows the "Deployment Workbench" for "MDT Deployment Share (D:\MDT)\Task Sequences". The "Deploy Windows 10 (DVD) Properties" dialog box is open, showing the "Task Sequence" tab. The task sequence tree on the left includes "Preinstall", "Install", and "Postinstall" phases. The "Inject Drivers" task is highlighted with a red box. The right pane shows the properties for this task, including "Type: Inject Drivers", "Name: Inject Drivers", and "Description:". The "Choose a selection profile:" dropdown is also highlighted with a red box and set to "All Drivers". Below the dropdown, there are two radio button options: "Install only matching drivers from the selection profile" (selected) and "Install all drivers from the selection profile". The dialog box has "OK", "Cancel", "Apply", and "Help" buttons at the bottom. The Windows taskbar at the bottom shows the time as 9:31 AM on 2/15/2017.

ADDING APPLICATIONS **STEP #12**

MICROSOFT DEPLOYMENT TOOLKIT (MDT)

MDT | ADDING APPLICATIONS



MDT | ADDING APPLICATIONS

The screenshot shows the MDT-SERVER Deployment Workbench interface. A 'New Application Wizard' dialog box is open, displaying the 'Application Type' step. The wizard has a sidebar with the following steps: Application Type (selected), Details, Source, Destination, Command Details, Summary, Progress, and Confirmation. The main area of the wizard contains the following text and options:

Specify the type of application to add.

- Application with source files
Copy the source files for this application to the deployment share, which will be used for installing the application.
- Application without source files or elsewhere on the network.
Either no source files are required for this application, or the application exists at a separate UNC path (e.g. a DFS share).
- Application bundle.
Create a new application bundle. There is no installation command associated with this application. Instead, only the dependencies of this application will be installed. These dependencies can be configured after the item has been added.

At the bottom of the wizard, there are three buttons: 'Previous' (disabled), 'Next' (active), and 'Cancel' (disabled). The background shows the Deployment Workbench interface with a tree view on the left and a context menu on the right. The taskbar at the bottom shows the Windows logo, search icon, and system tray with the time 9:12 AM and date 2/14/2017.

MDT | ADDING APPLICATIONS

The screenshot shows the 'New Application Wizard' in the MDT-SERVER environment. The wizard is currently on the 'Details' step, which is highlighted in the left-hand navigation pane. The main area of the wizard is titled 'Specify the details for this application.' and contains several input fields. A red rectangular box highlights the following fields:

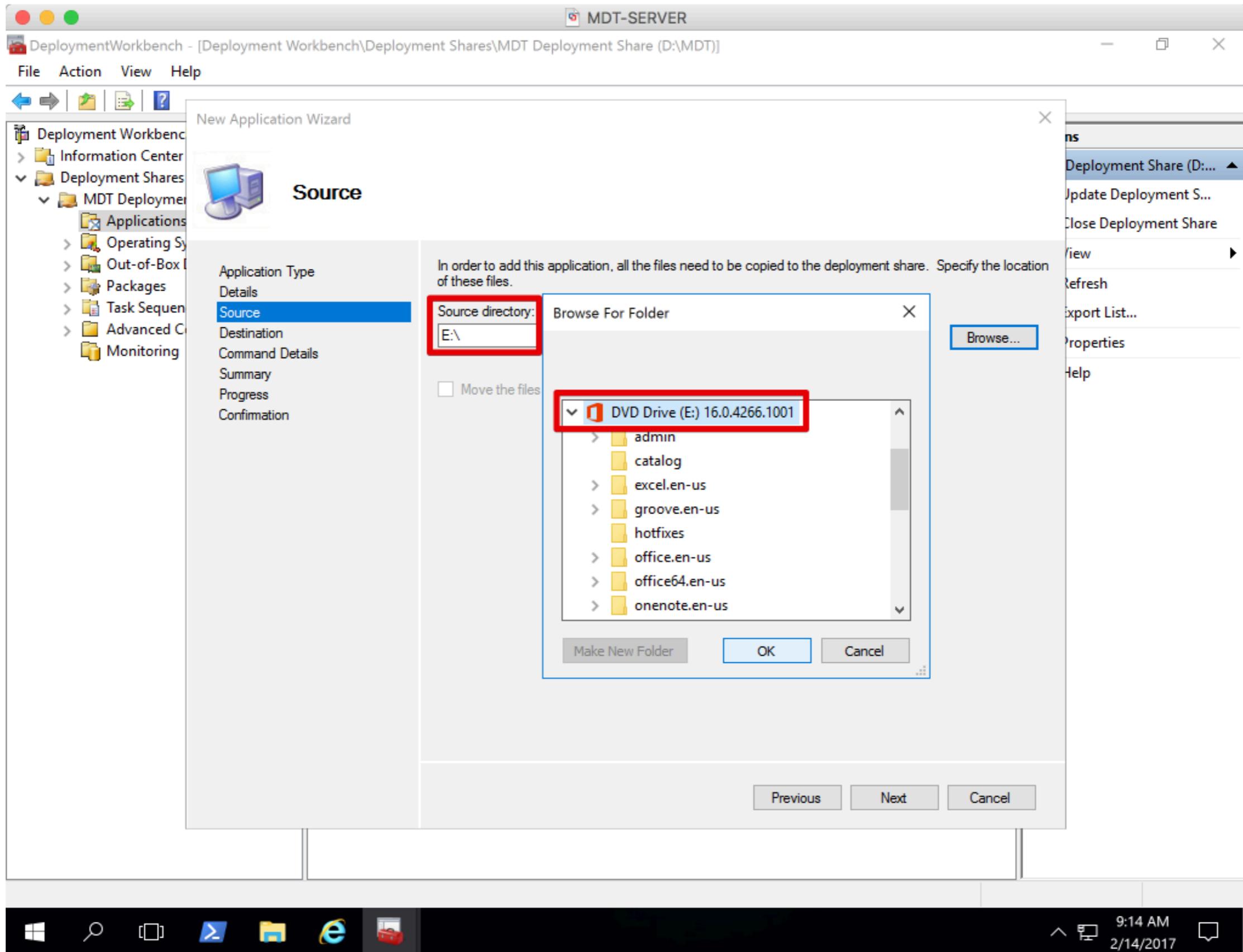
- Publisher: (Optional)**: Microsoft
- Application Name:**: Office
- Version: (Optional)**: 2016 Standard
- Language: (Optional)**: EN-US

At the bottom of the wizard, there are three buttons: 'Previous', 'Next', and 'Cancel'. The 'Next' button is highlighted in blue, indicating it is the active step.

The background shows the 'Deployment Workbench' interface with a tree view on the left containing 'Information Center', 'Deployment Shares', and 'MDT Deployment Shares'. The 'MDT Deployment Shares' folder is expanded, showing 'Applications', 'Operating System', 'Out-of-Box Images', 'Packages', 'Task Sequences', 'Advanced Configuration', and 'Monitoring'. The 'Applications' folder is selected, and a context menu is visible on the right side of the screen.

The taskbar at the bottom of the screen shows the Windows logo, search icon, task view icon, and several application icons. The system tray on the right shows the time as 9:15 AM on 2/14/2017.

MDT | ADDING APPLICATIONS



MDT | ADDING APPLICATIONS

The screenshot shows the 'New Application Wizard' dialog box in the MDT-SERVER environment. The 'Command Details' step is active, and the 'Command line' and 'Working directory' fields are highlighted with a red box. The 'Command line' field contains 'setup.exe' and the 'Working directory' field contains '.\Applications\Microsoft Office 2016 Standard'. The 'Previous' button is disabled, and the 'Next' button is enabled. The 'Cancel' button is also visible.

MDT-SERVER

DeploymentWorkbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (D:\MDT)]

File Action View Help

Deployment Workbench

- Information Center
- Deployment Shares
 - MDT Deployment Shares
 - Applications
 - Operating Systems
 - Out-of-Box Images
 - Packages
 - Task Sequences
 - Advanced Configuration
 - Monitoring

New Application Wizard

Command Details

Specify the quiet install command line and working directory needed to install this application.

Command line:
setup.exe

Working directory:
.\Applications\Microsoft Office 2016 Standard

Application Type
Details
Source
Destination
Command Details
Summary
Progress
Confirmation

Previous Next Cancel

9:17 AM
2/14/2017

MDT | ADDING APPLICATIONS

The screenshot shows the 'New Application Wizard' in the MDT-SERVER environment. The wizard is in the 'Confirmation' step, indicating that the application import process has completed successfully. The confirmation message, highlighted with a red box, reads: 'Performing the operation "import" on target "Application". Beginning application import. Copying application source files from E:\ to D:\MDT\Applications\Microsoft Office 2016 Standard. Creating new item named Microsoft Office 2016 at DS001:\Applications. Import processing finished.'

The wizard interface includes a left-hand navigation pane with the following steps: Application Type, Details, Source, Destination, Command Details, Summary, Progress, and Confirmation (which is currently selected). At the bottom of the wizard, there are buttons for 'Previous', 'Finish', and 'Cancel'. Additionally, there are buttons for 'Save Output...' and 'View Script' located above the 'Finish' button.

The background shows the Deployment Workbench interface with a tree view on the left containing 'Information Center', 'Deployment Shares', and 'MDT Deployments'. The 'MDT Deployments' folder is expanded to show 'Applications', 'Operating Systems', 'Out-of-Box Images', 'Packages', 'Task Sequences', 'Advanced Configurations', and 'Monitoring'. The 'Applications' folder is selected, and a context menu is visible on the right side of the screen.

The Windows taskbar at the bottom shows the system tray with the time 9:18 AM and date 2/14/2017.

MDT | ADDING APPLICATIONS

The screenshot shows the MDT-Server Deployment Workbench interface. The main window displays a table of applications with columns: Name, ShortName, Version, Publisher, Language, and CommandLine. A context menu is open over the 'Microsoft Office 2016 Standard' entry, with 'Properties' selected. The right-hand pane shows the 'Actions' menu, which is expanded to show options for the selected application.

Name	ShortName	Version	Publisher	Language	CommandLine
Microsoft Office 2016 Standard	Office	2016 Standard	Microsoft	EN-US	setup.exe
Microsoft Visio 2016 Standard	Visio		Microsoft	EN-US	setup.exe

Context Menu: Cut, Copy, Delete, Rename, **Properties**, Help

Actions Menu: Applications (expanded): New Application, New Folder, View, Refresh, Export List..., Help; Microsoft Office 2016 Stan... (expanded): Cut, Copy, Delete, Rename, Properties, Help

Opens the properties dialog box for the current selection.

MDT | ADDING APPLICATIONS

The screenshot shows the 'Microsoft Office 2016 Standard Properties' dialog box in the MDT-SERVER Deployment Workbench. The dialog is open to the 'Office Products' tab. The fields are filled with the following information:

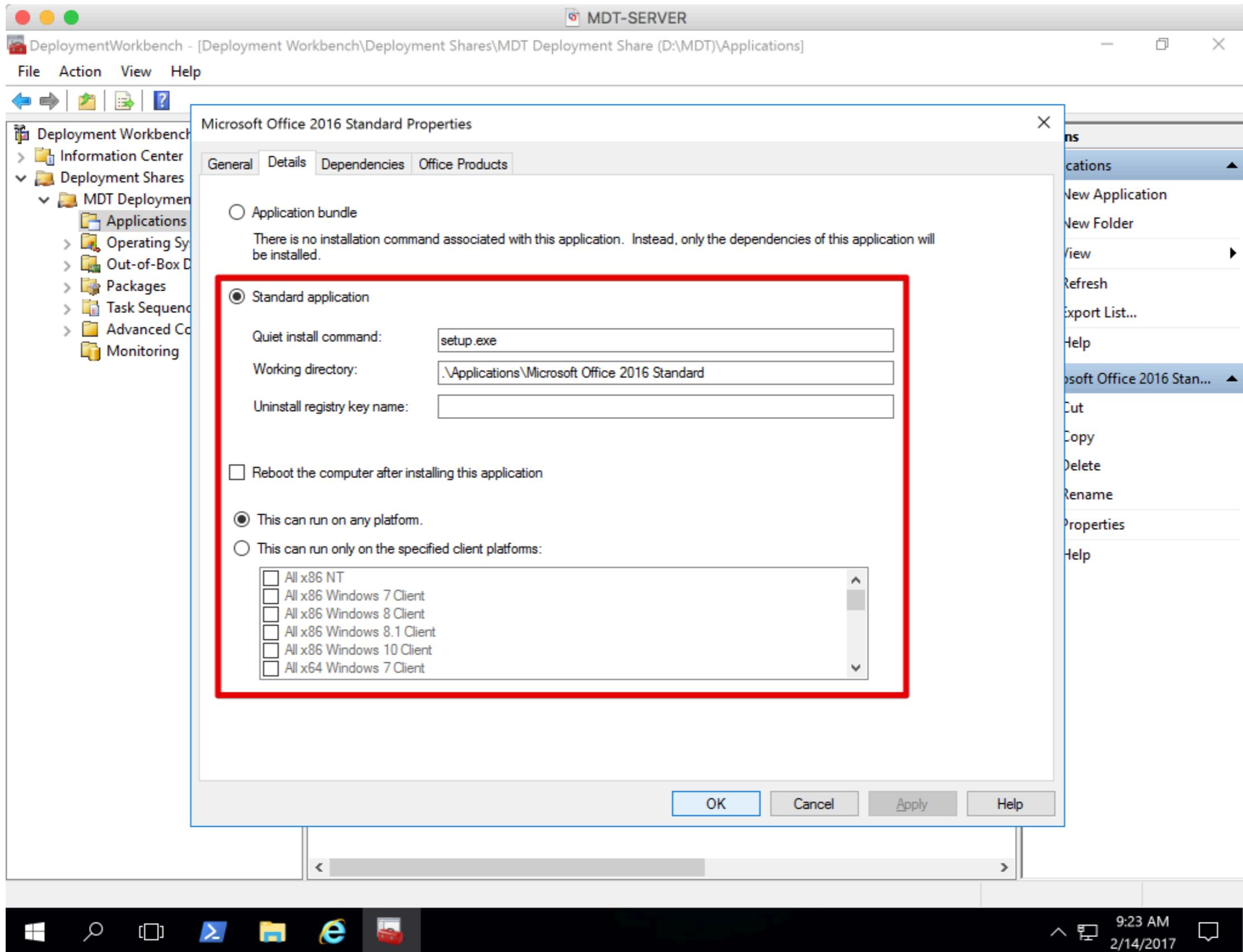
- Name: Microsoft Office 2016 Standard
- Comments: (empty)
- Display name: (empty)
- Short name: Office
- Version: 2016 Standard
- Publisher: Microsoft
- Language: EN-US
- Source directory: .\Applications\Microsoft Office 2016 Standard
- Application GUID: {cf5e5831-9f77-4546-baba-4a98ebdfe3d5}

At the bottom of the dialog, there are two checkboxes:

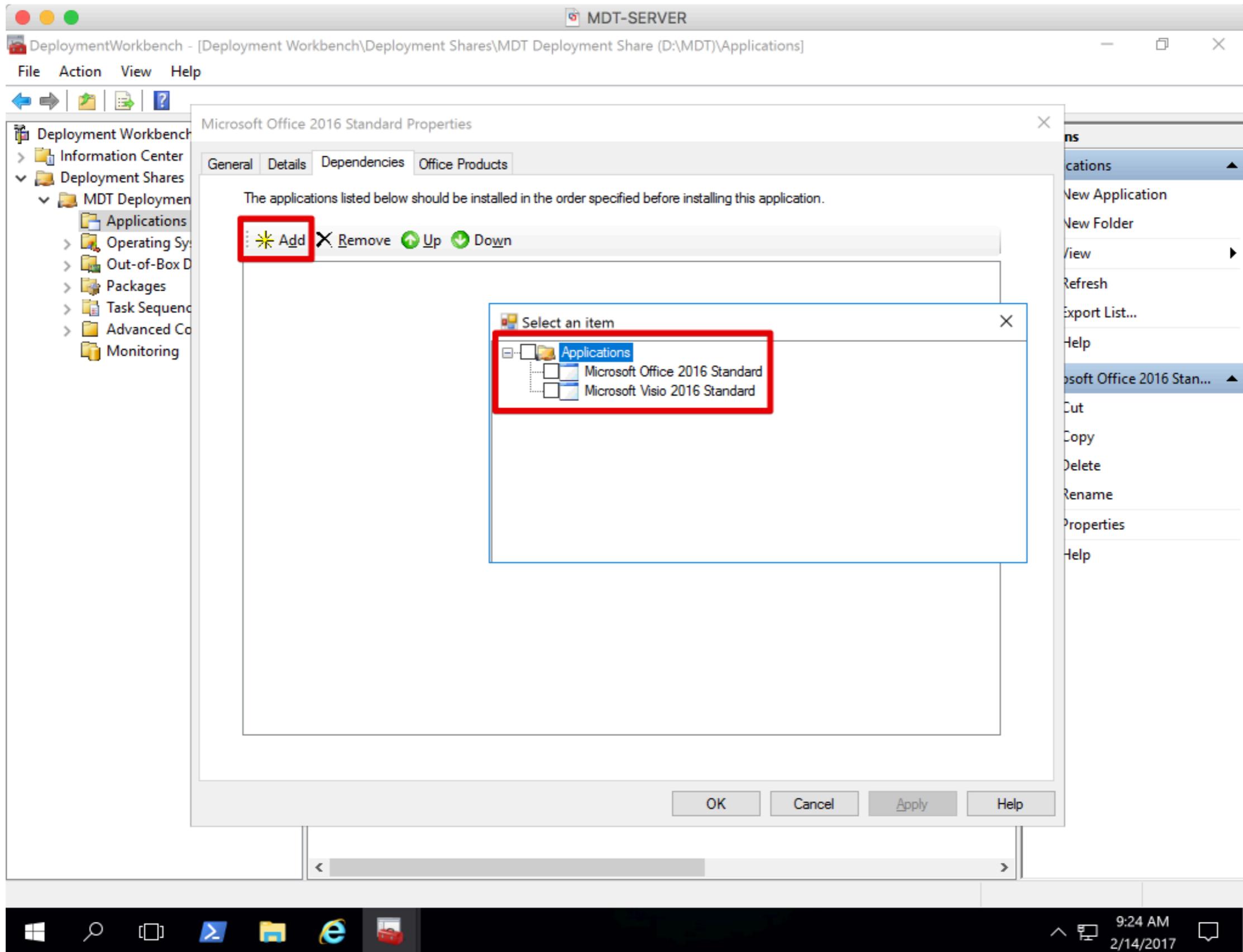
- Hide this application in the Deployment Wizard
- Enable this application

The 'Enable this application' checkbox is checked, and the entire checkbox area is highlighted with a red box. The dialog also has 'OK', 'Cancel', 'Apply', and 'Help' buttons at the bottom right.

MDT | ADDING APPLICATIONS



MDT | ADDING APPLICATIONS



MDT | ADDING APPLICATIONS

The screenshot shows the 'Microsoft Office 2016 Standard Properties' dialog box in the MDT-SERVER environment. The 'Office Products' tab is selected, and the 'Office product to install' dropdown is set to '<Let Office Setup decide>'. The 'Config.xml settings' section includes checkboxes for 'en-us' language, 'Product key', 'Customer name', 'Display level', 'Accept EULA', 'Cache only', and 'Always suppress reboot'. The 'Office Customization Tool...' button is highlighted with a red box.

DeploymentWorkbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (D:\MDT)\Applications]

File Action View Help

Deployment Workbench

- Information Center
- Deployment Shares
 - MDT Deployment
 - Applications
 - Operating System
 - Out-of-Box Data
 - Packages
 - Task Sequences
 - Advanced Configuration
 - Monitoring

Microsoft Office 2016 Standard Properties

General Details Dependencies Office Products

Office product to install: <Let Office Setup decide>

Config.xml settings

Office languages: en-us

Note: By default, Office Setup will install languages matching the OS. Select languages above to force installation of specific language packs.

Product key:
Warning: Product key is stored in clear text. Use an MSP configuration file to obfuscate the value.

Customer name:

Display level:

Accept EULA

Cache only

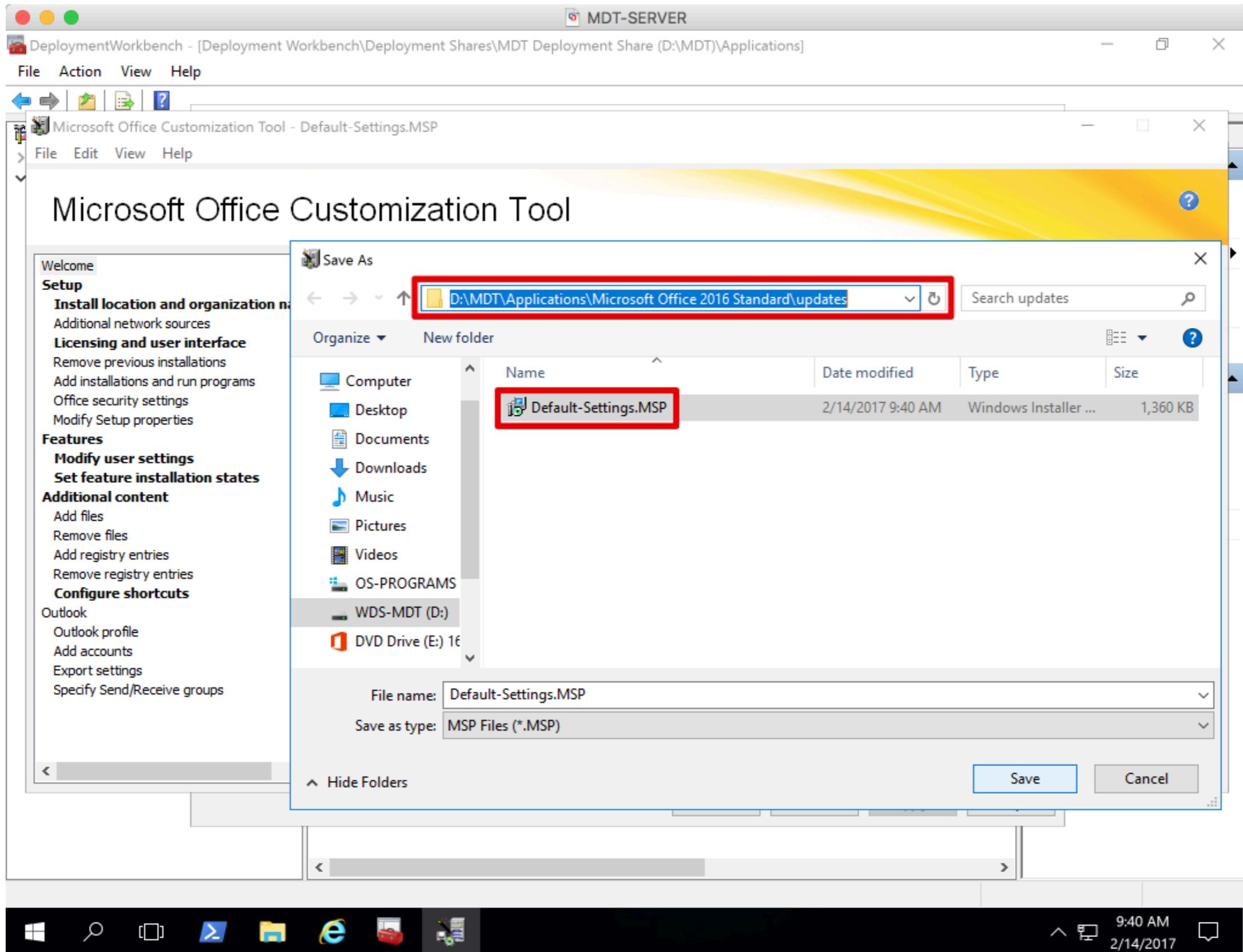
Always suppress reboot

Add... Edit Config.xml Office Customization Tool...

OK Cancel Apply Help

9:39 AM 2/14/2017

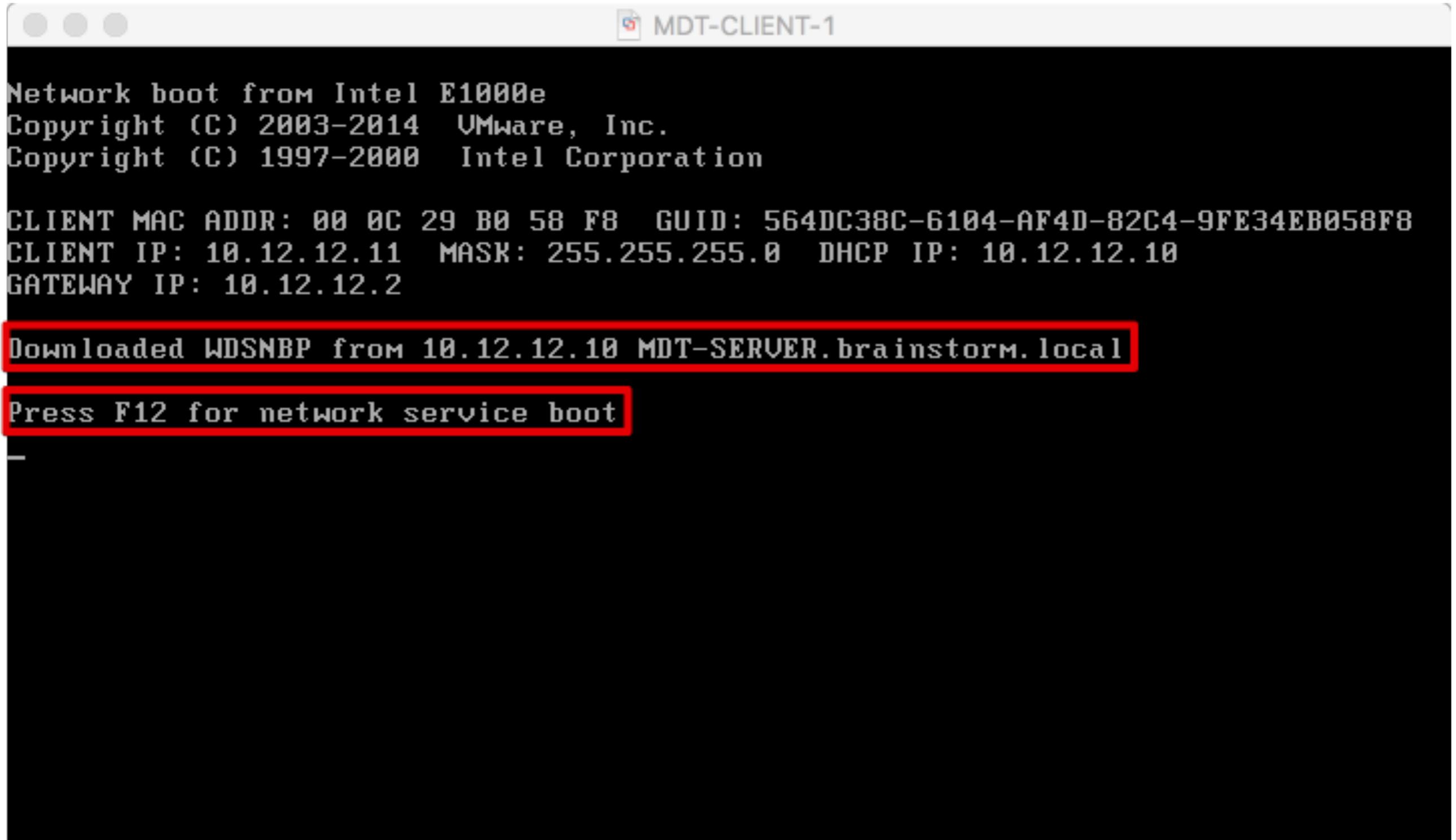
MDT | ADDING APPLICATIONS



RUNNING YOUR 1ST DEPLOYMENT **STEP #13**

WDS & MDT IN ACTION

WDS & MDT | RUNNING YOUR 1ST DEPLOYMENT



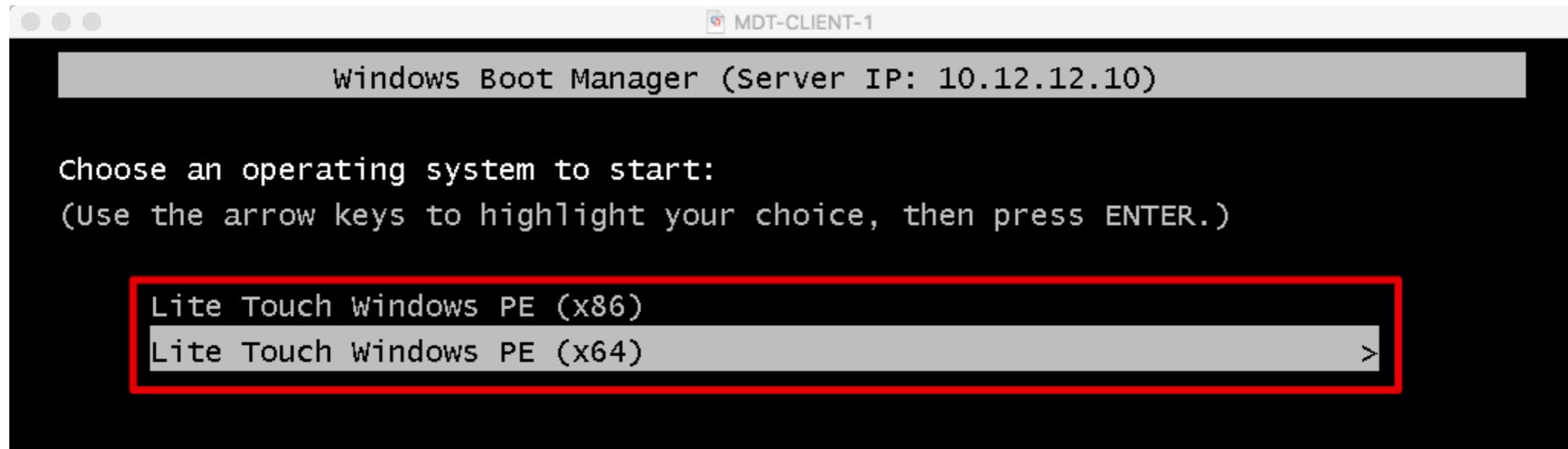
```
MDT-CLIENT-1
Network boot from Intel E1000e
Copyright (C) 2003-2014 VMware, Inc.
Copyright (C) 1997-2000 Intel Corporation

CLIENT MAC ADDR: 00 0C 29 B0 58 F8  GUID: 564DC38C-6104-AF4D-82C4-9FE34EB058F8
CLIENT IP: 10.12.12.11  MASK: 255.255.255.0  DHCP IP: 10.12.12.10
GATEWAY IP: 10.12.12.2

Downloaded WDSNBP from 10.12.12.10 MDT-SERVER.brainstorm.local

Press F12 for network service boot
```

WDS & MDT | RUNNING YOUR 1ST DEPLOYMENT



A screenshot of a Windows Boot Manager window titled "MDT-CLIENT-1". The window has a title bar with three standard macOS window control buttons (red, yellow, green) on the left. The main content area has a dark background with white text. At the top, a grey bar contains the text "Windows Boot Manager (Server IP: 10.12.12.10)". Below this, the text reads "Choose an operating system to start:" followed by "(Use the arrow keys to highlight your choice, then press ENTER.)". A list of two options is shown: "Lite Touch Windows PE (x86)" and "Lite Touch Windows PE (x64)". The second option is highlighted with a grey background and a white arrow pointing to the right. A red rectangular box is drawn around the entire list area.

```
MDT-CLIENT-1
Windows Boot Manager (Server IP: 10.12.12.10)

Choose an operating system to start:
(Use the arrow keys to highlight your choice, then press ENTER.)

Lite Touch Windows PE (x86)
Lite Touch Windows PE (x64) >
```

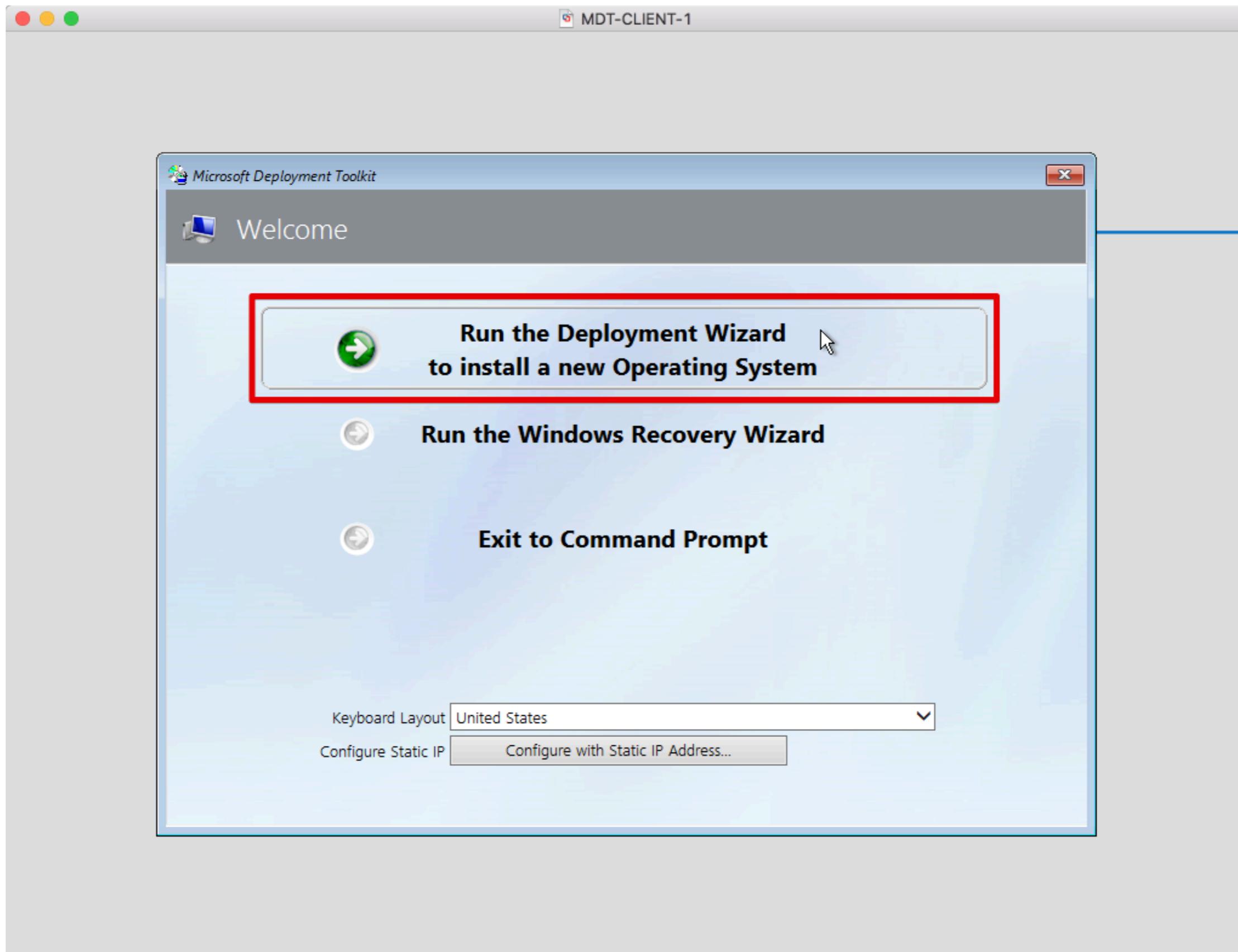


A screenshot showing the progress of file loading. The text "Loading files..." is displayed at the top. Below it is a horizontal progress bar with a grey fill. At the bottom, a red rectangular box highlights the text "IP: 10.12.12.10, File: \Boot\x64\Images\LiteTouchPE_x64.wim".

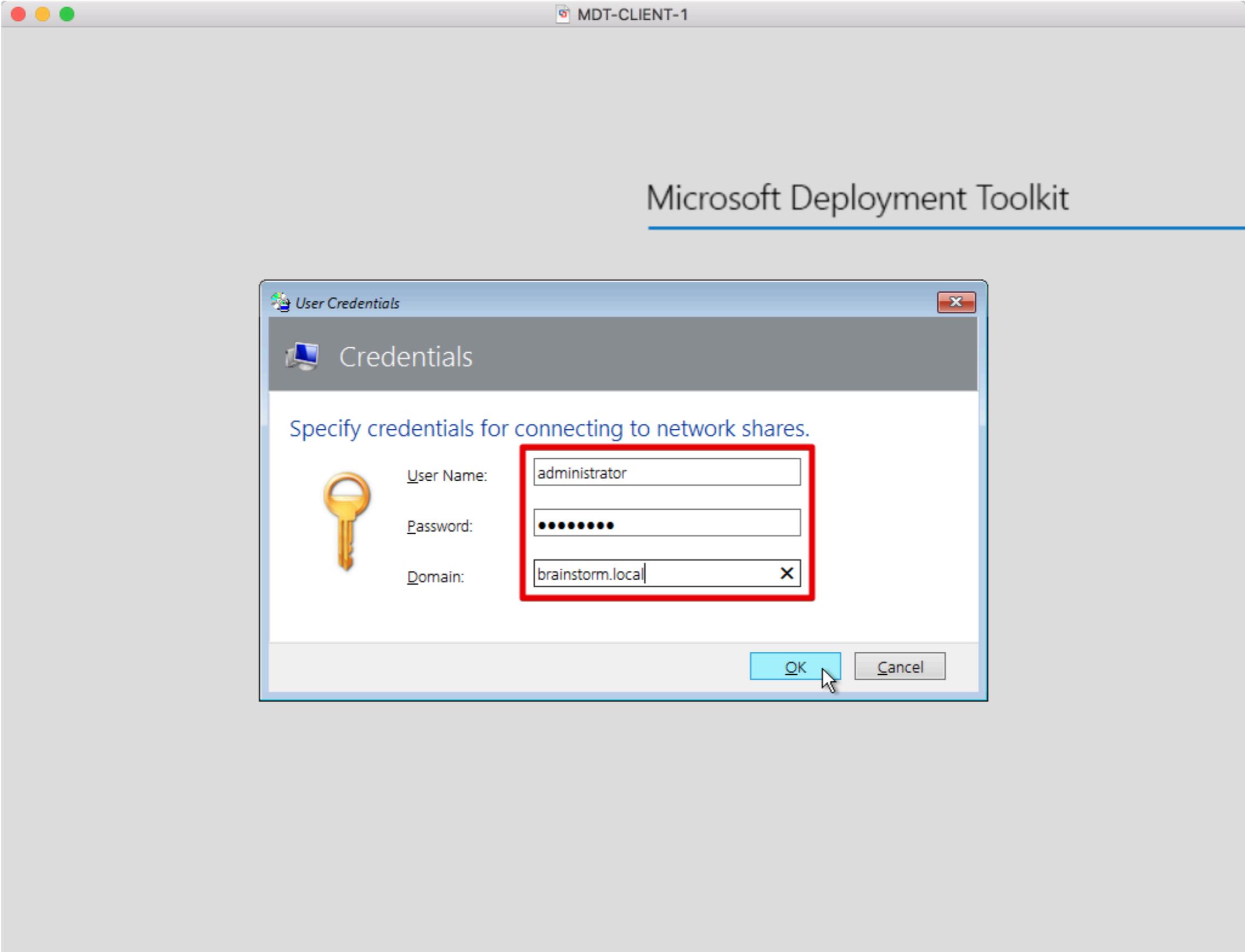
```
Loading files...

IP: 10.12.12.10, File: \Boot\x64\Images\LiteTouchPE_x64.wim
```

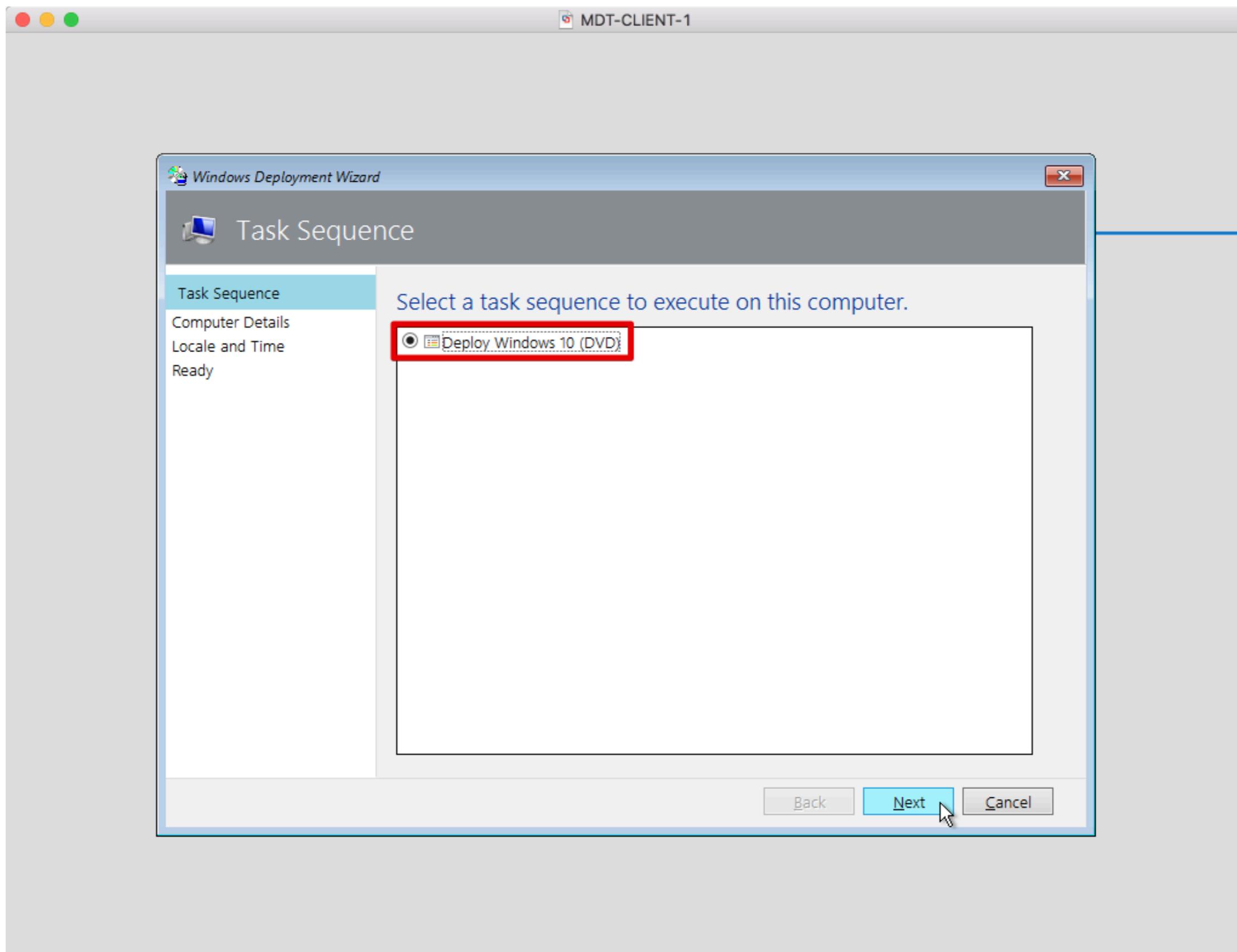
WDS & MDT | RUNNING YOUR 1ST DEPLOYMENT



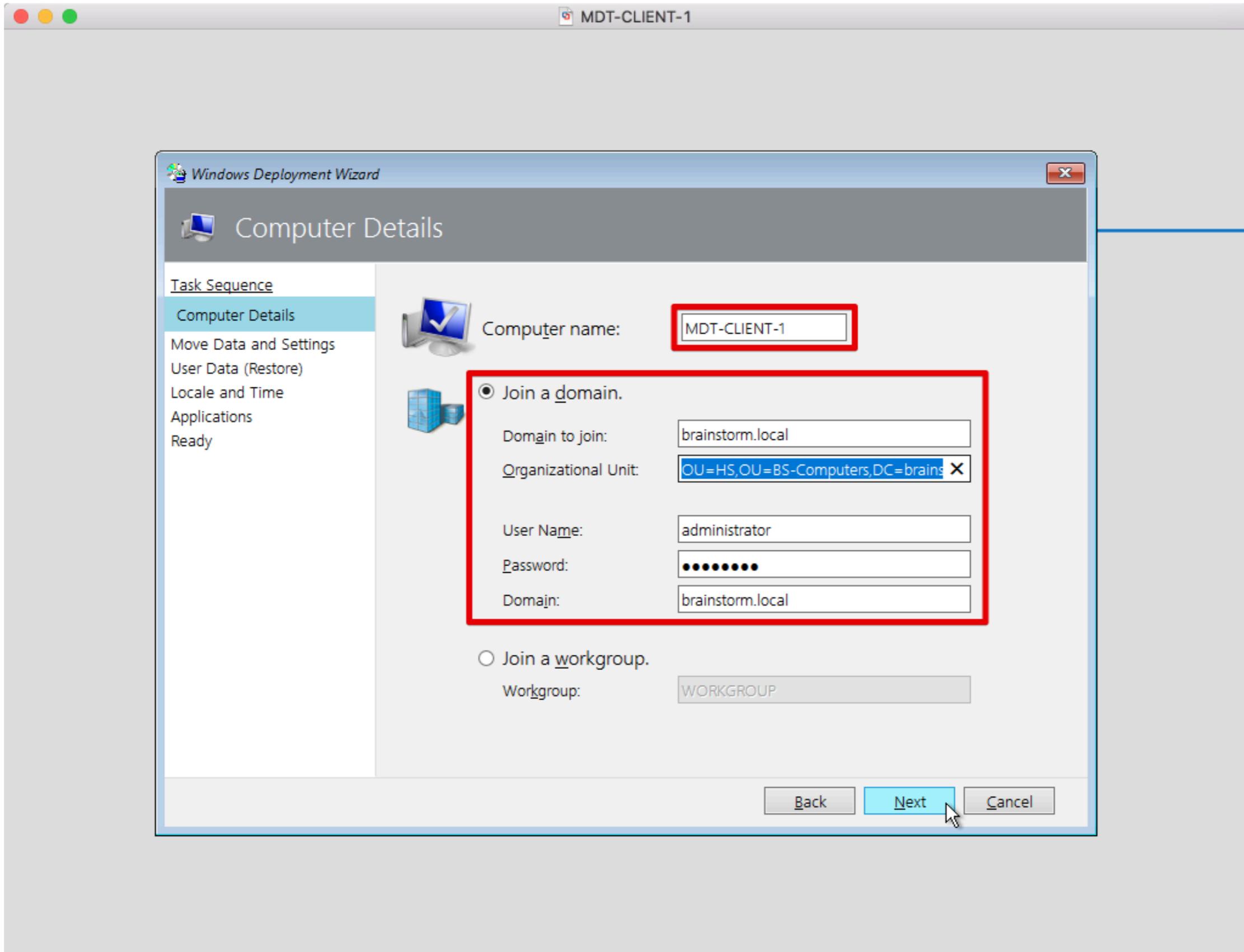
WDS & MDT | RUNNING YOUR 1ST DEPLOYMENT



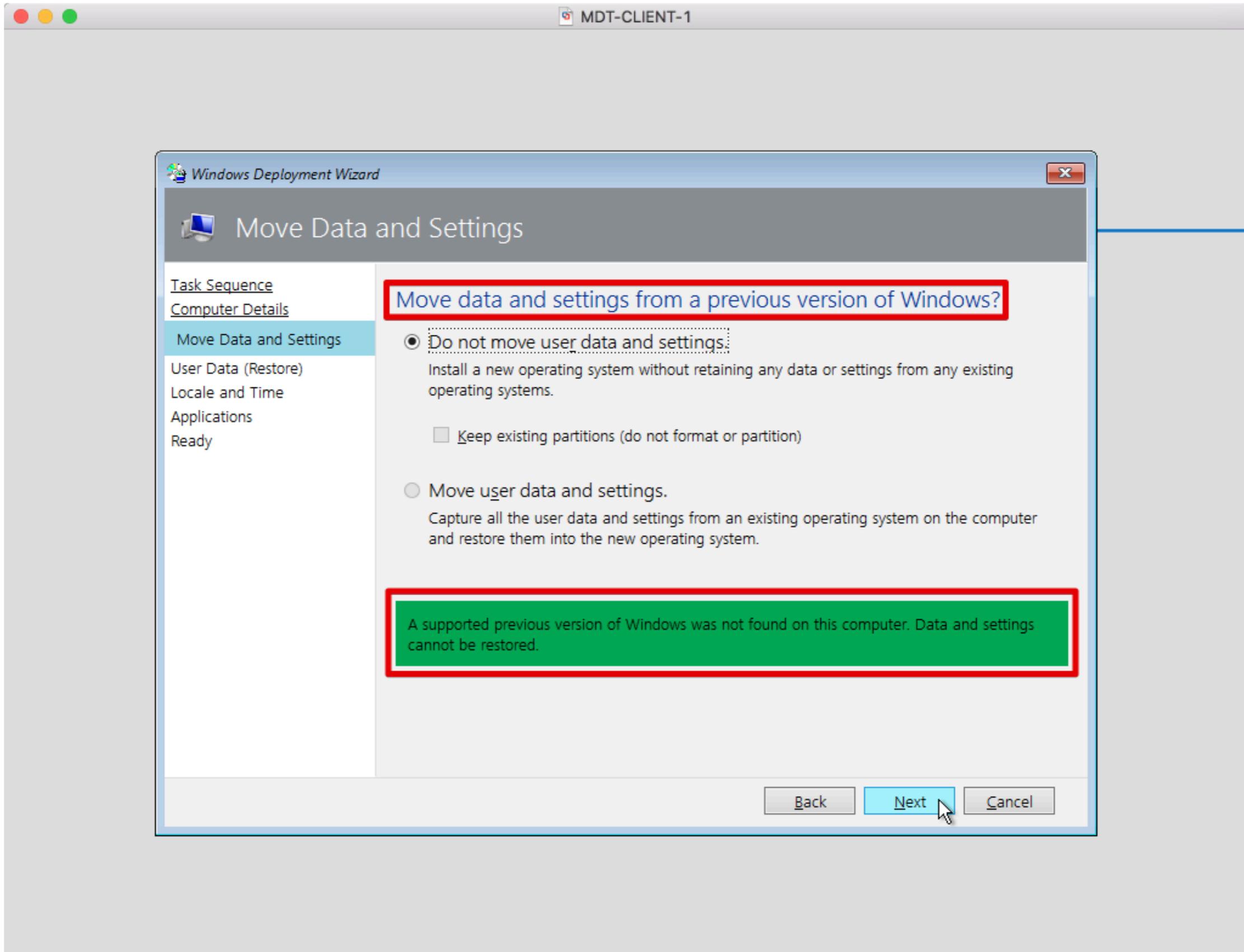
WDS & MDT | RUNNING YOUR 1ST DEPLOYMENT



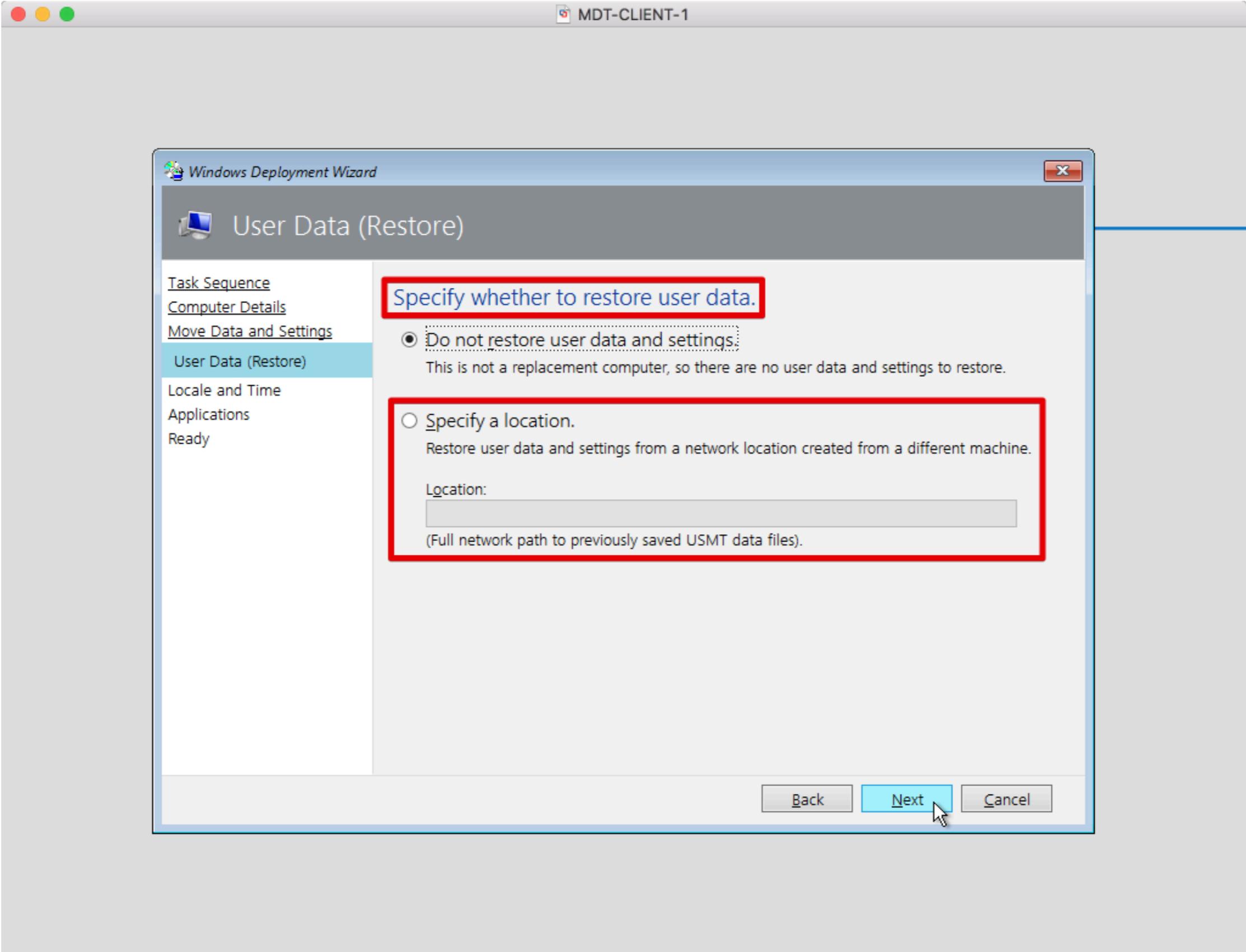
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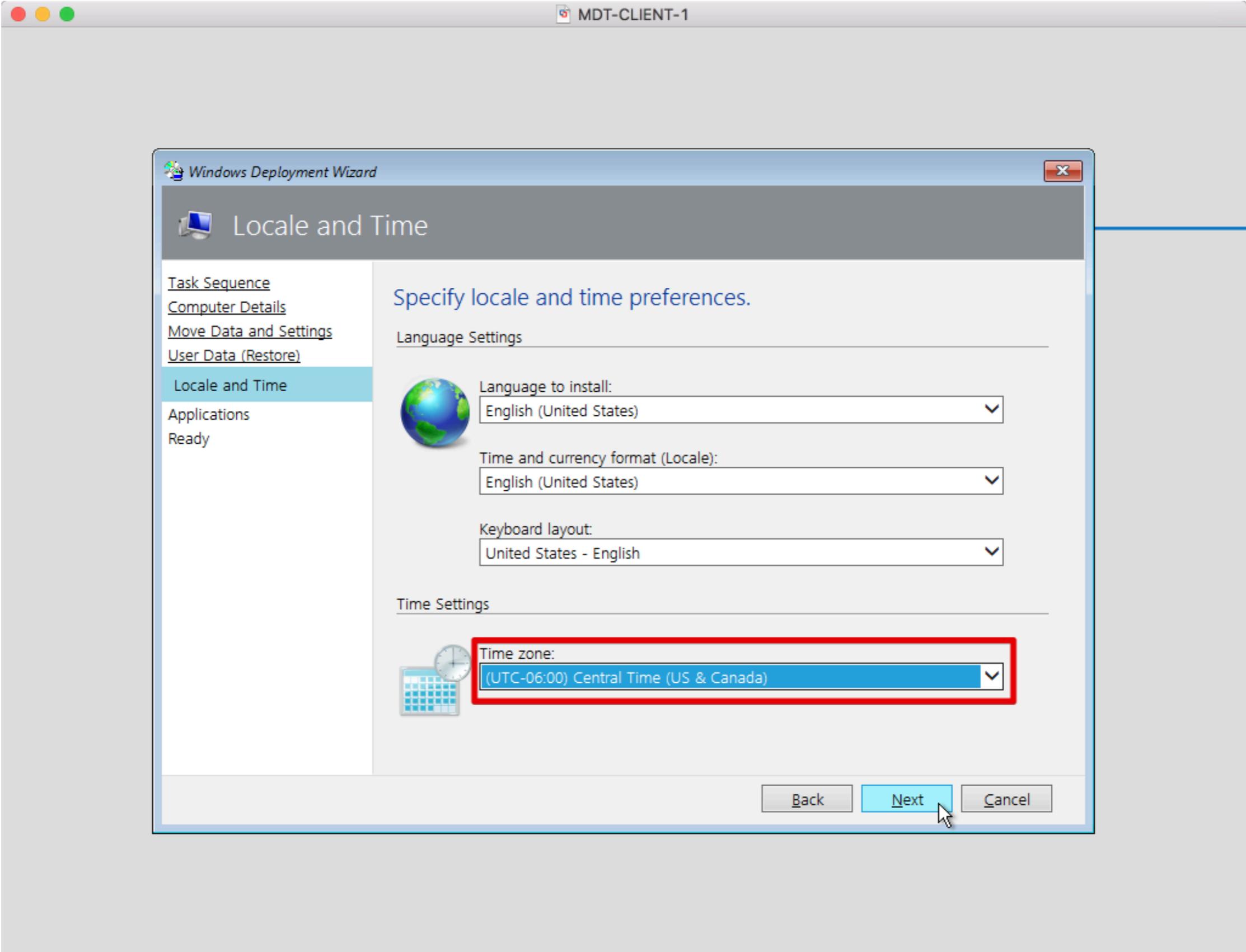
WDS & MDT | RUNNING YOUR 1ST DEPLOYMENT



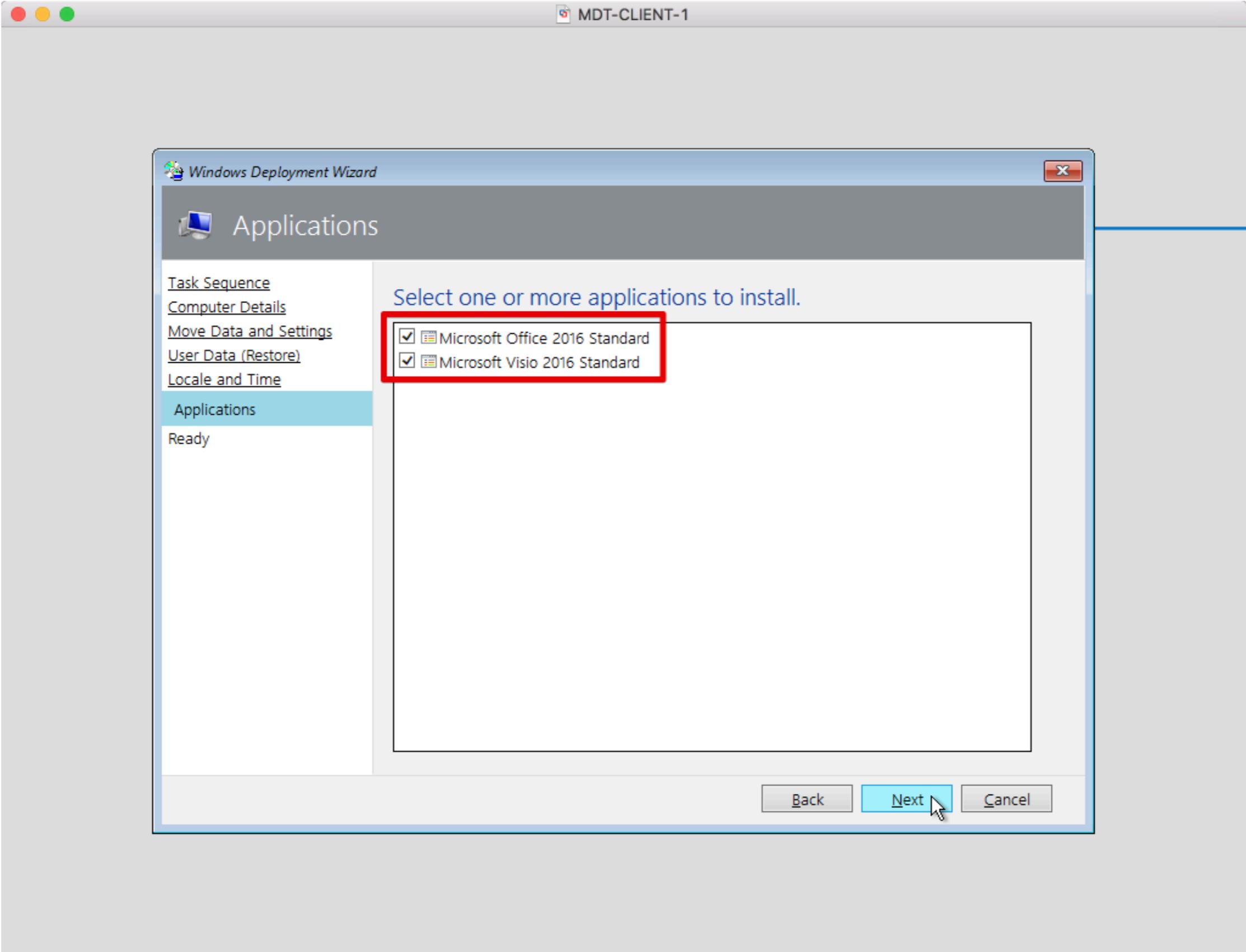
WDS & MDT | RUNNING YOUR 1ST DEPLOYMENT



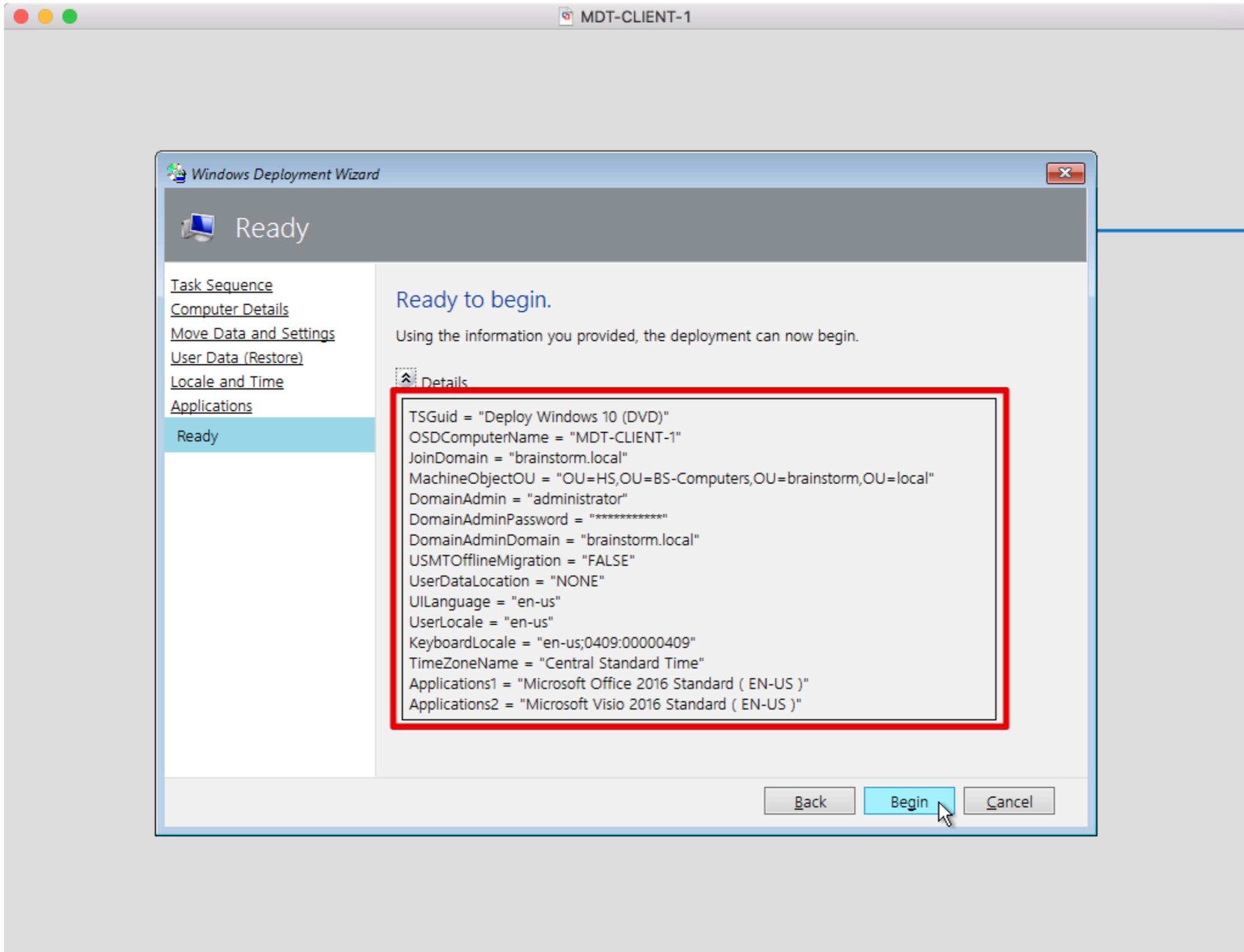
WDS & MDT | RUNNING YOUR 1ST DEPLOYMENT



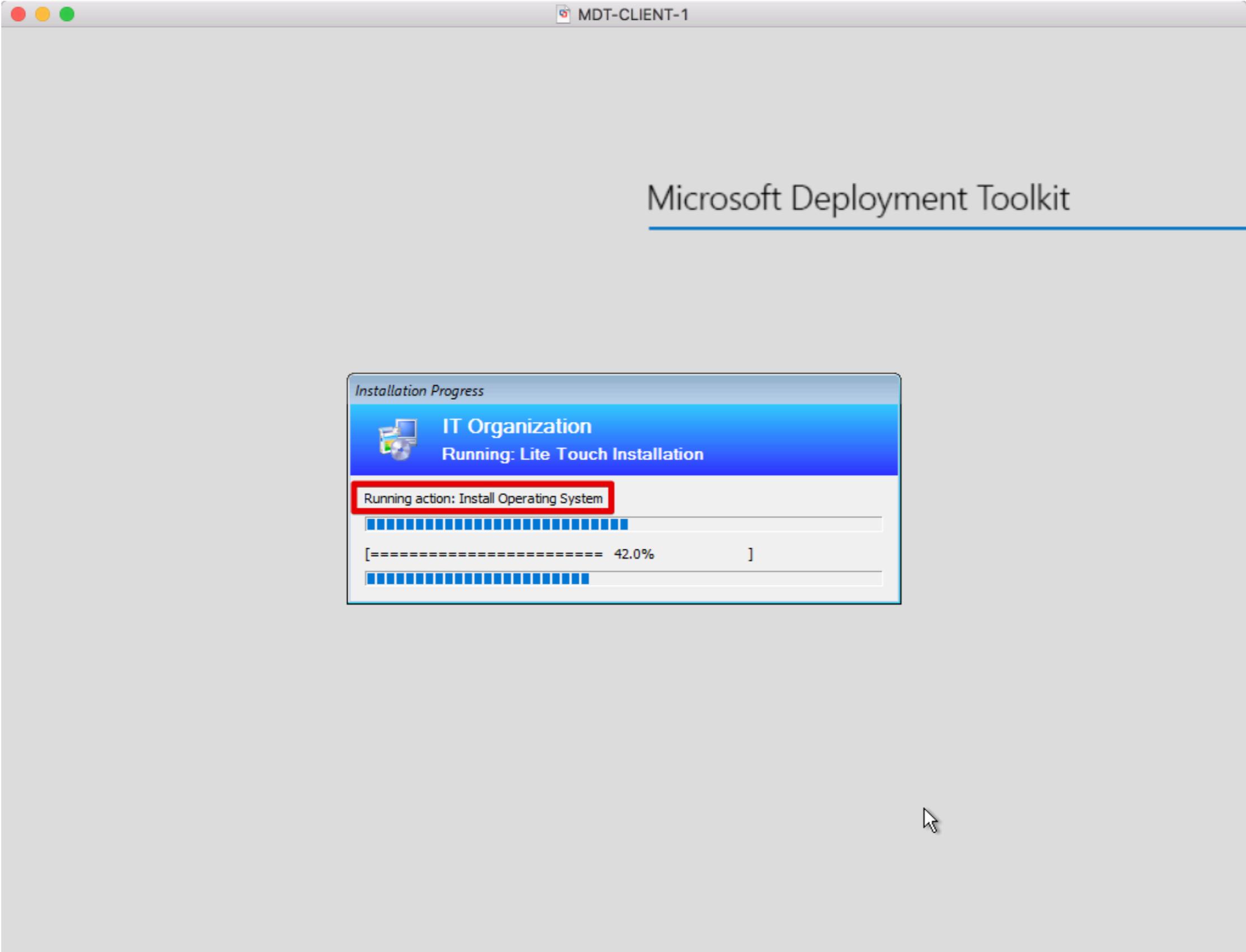
WDS & MDT | RUNNING YOUR 1ST DEPLOYMENT



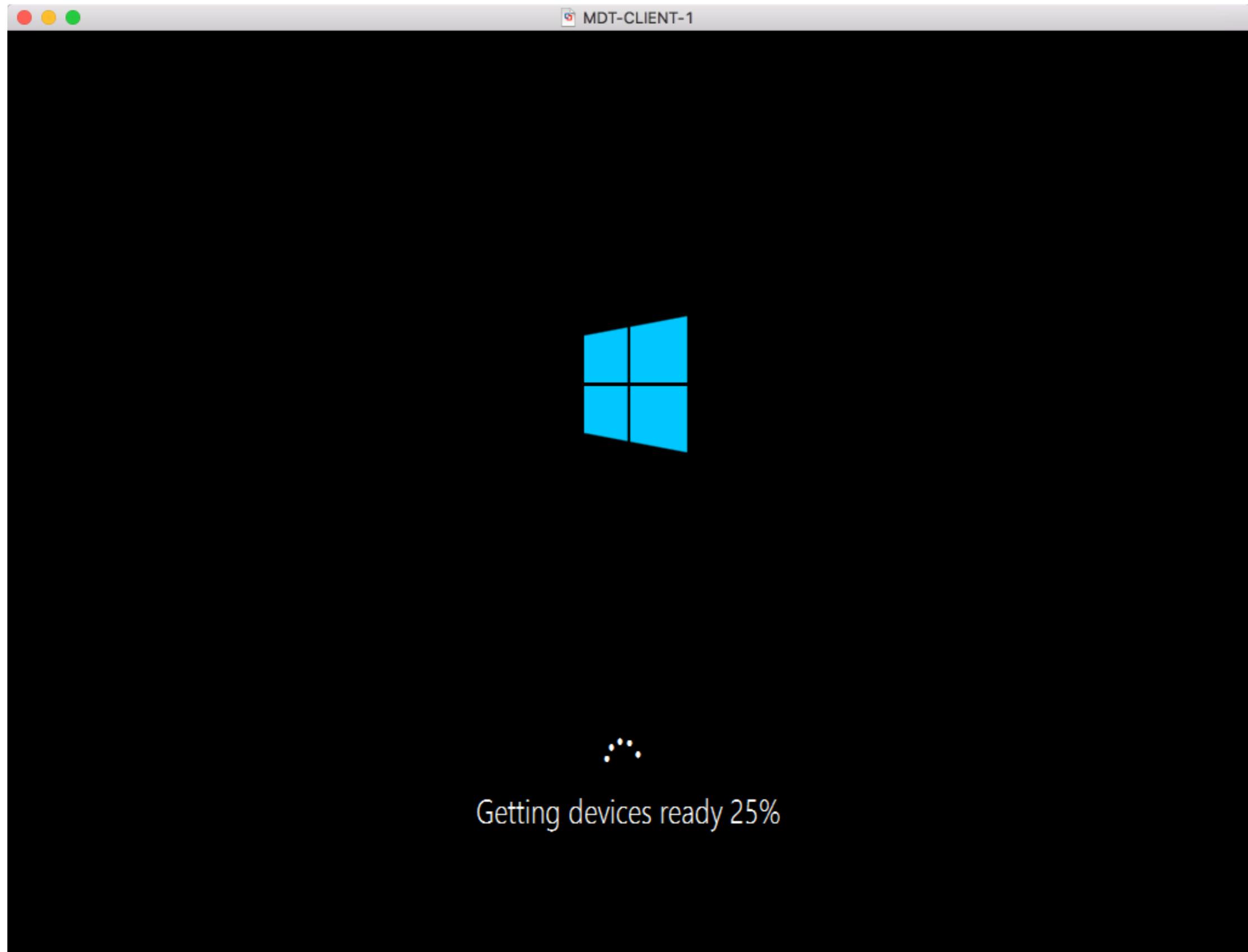
WDS & MDT | RUNNING YOUR 1ST DEPLOYMENT



WDS & MDT | RUNNING YOUR 1ST DEPLOYMENT



WDS & MDT | RUNNING YOUR 1ST DEPLOYMENT



WDS & MDT | RUNNING YOUR 1ST DEPLOYMENT

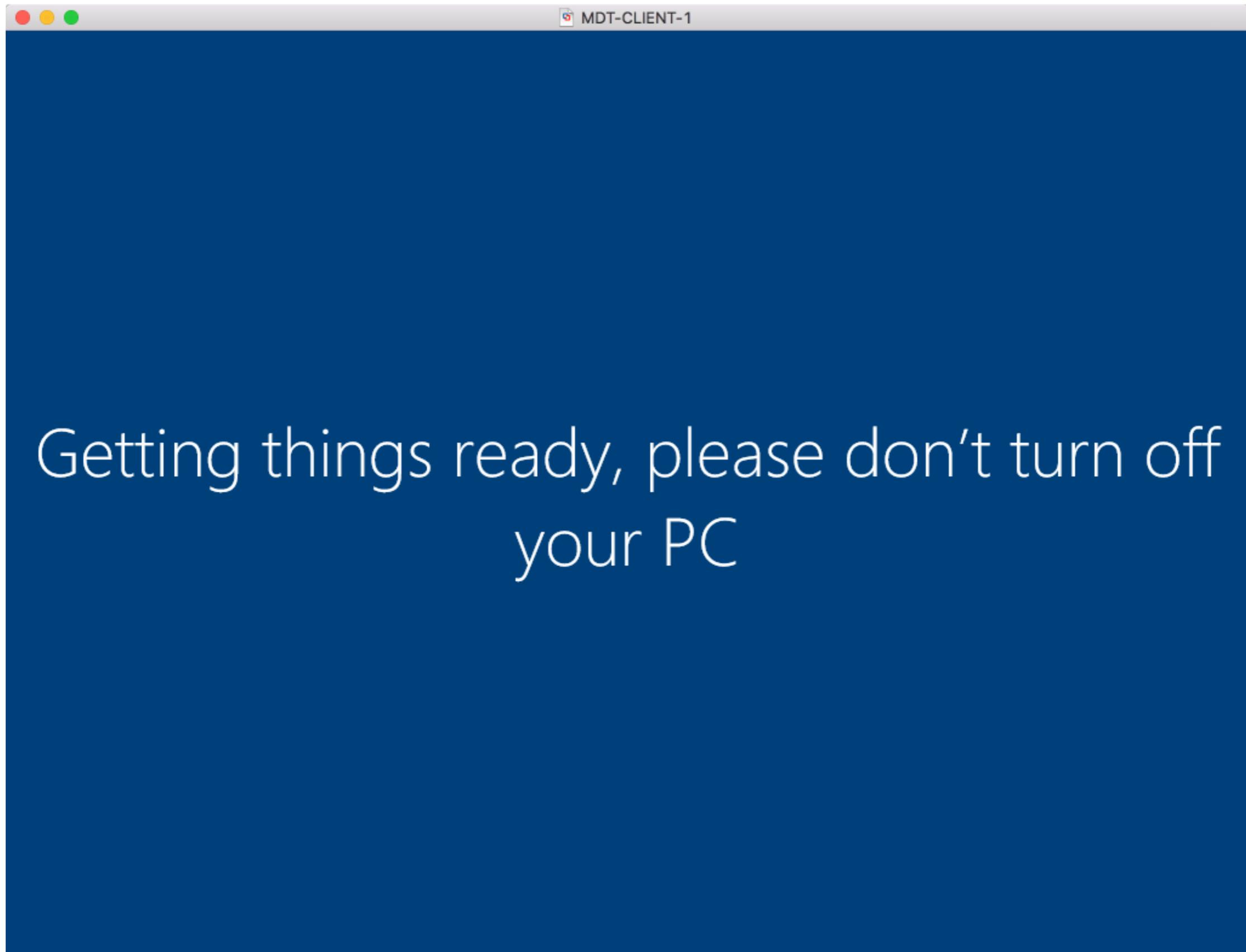
The screenshot shows the Deployment Workbench interface on an MDT-SERVER. The main window displays a table of deployment tasks. The task 'MDT-CLIENT-1' is highlighted, showing it is in the 'Running' state, performing the 'Install Operating System' step, which is 49% complete. The elapsed time is 00:00:23, and it is currently at step 45 of 89.

Name	Status	Step Name	Percent Compl...	Elapsed Time	Current Step	Actions
MDT-CLIENT-1	Running	Install Operating System	49	00:00:23	45	Monitoring

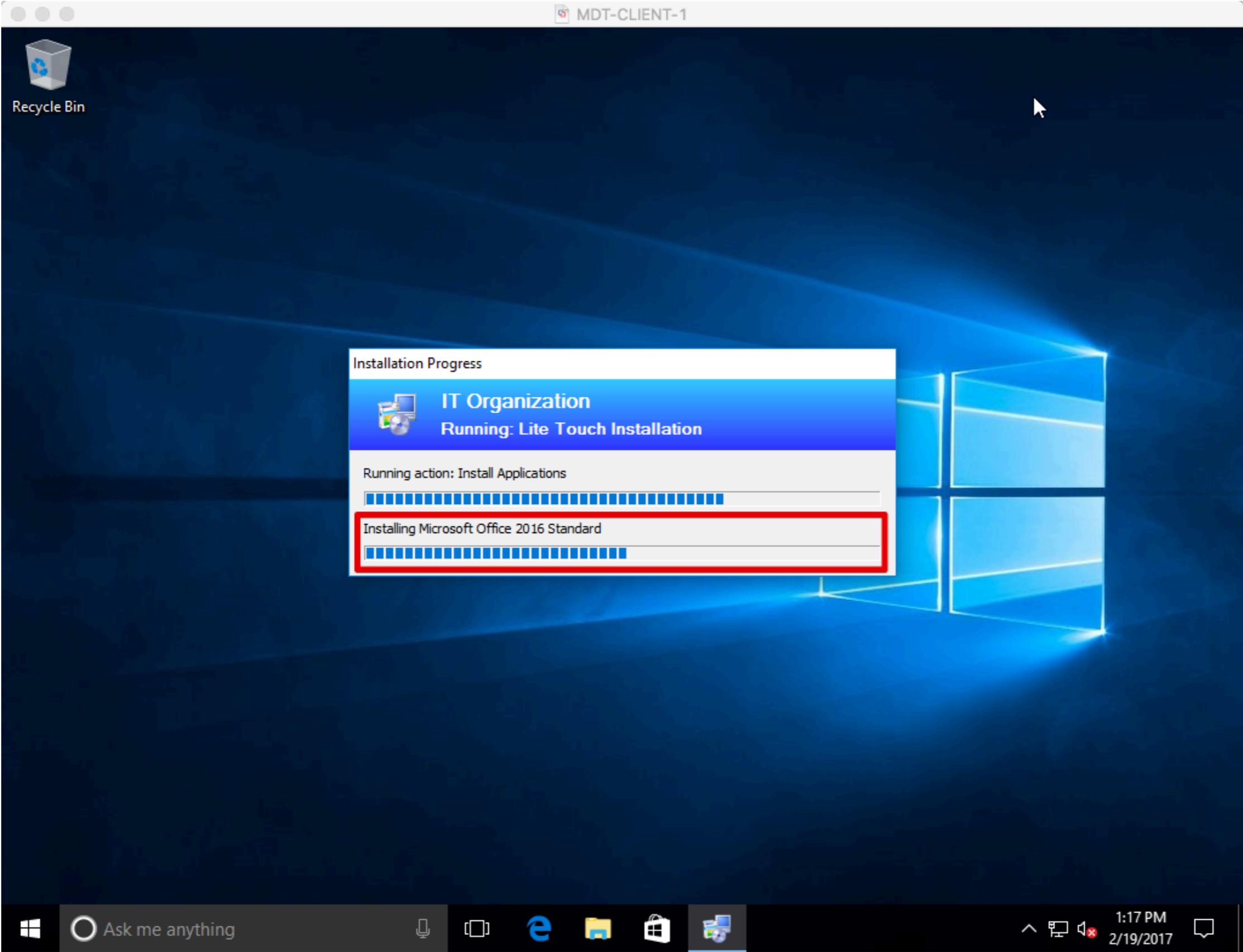
The 'MDT-CLIENT-1 Properties' dialog box is open, showing the following details:

- Identity
- ID: 5
- Computer Name: MDT-CLIENT-1
- Deployment status: Running
- Step: Install Operating System
- Progress:  Step 45 of 89
- Start: 2/19/2017 7:10:04 PM
- End:
- Elapsed: 00:01:05
- Errors: 0
- Warnings: 0
- Remote Desktop button
- Automatically refresh this information every 10 seconds
- Refresh Now button

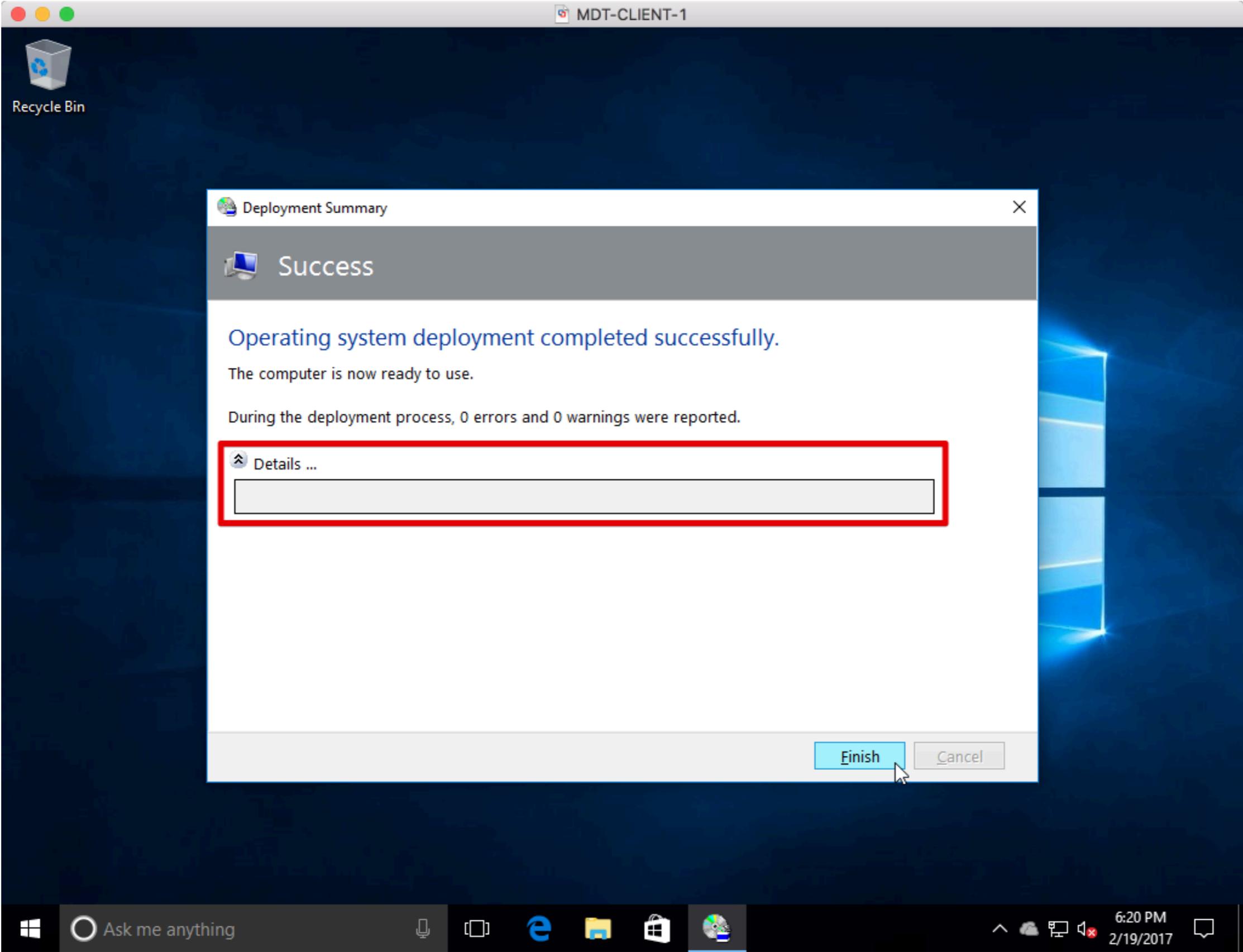
The Windows taskbar at the bottom shows the time as 1:11 PM on 2/19/2017.



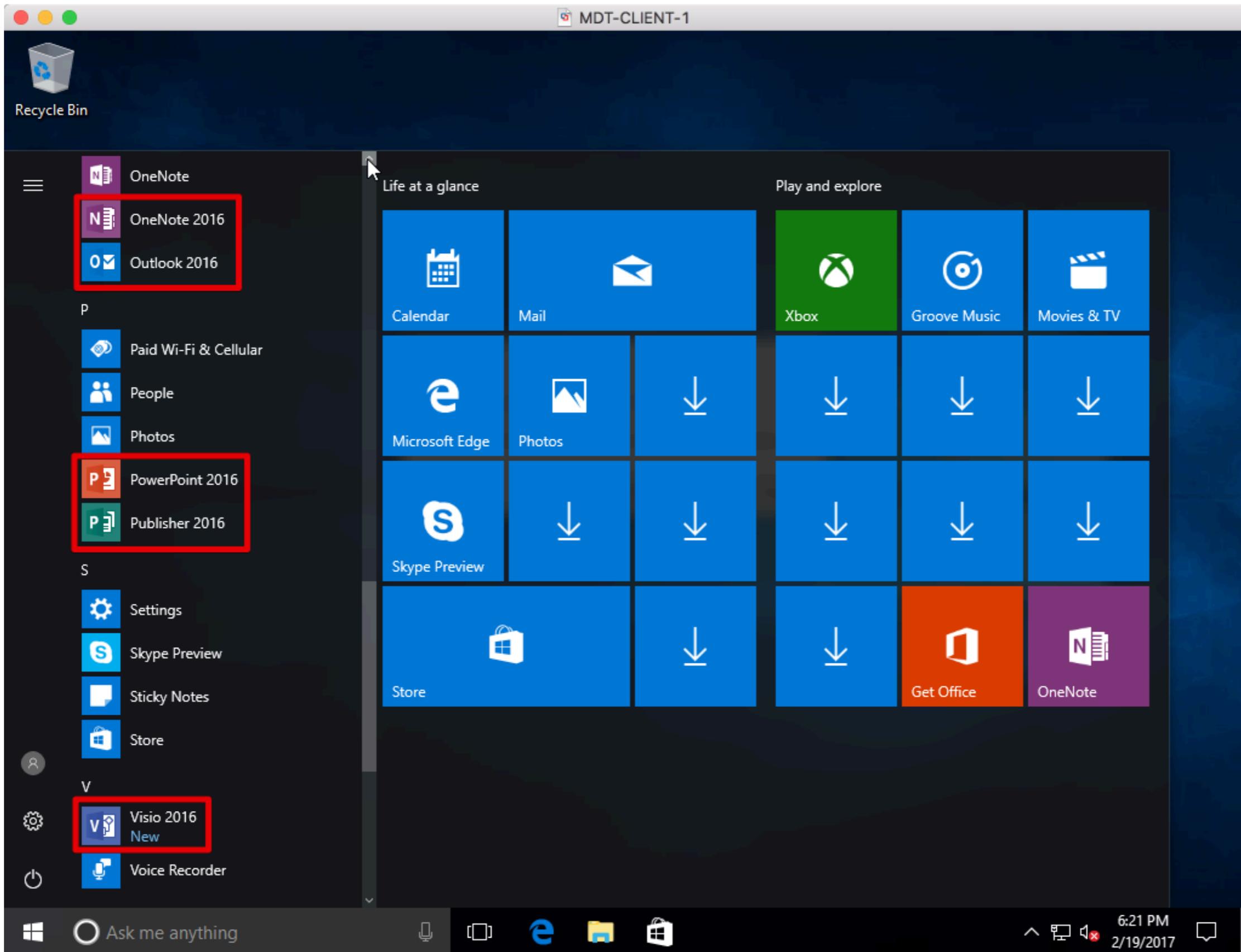
WDS & MDT | RUNNING YOUR 1ST DEPLOYMENT



WDS & MDT | RUNNING YOUR 1ST DEPLOYMENT



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CAPTURING IMAGES

MICROSOFT DEPLOYMENT TOOLKIT (MDT)

MDT | CAPTURING IMAGES

The screenshot shows the MDT-SERVER Deployment Workbench interface. The window title is "MDT-SERVER" and the address bar shows the path "DeploymentWorkbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (D:\MDT)\Task Sequences]". The interface includes a menu bar (File, Action, View, Help), a navigation pane on the left, a main content area with a table of task sequences, and an Actions pane on the right.

The navigation pane shows the following structure:

- Deployment Workbench
 - Information Center
 - Deployment Shares
 - MDT Deployment Share (D:\MDT)
 - Applications
 - Operating Systems
 - Out-of-Box Drivers
 - Packages
 - Task Sequences
 - Advanced Co
 - Monitoring

The main content area displays a table with the following data:

Name	ID	Version
Deploy Windows 10 (DVD)	1064-DVD	1.0

The Actions pane on the right shows the following options:

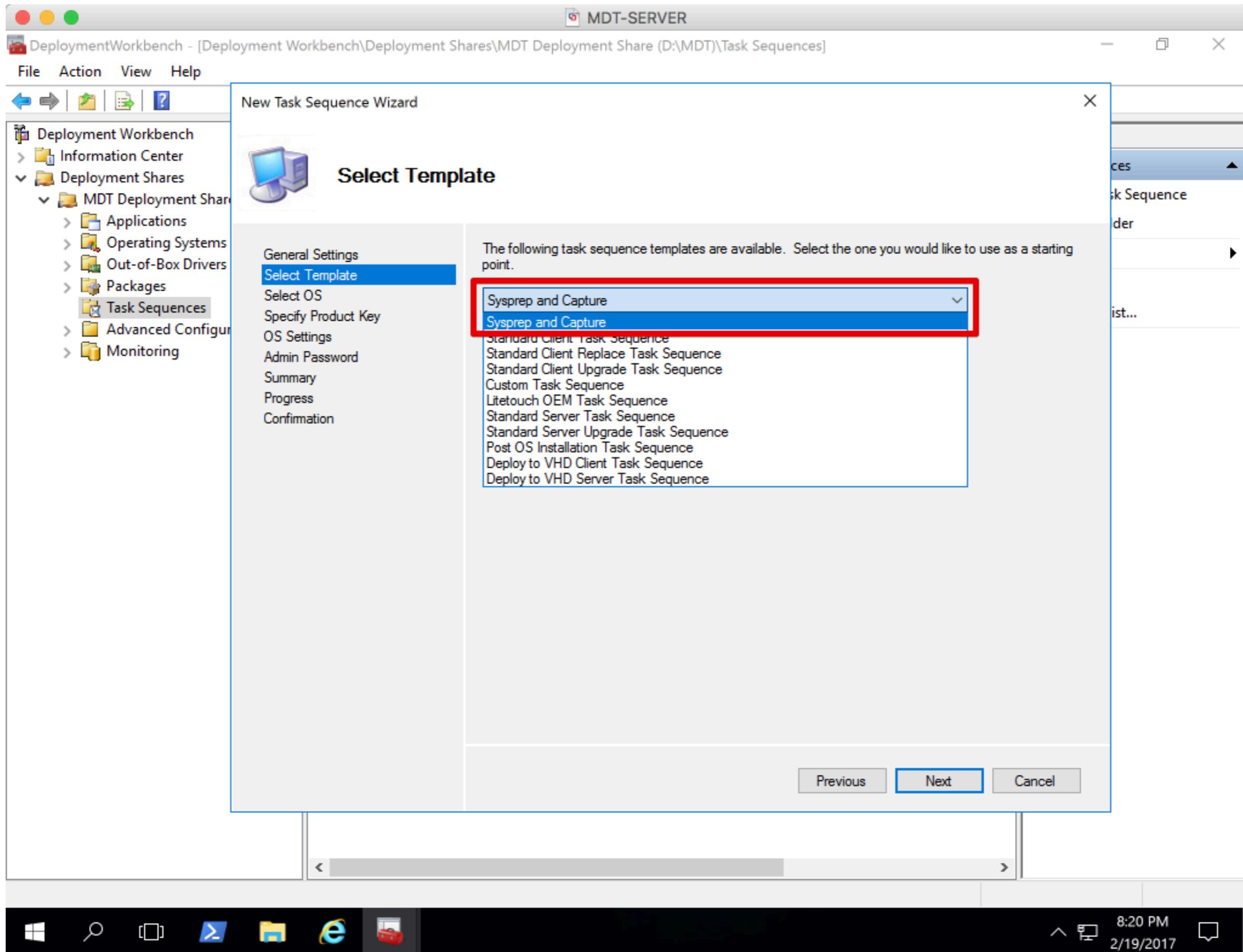
- Task Sequences
 - New Task Sequence
 - New Folder
- View
- Refresh
- Export List...
- Help

A context menu is open over the "Task Sequences" folder in the navigation pane, showing the following options:

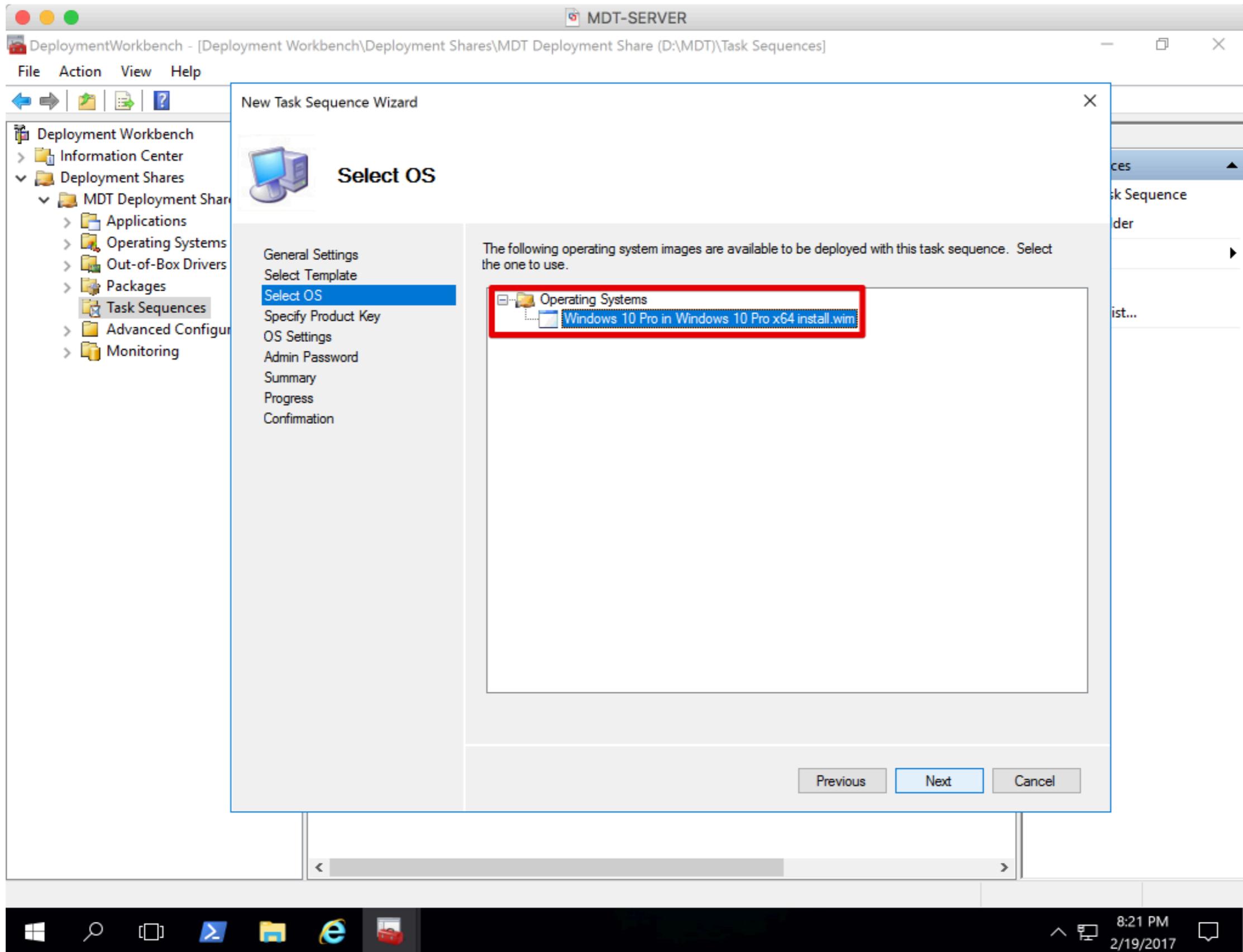
- New Task Sequence
- New Folder
- View
- Refresh
- Export List...
- Help

The status bar at the bottom of the window displays the text "Create a new task sequence". The Windows taskbar at the bottom shows the time as 8:18 PM on 2/19/2017.

MDT | CAPTURING IMAGES



MDT | CAPTURING IMAGES



MDT | CAPTURING IMAGES

The screenshot shows the 'New Task Sequence Wizard' in the MDT-SERVER environment. The wizard is currently on the 'Specify Product Key' step. The left sidebar shows the navigation pane with 'Task Sequences' selected. The main area contains three radio button options:

- Do 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 Microsoft activation service on the internet. This is only supported for Windows 7 and later operating systems when using volume license media.
MAK Product Key: _____
- Specify the product key for this operating system.
Specify a retail product key. (Note that retail keys can only be used to activate a single machine.)
Product Key: _____

At the bottom of the wizard, there are three buttons: 'Previous', 'Next', and 'Cancel'. The 'Next' button is highlighted in blue. The entire 'Do not specify a product key at this time' option is enclosed in a red rectangular box.



8:22 PM
2/19/2017



MDT | CAPTURING IMAGES

The screenshot shows the 'New Task Sequence Wizard' window in the MDT-SERVER environment. The window title is 'MDT-SERVER' and the address bar shows 'DeploymentWorkbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (D:\MDT)\Task Sequences]'. The left sidebar contains a tree view with 'Task Sequences' selected. The main area is titled 'OS Settings' and contains a list of steps: 'General Settings', 'Select Template', 'Select OS', 'Specify Product Key', 'OS Settings' (highlighted), 'Admin Password', 'Summary', 'Progress', and 'Confirmation'. The 'OS Settings' step is active, showing a text area with the instruction: '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.' Below this are three input fields: 'Full Name:' (empty), 'Organization:' (containing 'Source One Technology, Inc.'), and 'Internet Explorer Home Page:' (containing 'about:blank'). A red rectangle highlights these three input fields. At the bottom right, there are 'Previous', 'Next', and 'Cancel' buttons. The Windows taskbar at the bottom shows the time as 8:23 PM on 2/19/2017.

MDT | CAPTURING IMAGES

The screenshot shows the 'New Task Sequence Wizard' window in the MDT-SERVER environment. The window title is 'MDT-SERVER' and the address bar shows 'DeploymentWorkbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (D:\MDT)\Task Sequences]'. The left sidebar contains a tree view with 'Task Sequences' selected. The main area is titled 'Admin Password' and contains the following text: 'Specify the local Administrator password for this task sequence.' Below this text are two radio buttons: 'Use the specified local Administrator password.' (unselected) and 'Do not specify an Administrator password at this time.' (selected). The selected option is highlighted with a red rectangular box. Below the selected option is a note: 'The local Administrator password will be provided during the deployment of this task sequence, so it is not needed as part of the task sequence definition.' At the bottom of the wizard are three buttons: 'Previous', 'Next', and 'Cancel'. The Windows taskbar at the bottom shows the time as 8:24 PM on 2/19/2017.

DeploymentWorkbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (D:\MDT)\Task Sequences]

File Action View Help

Deployment Workbench

- Information Center
- Deployment Shares
 - MDT Deployment Share
 - Applications
 - Operating Systems
 - Out-of-Box Drivers
 - Packages
 - Task Sequences**
 - Advanced Configuration
 - Monitoring

New Task Sequence Wizard

Admin Password

General Settings
Select Template
Select OS
Specify Product Key
OS Settings
Admin Password
Summary
Progress
Confirmation

Specify the local Administrator password for this task sequence.

Use the specified local Administrator password.
Administrator Password:

Please confirm Administrator Password:

Do not specify an Administrator password at this time.
The local Administrator password will be provided during the deployment of this task sequence, so it is not needed as part of the task sequence definition.

Previous Next Cancel

8:24 PM
2/19/2017

MDT | CAPTURING IMAGES

MDT-SERVER

DeploymentWorkbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (D:\MDT)\Task Sequences]

File Action View Help

Deployment Workbench

- Information Center
- Deployment Shares
 - MDT Deployment Share
 - Applications
 - Operating Systems
 - Out-of-Box Drivers
 - Packages
 - Task Sequences
 - Advanced Configuration
 - Monitoring

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:

TaskSequenceID:	CAPTURE
TaskSequenceName:	Capture
IsUpgradeTS:	False
Template:	CaptureOnly.xml
OperatingSystem:	Windows 10 Pro in Windows 10 Pro x64 install.wim
FullName:	-
OrgName:	Source One Technology, Inc.
HomePage:	about:blank

Click next to execute the requested action.

Previous Next Cancel

8:25 PM
2/19/2017

MDT | CAPTURING IMAGES

The screenshot shows the MDT-SERVER Deployment Workbench interface. The main window is titled "New Task Sequence Wizard" and is currently on the "Confirmation" step. The left-hand navigation pane shows a tree view with "Task Sequences" selected. The main content area displays a confirmation message: "The process completed successfully." This message is enclosed in a red rectangular box. Below the message, a text box contains the following log output:

```
Performing the operation "import" on target "Task sequence".  
Beginning task sequence import  
Creating new item named Capture at DS001:\Task Sequences.  
Import processing finished.
```

At the bottom of the wizard, there are buttons for "Save Output...", "View Script", "Previous", "Finish", and "Cancel". The "Finish" button is highlighted in blue. The Windows taskbar at the bottom shows the time as 8:26 PM on 2/19/2017.

MDT | CAPTURING IMAGES

The screenshot displays the Deployment Workbench application window titled "MDT-SERVER". The address bar shows the path: "DeploymentWorkbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (D:\MDT)\Task Sequences]". The interface includes a menu bar (File, Action, View, Help), a toolbar, and a left-hand navigation pane. The navigation pane shows a tree view with "Deployment Shares" expanded to "MDT Deployment Share (D:\MDT)", and "Task Sequences" selected. The main pane displays a table of task sequences:

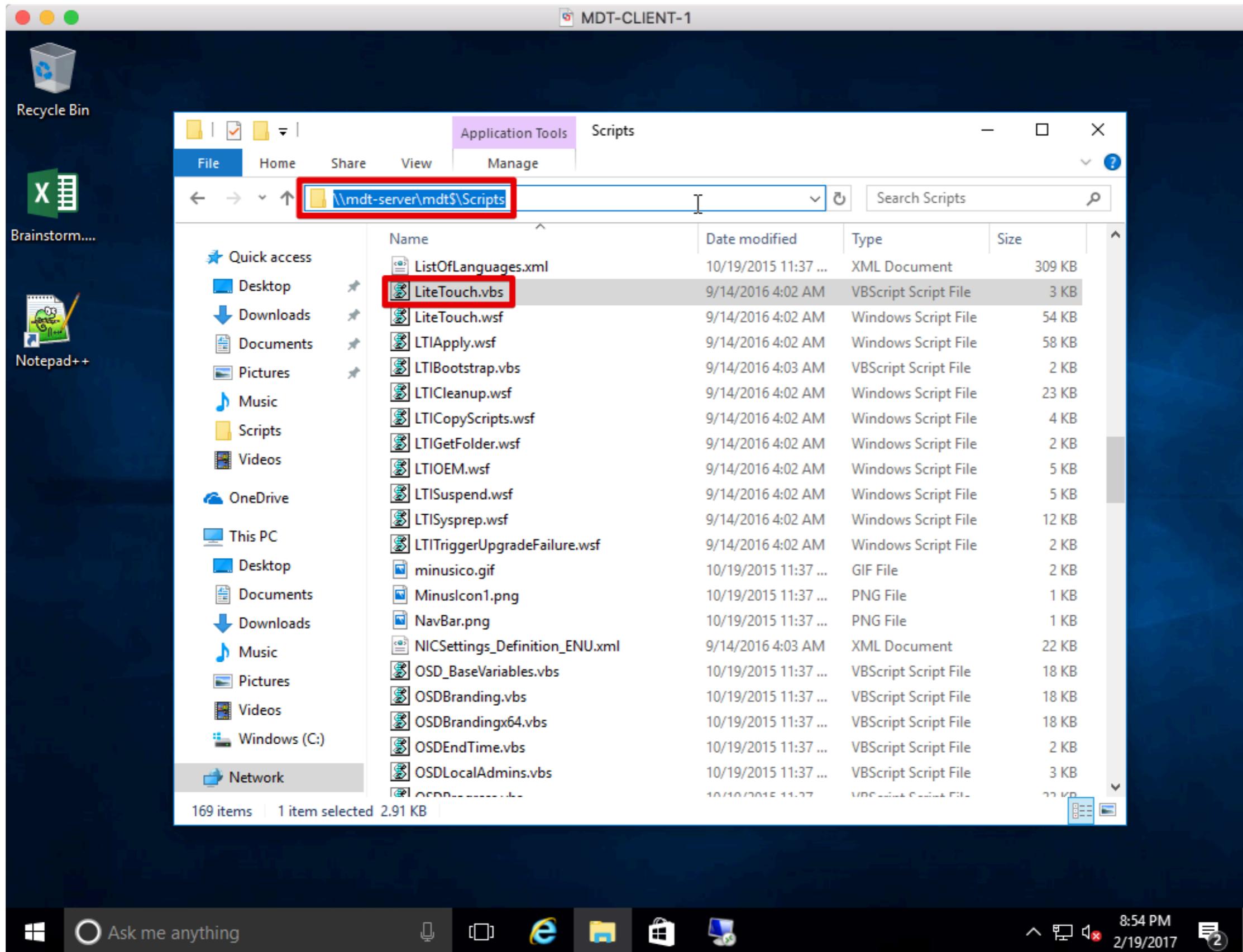
Name	ID	Version
Capture	CAPTURE	1.0
Deploy Windows 10 (DVD)	1064-DVD	1.0

The "Capture" task sequence is highlighted with a blue background and a red rectangular border. The right-hand pane shows the "Actions" menu, which is currently expanded to show options for the selected "Capture" task sequence, including Cut, Copy, Delete, Rename, Properties, and Help. The Windows taskbar at the bottom shows the time as 8:26 PM on 2/19/2017.

MDT | CAPTURING IMAGES

The screenshot shows a Windows 10 desktop environment with the title bar 'MDT-CLIENT-1'. A 'System Properties' dialog box is open, displaying the 'Computer Name/Domain Changes' tab. The 'Computer name' field contains 'MDT-CLIENT-1' and the 'Full computer name' field contains 'MDT-CLIENT-1.brainstorm.local'. Under the 'Member of' section, the 'Workgroup' radio button is selected, and the text 'WORKGROUP' is entered in the adjacent field. A red rectangular box highlights the 'Workgroup' radio button and the text field. The 'OK' button is highlighted with a mouse cursor. In the background, the 'System' control panel window is visible, showing system information such as 'Intel(R) Core(TM) i7-4960HQ CPU @ 2.60GHz 2.59 GHz', '2.00 GB' RAM, and '64-bit Operating System, x64-based processor'. The taskbar at the bottom includes the Start button, 'Ask me anything' search bar, and several application icons. The system tray shows the time as 8:51 PM on 2/19/2017.

MDT | CAPTURING IMAGES



TROUBLESHOOTING

MICROSOFT DEPLOYMENT TOOLKIT (MDT)

NEWCOMER GOTCHAS

- ▶ Client PXE boot fails

Verify BIOS Settings, DHCP, or WDS services

- ▶ WinPE/MDT cannot connect to deployment share

Verify user account, MDT deployment share, BootStrap.ini configuration

- ▶ WinPE/MDT deploy fails

Try deleting and re-creating Task Sequence and re-run

- ▶ MDT Deployment Share Logs Folder (CMtrace.exe)

- ▶ Tip for advancing your skills

Start with the basics and test deployments incrementally as changes are made

SCCM TOOLKIT | DOWNLOAD

MDT-SERVER

<https://www.microsoft.com/en-us/download/details.aspx?id=50012>

Microsoft Store Products Support Search Microsoft.com Sign in

Download Center Windows Office Web browsers Developer tools Xbox Windows Phone

The Surface Pro 4 you've been wishing for—at a new lower price.

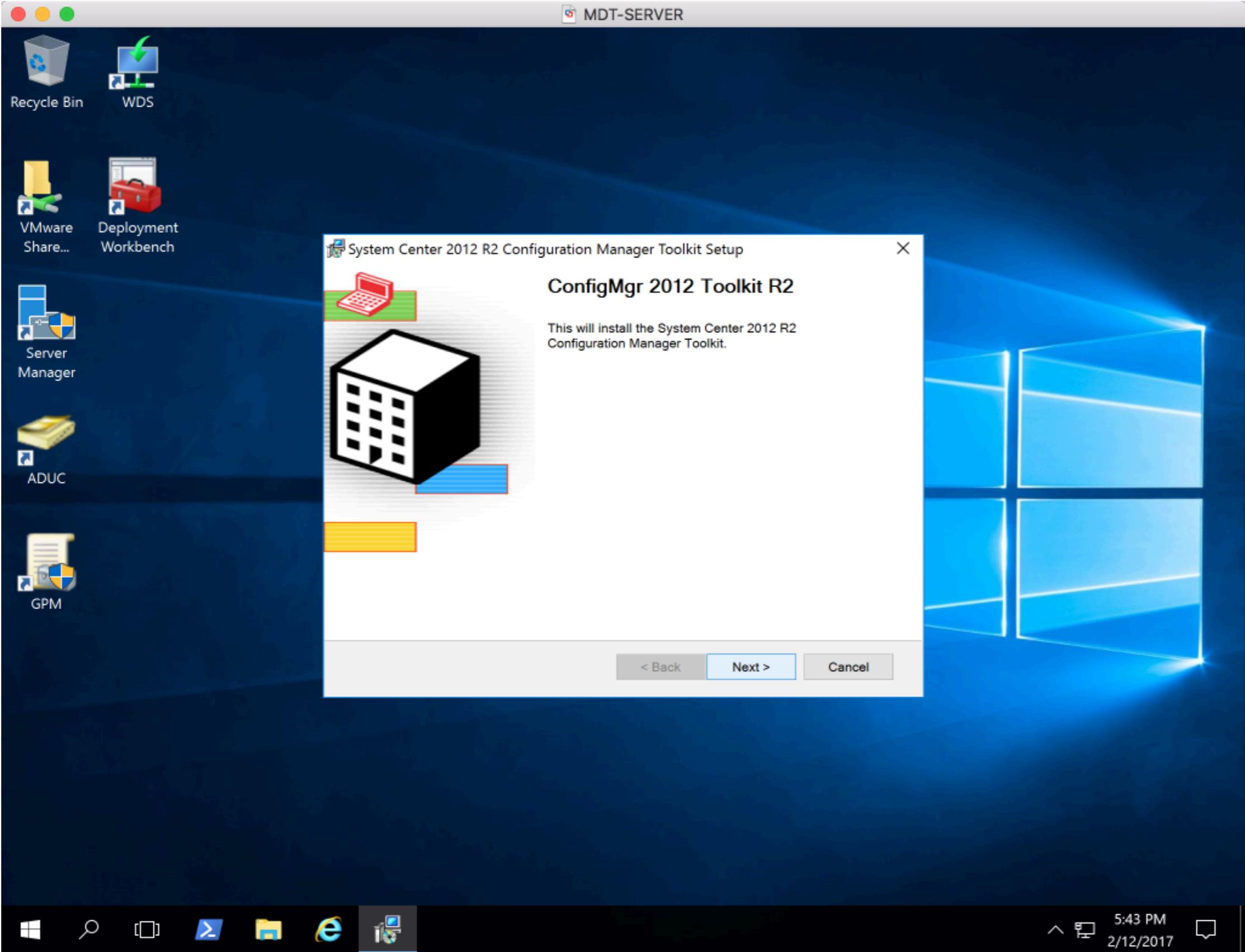
[Shop now >](#) [Learn more >](#)

Site feedback

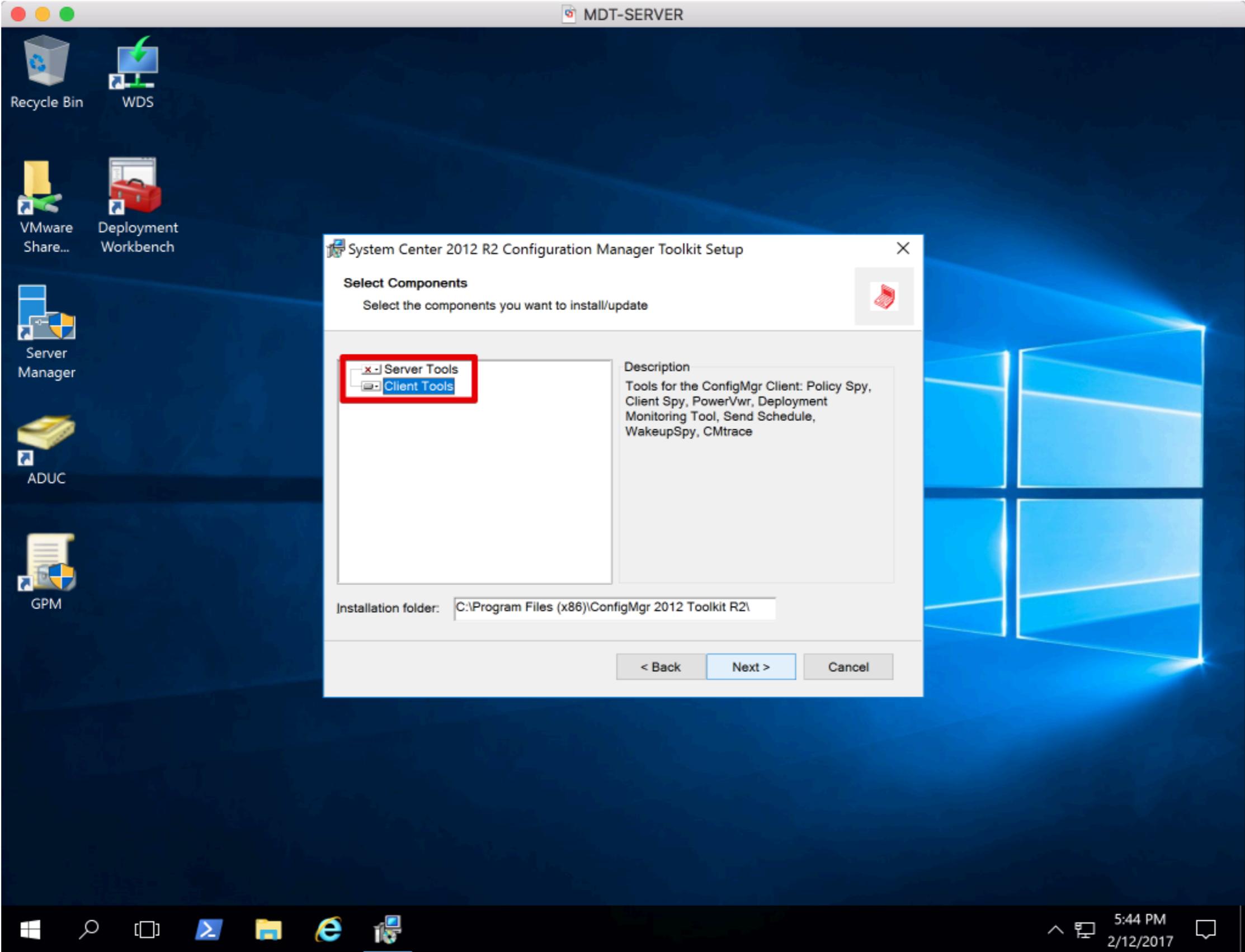
System Center 2012 R2 Configuration Manager Toolkit

12:22 PM 2/12/2017

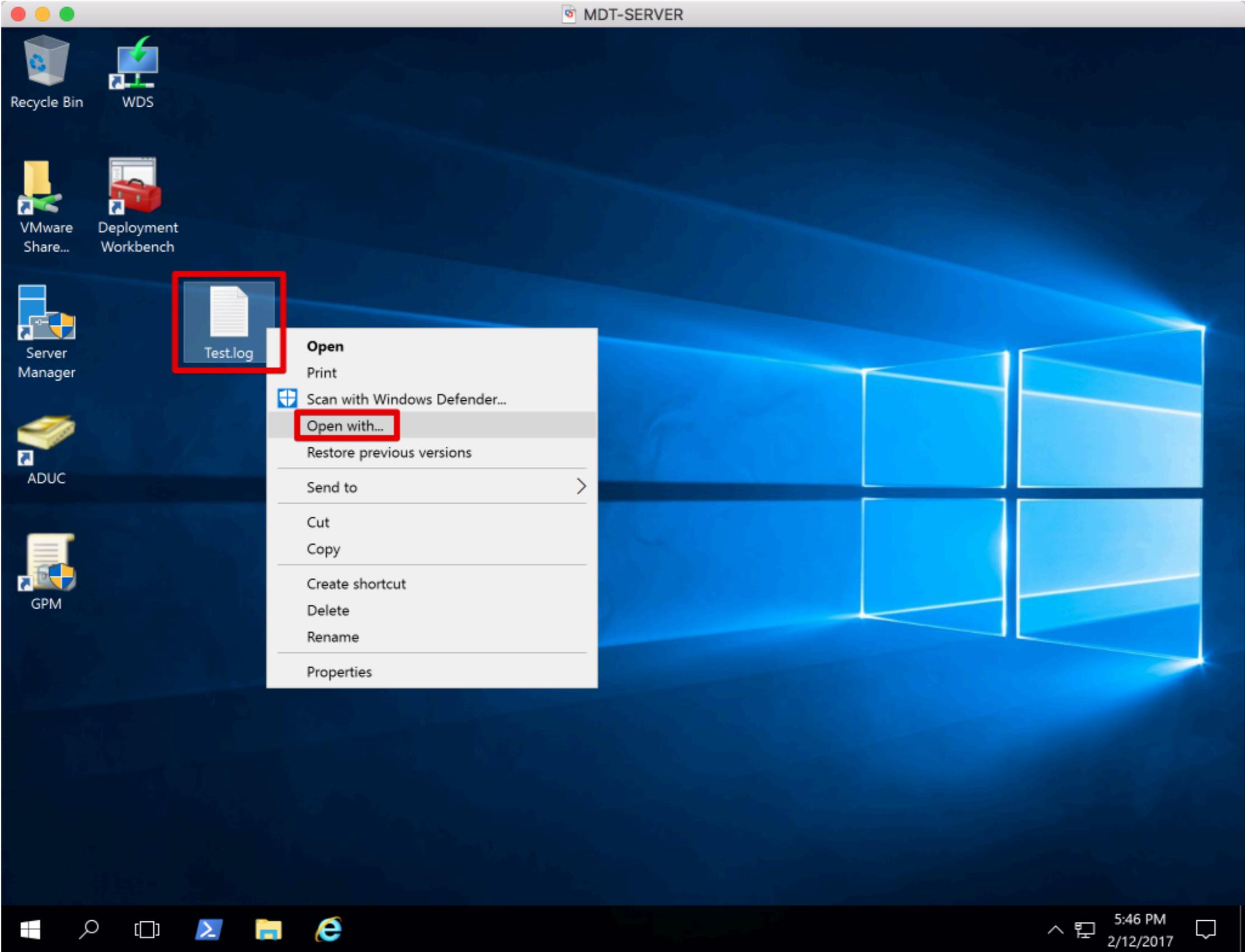
SCCM TOOLKIT | INSTALL



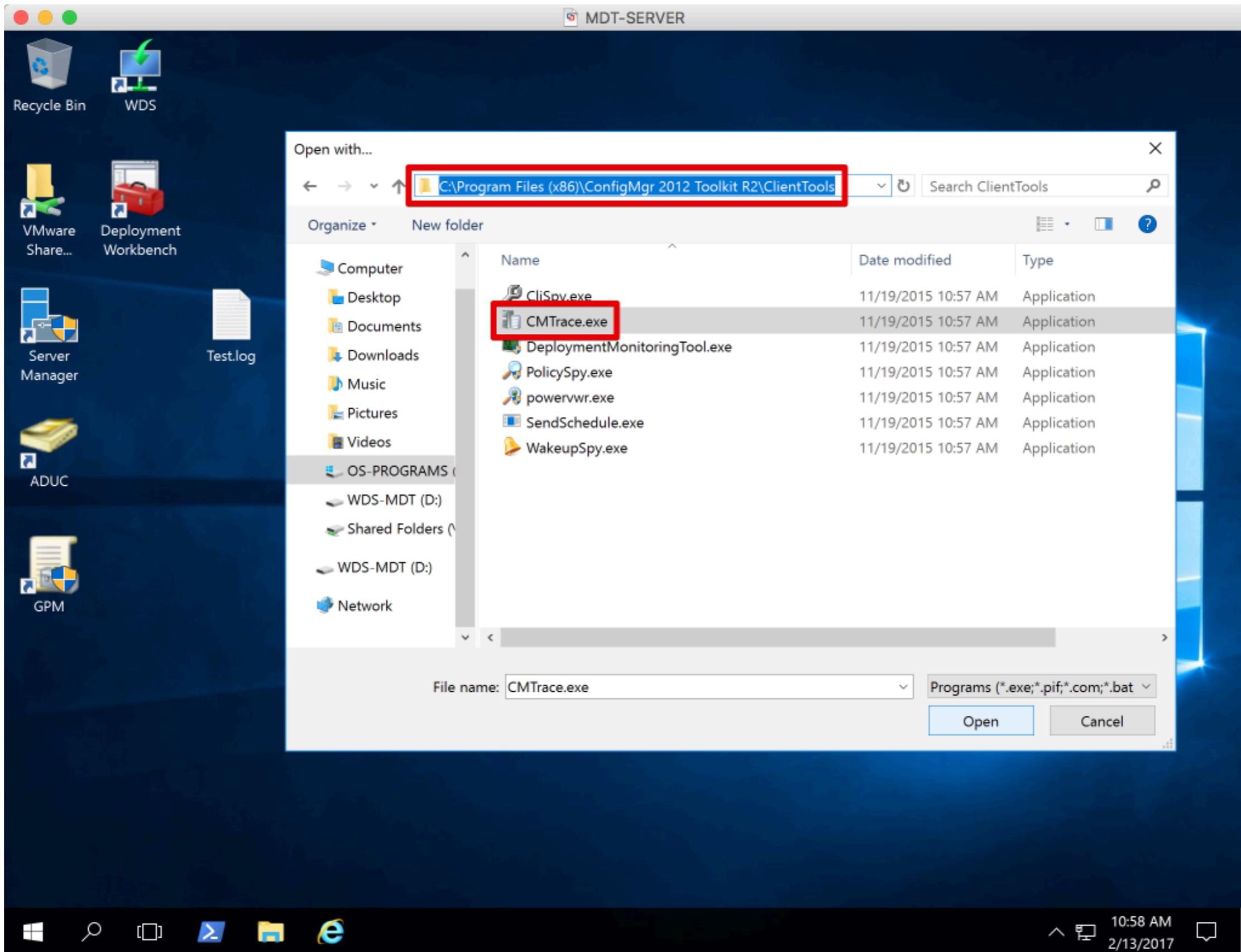
SCCM TOOLKIT | INSTALL



SCCM TOOLKIT | INSTALL



SCCM TOOLKIT | INSTALL



MDT | TROUBLESHOOTING

The screenshot shows the Deployment Workbench interface for an MDT server. The main window is titled "MDT-SERVER" and shows the "MDT Deployment Share (D:\MDT) Properties" dialog box. The dialog has four tabs: "General", "Rules", "Windows PE", and "Monitoring". The "General" tab is selected, and it contains a text area with the following settings:

```
[Settings]
Priority=Default
Properties=MyCustomProperty

[Default]
OSInstall=Y
SkipCapture=YES
SkipAdminPassword=YES
SkipProductKey=YES
SkipComputerBackup=YES
SkipBitLocker=YES
EventService=http://MDT-SERVER:9800

DeployRoot=\\MDT-SERVER\MDT$
SLShare=%DeployRoot%\Logs
```

The "DeployRoot" and "SLShare" lines are highlighted with a red rectangular box. Below the text area is an "Edit Bootstrap.ini" button. At the bottom of the dialog are "OK", "Cancel", "Apply", and "Help" buttons. The background shows the Deployment Workbench interface with a tree view on the left and a context menu on the right. The Windows taskbar at the bottom shows the time as 6:25 PM on 2/19/2017.

MDT | TROUBLESHOOTING

The screenshot shows a Windows desktop environment with a File Explorer window open. The window title is 'MDT-CLIENT-1' and the address bar shows the path 'D:\MDT\Logs\MDT-CLIENT-1'. The file list contains the following items:

Name	Date modified	Type
Panther	2/19/2017 6:19 PM	File folder
BDD.LOG	2/19/2017 6:19 PM	LOG File
LiteTouch.log	2/19/2017 6:19 PM	LOG File
LTIApply.log	2/19/2017 6:16 PM	LOG File
LTIApplyScripts.log	2/19/2017 8:11 PM	LOG File
NetSetup.LOG	2/19/2017 6:13 PM	LOG File
PnpEnum.xml	2/19/2017 8:09 PM	XML Document
smsts.log	2/19/2017 6:19 PM	LOG File
Wizard.log	2/19/2017 8:08 PM	LOG File
ZTIApplications.log	2/19/2017 6:19 PM	LOG File
ZTIApplyGPOPack.log	2/19/2017 6:19 PM	LOG File
ZTIBDE.log	2/19/2017 6:19 PM	LOG File
ZTIConfigure.log	2/19/2017 8:11 PM	LOG File
ZTIDiskpart.log	2/19/2017 8:09 PM	LOG File
ZTIDomainJoin.log	2/19/2017 6:16 PM	LOG File
ZTIDrivers.log	2/19/2017 8:11 PM	LOG File
ZTIGather.log	2/19/2017 6:16 PM	LOG File

The desktop background is a blue Windows 7-style wallpaper. The taskbar at the bottom shows the Start button, search icon, and several application icons. The system tray in the bottom right corner displays the time '6:23 PM' and the date '2/19/2017'.

MDT | TROUBLESHOOTING

The screenshot shows a Windows File Explorer window titled "MDT-SERVER" displaying the directory "D:\MDT\Log\MDT-CLIENT-1". The "BDD.LOG" file is selected. Below it, the Configuration Manager Trace Log Tool is open, displaying the log content for "BDD.LOG".

File Explorer Details:

Name	Date modified	Type	Size
Panther	2/19/2017 6:19 PM	File folder	
BDD.LOG	2/19/2017 6:19 PM	LOG File	318 KB
LiteTouch.log	2/19/2017 6:19 PM	LOG File	27 KB
LTIApply.log	2/19/2017 6:16 PM	LOG File	32 KB
LTIApplyScripts.log	2/19/2017 8:11 PM	LOG File	18 KB
NetSetup.LOG	2/19/2017 6:13 PM	LOG File	10 KB
PnpEnum.xml	2/19/2017 8:09 PM	XML Document	65 KB
smsts.log	2/19/2017 6:19 PM	LOG File	92 KB

Configuration Manager Trace Log Tool - [D:\MDT\Log\MDT-CLIENT-1\BDD.LOG]

Log Text	Component	Date/Time	Thread
Property OSDisk is now = C:	ZTIWinRE	2/19/2017 6:11:56 PM	0 (0x0)
WinRE is not enabled, Skip.	ZTIWinRE	2/19/2017 6:11:56 PM	0 (0x0)
ZTIWinRE processing completed successfully.	ZTIWinRE	2/19/2017 6:11:56 PM	0 (0x0)
Event 41001 sent: ZTIWinRE processing completed successfully.	ZTIWinRE	2/19/2017 6:11:56 PM	0 (0x0)
Microsoft Deployment Toolkit version: 6.3.8443.1000	ZTINextPhase	2/19/2017 6:11:56 PM	0 (0x0)
The task sequencer log is located at X:\WINDOWS\TEMP\SMSTSLog\SMSTS.LOG. For task sequence failures, please consult this log.	ZTINextPhase	2/19/2017 6:11:56 PM	0 (0x0)
Property PHASE is now = STATERESTORE	ZTINextPhase	2/19/2017 6:11:56 PM	0 (0x0)
ZTINextPhase COMPLETED. Return Value = 0	ZTINextPhase	2/19/2017 6:11:56 PM	0 (0x0)
ZTINextPhase processing completed successfully.	ZTINextPhase	2/19/2017 6:11:56 PM	0 (0x0)
Event 41001 sent: ZTINextPhase processing completed successfully.	ZTINextPhase	2/19/2017 6:11:56 PM	0 (0x0)
Command completed, return code = -2147021886	LiteTouch	2/19/2017 6:11:56 PM	0 (0x0)
Property LTIDirty is now = FALSE	LiteTouch	2/19/2017 6:11:56 PM	0 (0x0)
If there is a drive letter defined, make sure we clear it now so we can *force* recalculation.	LiteTouch	2/19/2017 6:11:56 PM	0 (0x0)
Property OSDTargetDriveCache is now = DIRTY	LiteTouch	2/19/2017 6:11:56 PM	0 (0x0)
LTI initiating task sequence-requested reboot.	LiteTouch	2/19/2017 6:11:56 PM	0 (0x0)
Event 41017 sent: LTI initiating task sequence-requested reboot.	LiteTouch	2/19/2017 6:11:56 PM	0 (0x0)
Property start is now =	LiteTouch	2/19/2017 6:14:11 PM	0 (0x0)

Elapsed time is 0h 12m 41s 0ms (761.000 seconds)

WHERE TO GO FROM HERE?

ADDITIONAL RESOURCES

ONLINE RESOURCES

- ▶ Technet Library | technet.microsoft.com/en-us/library/dn781292.aspx
- ▶ Deployment Research | www.deploymentresearch.com
- ▶ Deployment Bunny | www.deploymentbunny.com
- ▶ Petri IT Knowledge Base | www.petri.com
- ▶ 4sysops | www.4sysops.com
- ▶ Google & YouTube



QUESTIONS?

Thank you for joining us!