Topic: Creating and Managing Deployment Images (MDT)

Objective:

The objective of this lab is to guide you through the process of using Microsoft Deployment Toolkit (MDT) 2013 Update 2 for the deployment of Windows Server 2016. You will learn to configure a deployment share, import the operating system and applications, create a deployment task sequence, and deploy the image to a target VM, verifying a successful deployment including application installation.20740A-LAB.pdf

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Pre-requisites:

- **Lab Environment Requirements:**
    - VMware Workstation running 6 VMs:
        - LON-DC1: Windows Server 2016 Datacenter Evaluation GUI (Domain Controller, DNS)
        - LON-SVR1: Windows Server 2016 Standard Evaluation GUI (MDT and deployment target)
        - LON-SVR2: Windows Server 2016 Standard Evaluation GUI
        - LON-CORE: Windows Server 2016 Datacenter Evaluation CLI
        - LON-CL1: Windows 10 Pro
        - LON-RHEL: Red Hat Enterprise Linux 10
    - All Windows VMs (except LON-RHEL) joined to domain **RPSLAB.COM** via Active Directory.
    - Administrative rights on LON-DC1 and LON-SVR1.
    - Access to the following installation media and files:
        - Windows Server 2016 ISO (WinServer2016_TP5.ISO)
        - MDT 2013 Update 2
        - Application installer (e.g., Microsoft Excel Viewer)
        - LiteTouchPE_x64.iso (MDT boot image)
        - Lab files directory (e.g., E:\Labfiles\Mod11)

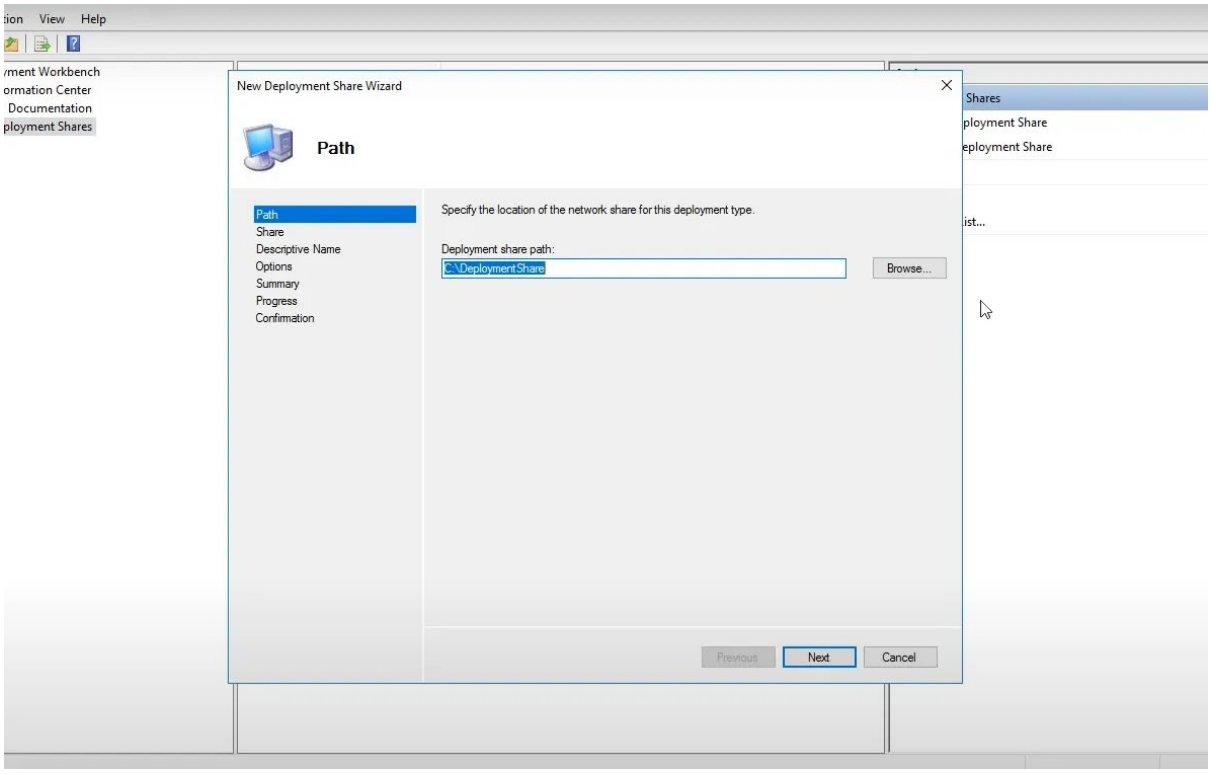
- Hyper-V Manager available on your HOST system.

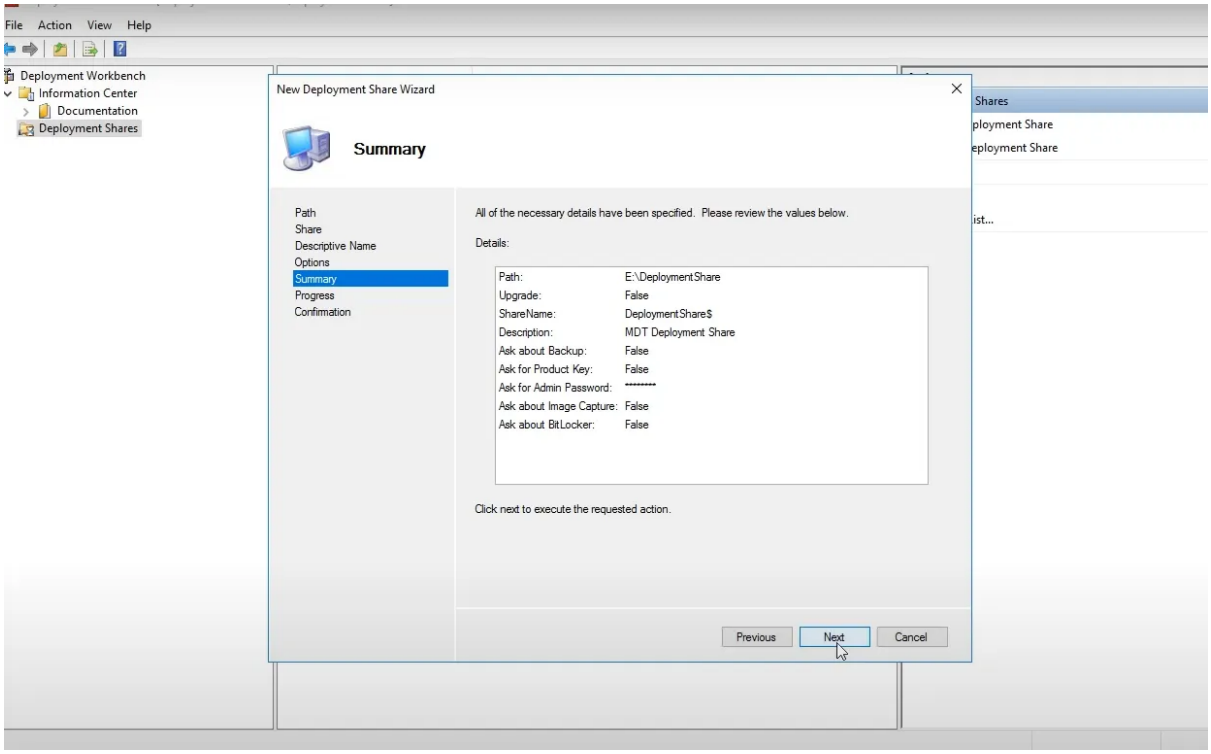
Procedure:

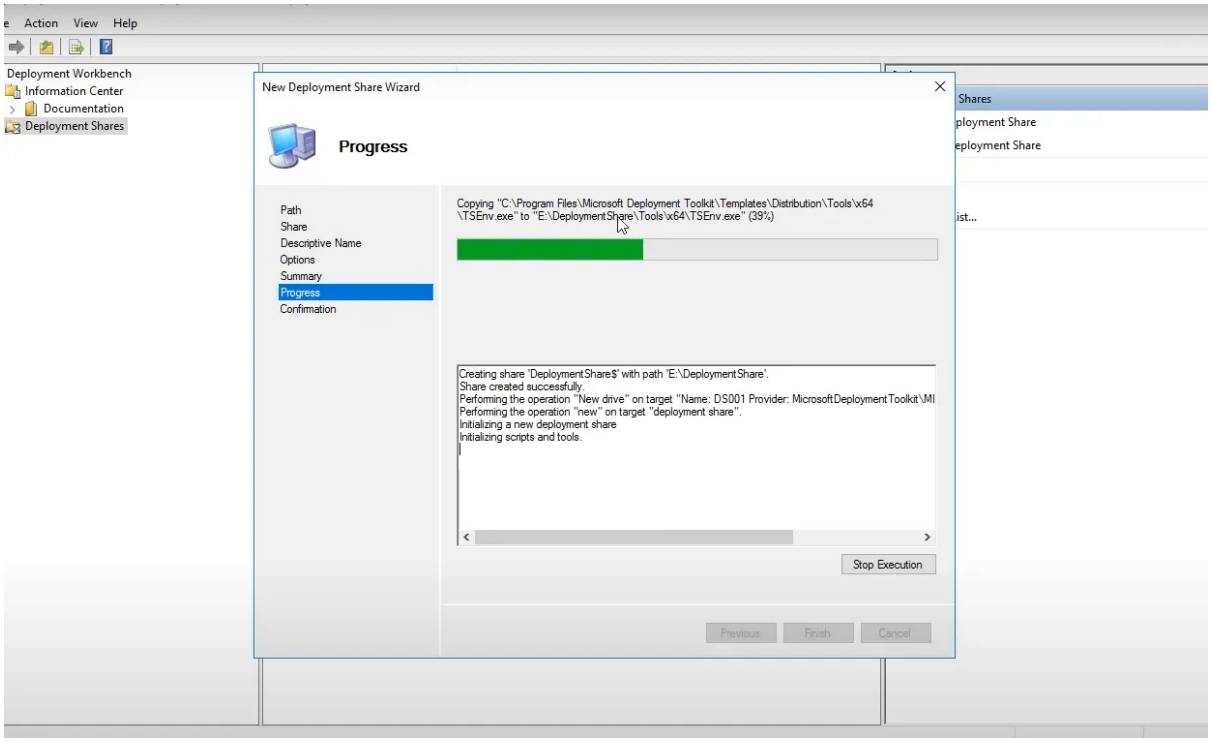
Exercise 1: Configuring MDT

Task 1: Configure the Deployment Share

1. On **LON-SVR1**, open Microsoft Deployment Toolkit > Deployment Workbench.
2. In the left pane, right-click **Deployment Shares** > **New Deployment Share**.
3. Set the **Deployment share path** to C:\DeploymentShare.
4. Proceed through the wizard:
    - Confirm share name (accept default hidden share).
    - Note descriptive name for use in Workbench.
    - On **Options**: Clear "Ask for a product key" and "Ask to set the local Administrator password."
5. Complete and Finish. Deployment share is now configured.





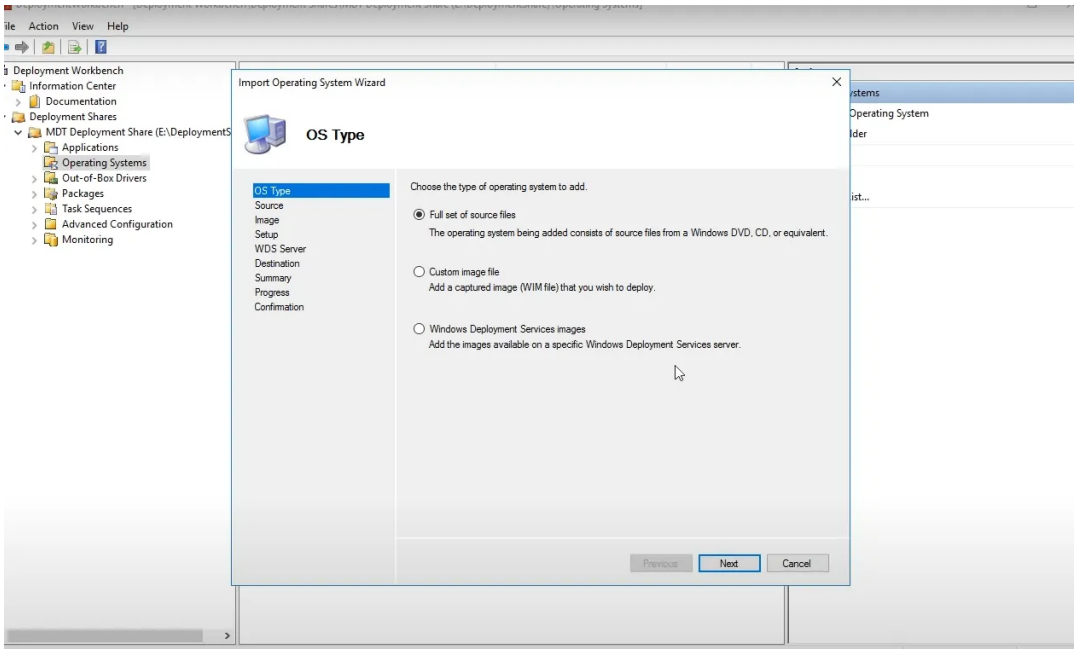


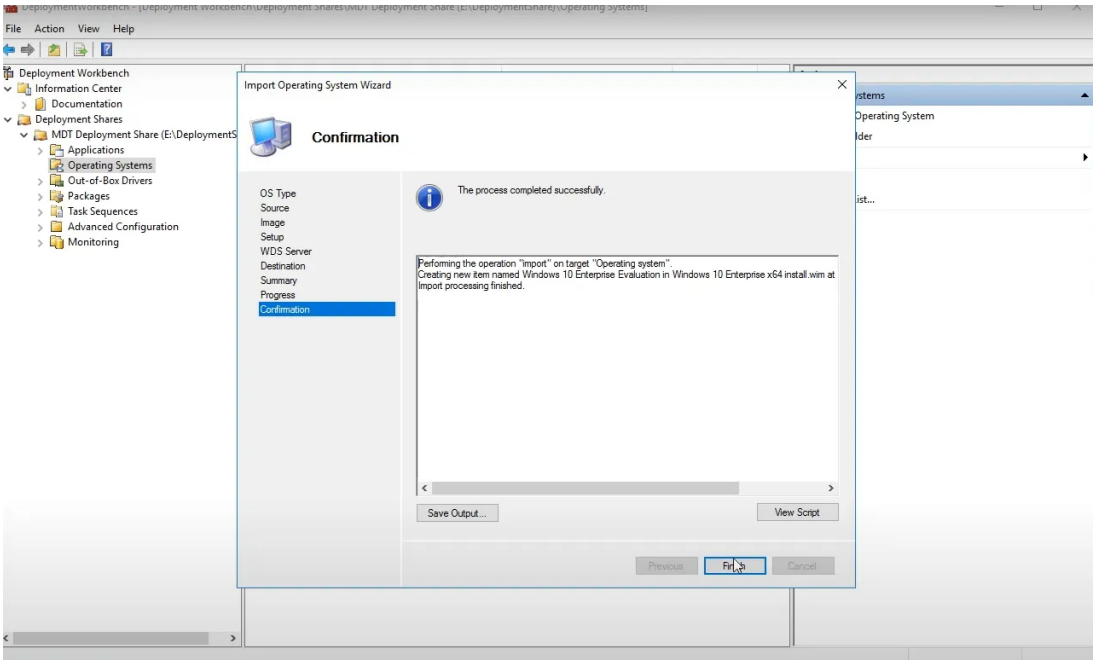
Exercise 2: Creating and Deploying an Image

Task 1: Add a Reference Image (Windows Server 2016)

1. On **LON-SVR1** (in Hyper-V or local console):
    - Attach WinServer2016_TP5.ISO via virtual DVD drive if necessary.

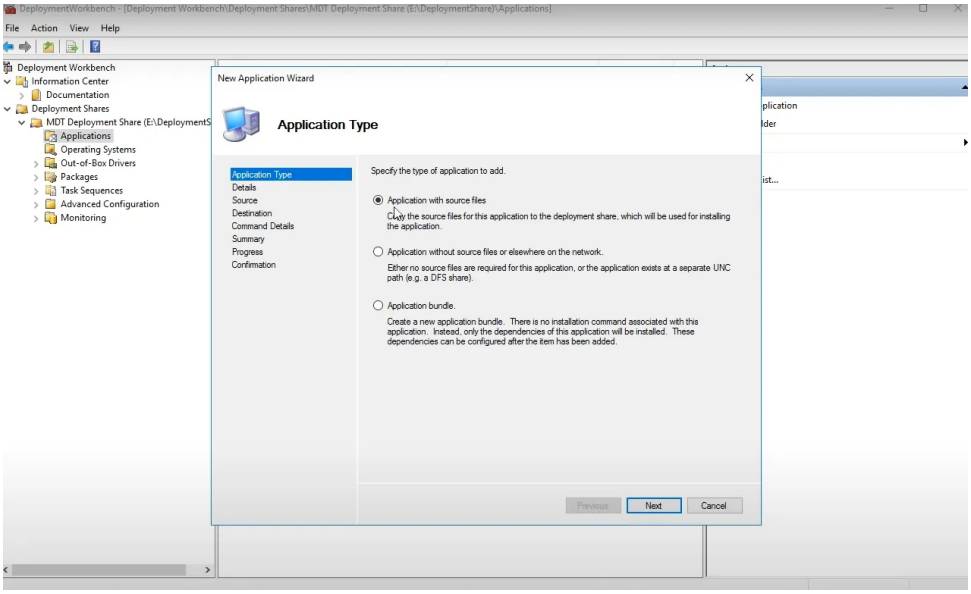
2. In **Deployment Workbench**:
    - Expand Deployment Shares > MDT Deployment Share (C:\DeploymentShare) > **Operating Systems**.
    - Right-click **Operating Systems** > **Import Operating System**.
    - Choose **Full set of source files** option, click Next.
    - Enter source directory (e.g., D:$$.
    - Set destination directory name, e.g., WindowsServer2016x64.
    - Complete the wizard (import process may take several minutes).

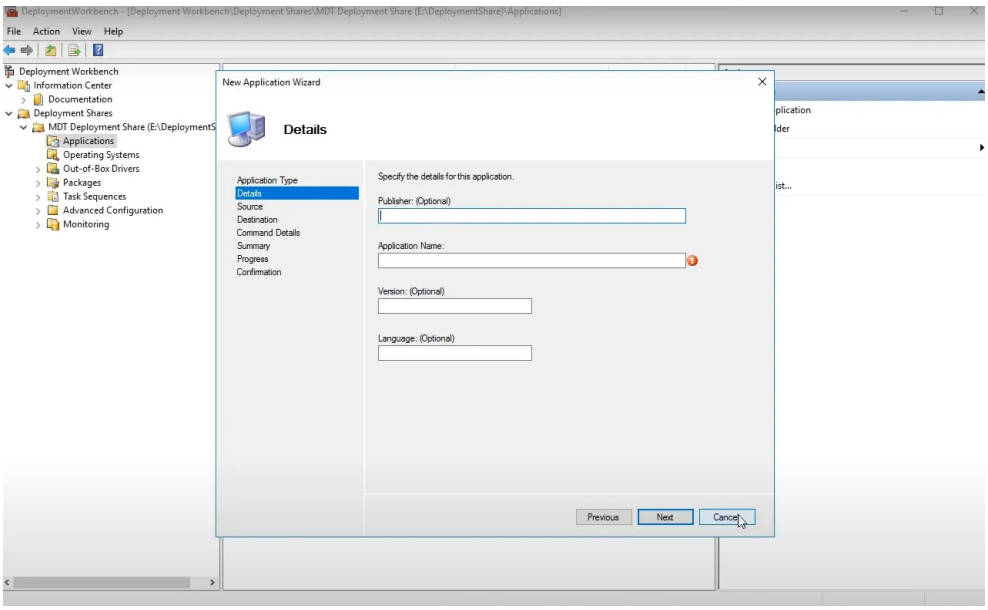




Task 2: Add an Application to the Image

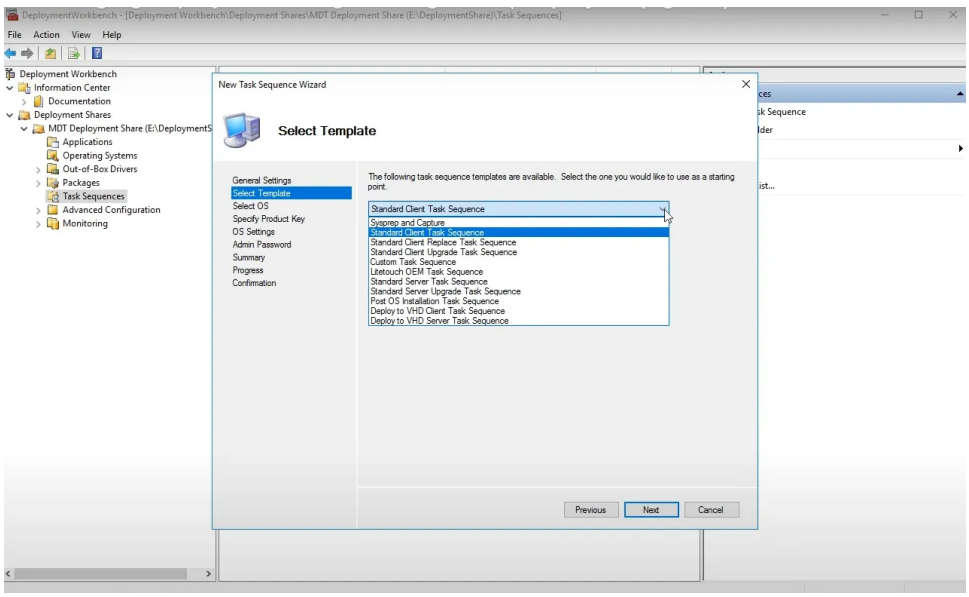
1. In **Deployment Workbench**, right-click **Applications** > **New Application**.
2. Choose **Application with source files**, click Next.
3. Enter application details (e.g., Publisher: Microsoft, Application Name: ExcelViewer).
4. Enter the source directory (E:\Labfiles\Mod11), set destination directory (e.g., ExcelViewer).
5. On Command Details, type install command (e.g., excelviewer.exe /quiet /norestart).
6. Complete the wizard.

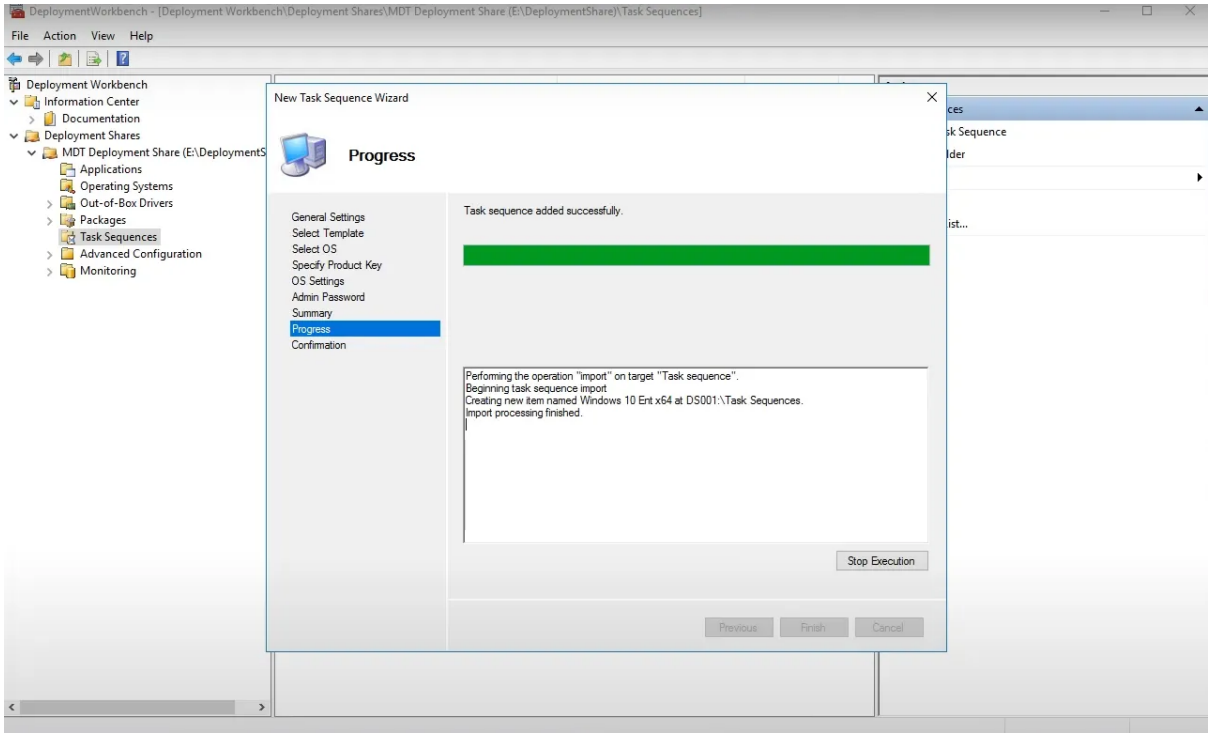




Task 3: Create the Deployment Task Sequence

1. In **Deployment Workbench**, right-click **Task Sequences** > **New Task Sequence**.
2. Fill in:
    - Task sequence ID (e.g., 11-01)
    - Name (e.g., Lab 11-01)
    - Comments as needed
3. Template: Choose **Standard Server Task Sequence**.
4. Select OS: Choose imported **Windows Server 2016 Technical Preview 5 SERVERDATACENTER**.
5. Do not specify a product key.
6. Fill in organization and admin password (e.g., Administrator, A. Datum Corporation, Pa$$w0rd).
7. Finish the wizard.
8. In the **Task Sequence** properties, add the ExcelViewer application to the "Install Applications" node.
9. In **Deployment Workbench**, right-click the deployment share and select **Update Deployment Share** (creates/updates MDT boot images).
10. Enable Monitoring:
    - Right-click **MDT Deployment Share**, select **Properties**, go to **Monitoring** tab, and enable.

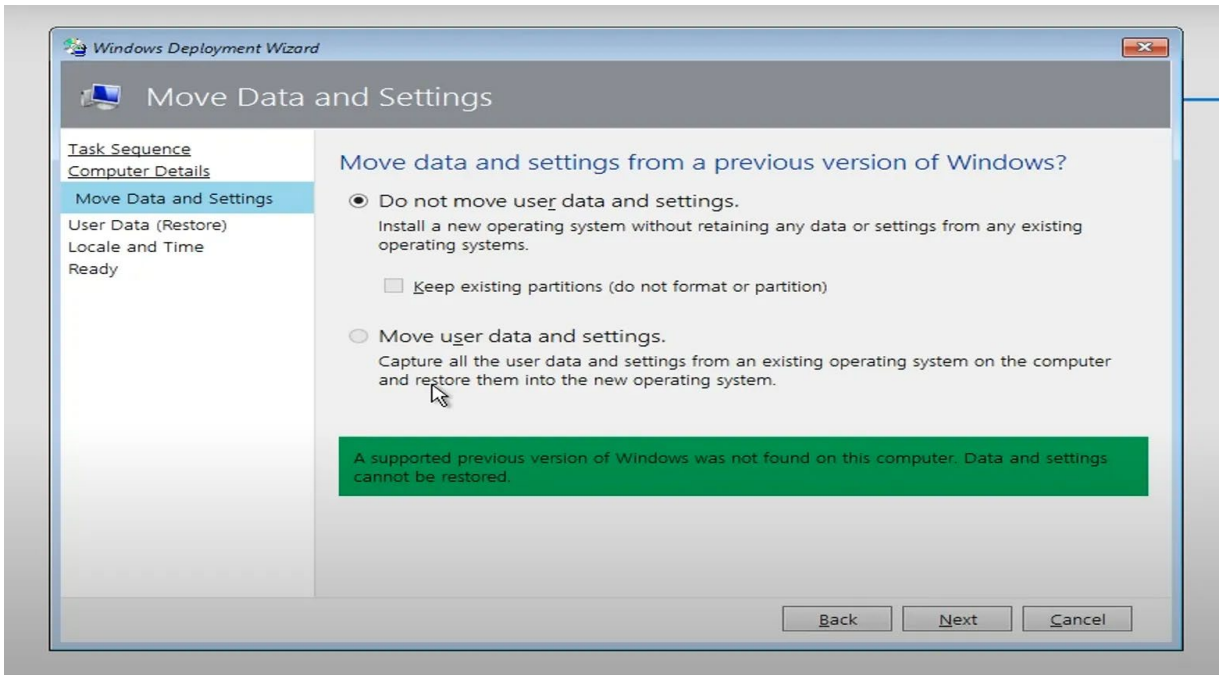


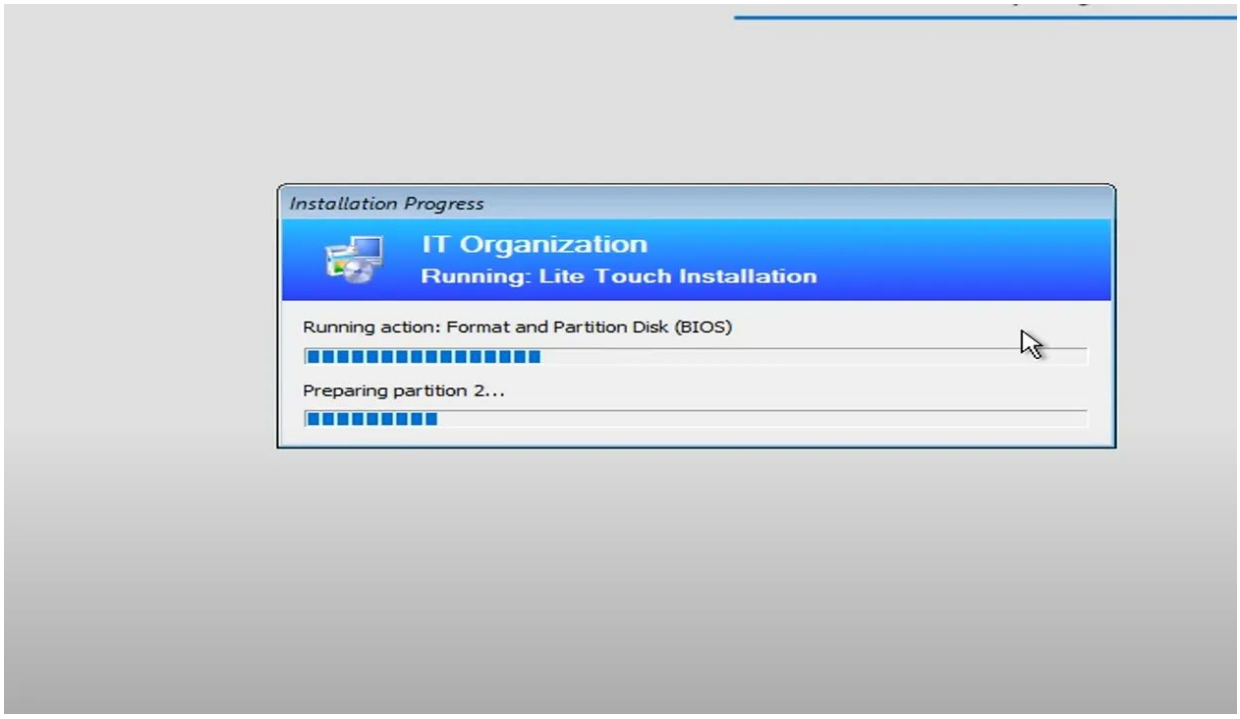


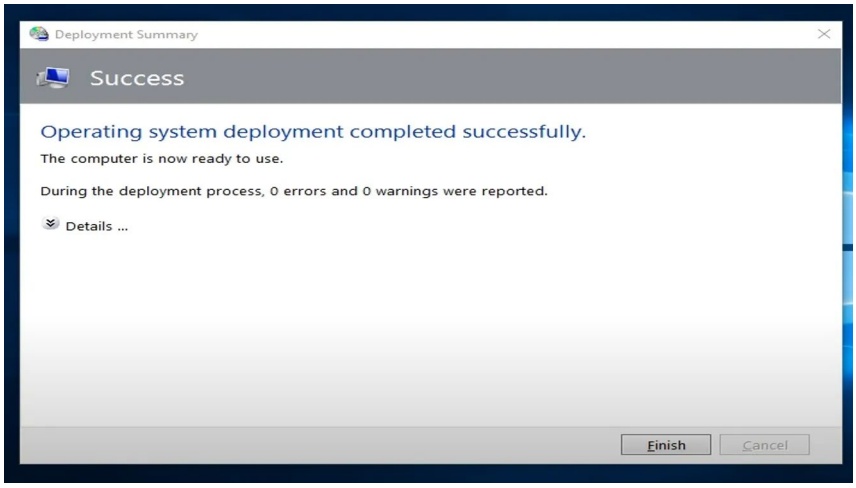
Task 4: Deploy the Image to LON-SVR6

1. In **Hyper-V Manager** (on HOST), power on the target VM (e.g., 20740A-LON-SVR6).
2. Attach the LiteTouchPE_x64.iso to the VM's DVD drive.
3. Start **LON-SVR6**, boot from MDT LiteTouch.
4. In the MDT wizard:
    - Choose **Run the Deployment Wizard to install a new Operating System**.
    - User Credentials: Administrator/Pa$$w0rd, domain: RPSLAB.COM (or Adatum.com in original instructions).
    - Task Sequence: Select "Lab 11-01".
    - Computer name: LON-SVR6. Choose to join domain RPSLAB.COM.
    - Locale and Time: Use defaults.
    - BitLocker: Do not enable.
    - Click **Begin** to start.
5. Monitor installation progress.

6. When prompted, click "Do this later" on Product Key page. System will complete OOBE.
7. Log in to desktop after completion.
8. Confirm:
    - Computer name is LON-SVR6 and domain is RPSLAB.COM.
    - **Microsoft Office Excel Viewer** is present in the apps list.







Exercise 3: Monitoring the Deployment

1. On **LON-SVR1**, in **Deployment Workbench**, expand Monitoring.
2. Refresh to observe progress/state of LON-SVR6 deployment.

Task 5: Prepare for the Next Module

- When finished, revert all relevant VMs (LON-DC1, LON-SVR1, LON-SVR6) to their initial state as per course policy.

Conclusion:

After completing Module 11, you have:

- Configured Microsoft Deployment Toolkit for automatic OS and application deployment.
- Successfully imported a Windows Server 2016 image and a sample application.
- Created and managed deployment task sequences.
- Deployed and tested a Windows Server 2016 installation on a new VM (LON-SVR6), including application installation and domain join.
- Verified and documented each step with corresponding screenshots for your lab report.

This experience builds the foundation for automated enterprise deployments and streamlining OS/application provisioning in a real-world domain environment.20740A-LAB.pdf