

Wipro SIM Program - DWS Pre-Skilling Training Study Material

****Wipro SIM Program - DWS Pre-Skilling Training Study Material (Practical & Resource-Oriented)****

■ Full Topic-Wise Breakdown with Practical Learning Steps & Best Resources (Upgraded & Expanded)

1. ****Application Packaging****

- ****Goal:**** Learn how to repackage .exe applications into .msi or MSIX format for enterprise deployment.
- ****Tools to Use:****
 - Advanced Installer (Free & Paid)
 - InstallShield (Industry Standard)
 - Orca MSI Editor (Free from Microsoft SDK)
 - MSIX Packaging Tool (Microsoft Store)
- ****Practical Task:****

1. Download a known .exe app like Notepad++ or VLC.
2. Use Advanced Installer or MSIX Packaging Tool to create a new MSI or MSIX package.
3. Add necessary registry entries, shortcuts, and silent parameters.
4. Build and test on a clean virtual machine or sandbox.
 - ****Best Resources:****
 - <https://www.advancedinstaller.com/user-guide/tutorial-simple.html>
 - <https://learn.microsoft.com/en-us/windows/msix/>
 - YouTube: "Advanced Installer | Repackaging Software Step-by-Step"
 - LinkedIn Learning: "Windows Installer Basics with InstallShield"

2. ****Scripting - PowerShell App Toolkit****

- ****Goal:**** Automate deployments, updates, system changes using PowerShell scripts.
- ****Tools to Use:****
 - Windows PowerShell
 - PowerShell ISE or Visual Studio Code (with PowerShell extension)
 - PowerShell App Deployment Toolkit (PSADT)
- ****Practical Task:****

1. Write a PowerShell script to silently install Notepad++:
`Execute-Process -Path 'npp.8.6.4.Installer.x64.exe' -Parameters '/S'`
2. Add logging, condition checks (if already installed), and create a wrapper script using PSADT.
 - ****Best Resources:****
 - <https://learn.microsoft.com/en-us/powershell/>
 - <https://psappdeploytoolkit.com/documentation/>
 - <https://github.com/PSAppDeployToolkit/PSAppDeployToolkit>
 - YouTube: "PowerShell App Deployment Toolkit Explained"

3. ****Application Compatibility Testing****

- ****Goal:**** Identify and resolve issues when legacy applications are used on modern Windows OS.
- ****Tools to Use:****
 - Windows Application Compatibility Toolkit (ACT)
 - Compatibility Administrator (part of ACT)

- Compatibility Troubleshooter in Windows
- **Practical Task:**
- Use Compatibility Troubleshooter for old apps.
- Analyze shims and fix compatibility issues.
- **Best Resources:**
- <https://learn.microsoft.com/en-us/windows/deployment/planning/windows-compatibility>
- Channel 9 Microsoft Videos on Application Compatibility
- YouTube: "Using Compatibility Administrator Toolkit"

4. **Application Virtualization (App-V / MSIX)**

- **Goal:** Deliver applications in isolated containers that do not require traditional installation.
- **Tools to Use:**
- Microsoft App-V 5.1 Sequencer
- MSIX Packaging Tool
- Sandbox environments (Windows Sandbox or Hyper-V VM)
- **Practical Task:**
- Use App-V Sequencer to package VLC.
- Test package delivery using App-V Client.
- **Best Resources:**
- <https://learn.microsoft.com/en-us/microsoft-desktop-optimization-pack/appv-v5/appv-info>
- <https://learn.microsoft.com/en-us/windows/msix/>
- Pluralsight: "App-V Deep Dive" course
- YouTube: "App-V 5.1 Full Workflow"

5. **SCCM Deployment**

- **Goal:** Use Microsoft Endpoint Configuration Manager to deploy, patch, and manage applications.
- **Tools to Use:**
- SCCM Console
- Hyper-V Lab (for SCCM setup)
- Windows Server 2019 or above (for test domain)
- **Practical Task:**
- Deploy an MSI file to a device collection.
- Monitor logs via SCCM client log viewer.
- **Best Resources:**
- <https://learn.microsoft.com/en-us/mem/configmgr/>
- <https://www.prajwaldesai.com>
- YouTube: "SCCM Full Lab Setup + Deployment"
- LinkedIn Learning: "Microsoft Endpoint Manager Full Course"

6. **UXM Tools (Nextthink, Systrack, 1E)**

- **Goal:** Analyze and improve digital employee experience using real-time insights.
- **Tools to Use:**
- Nextthink Infinity
- Lakeside Systrack
- 1E Tachyon Platform
- **Practical Task:**
- Watch platform demos.
- Identify how incident resolution, patch failures, user activity tracking works.
- **Best Resources:**
- <https://academy.nextthink.com/>
- <https://www.lakesidesoftware.com/>

- <https://www.1e.com/tachyon/>
- YouTube: "Digital Employee Experience Platforms Compared"

7. **Enterprise Mobility Management (EMM)**

- **Goal:** Manage mobile devices, apps, and users securely in an enterprise environment.
- **Tools to Use:**
 - Microsoft Intune (EMM via Endpoint Manager)
 - VMware Workspace ONE
 - MDM/EMM Simulators (Intune DEM account)
- **Practical Task:**
 - Set up Microsoft 365 trial.
 - Enroll a virtual device or emulator and apply policies.
- **Best Resources:**
 - <https://learn.microsoft.com/en-us/mem/intune/>
 - <https://docs.vmware.com/en/VMware-Workspace-ONE/index.html>
 - Udemy: "Microsoft Intune Training for Beginners"
 - Microsoft Learn Sandbox Lab: Intune

8. **JAMF (Mac Device Management)**

- **Goal:** Learn to manage Apple devices at scale (macOS, iOS, iPadOS)
- **Tools to Use:**
 - JAMF Pro cloud dashboard
 - Apple School/Business Manager (for real-world simulation)
- **Practical Task:**
 - Complete JAMF 100 Certification
 - Explore policies, configuration profiles, app deployments
- **Best Resources:**
 - <https://training.jamf.com/courses/jamf-100>
 - <https://www.youtube.com/c/JAMFSoftware>
 - <https://community.jamf.com/>

9. **Capstone / Final Project Ideas**

- Repackage real apps (Notepad++, VLC) as MSI and MSIX
- Write a PowerShell script using PSADT for installation + logging
- Document deployment through SCCM or Intune
- Analyze user behavior via Nextthink (simulated or documented)
- Create a presentation and a technical report with screenshots

■ Extra Resources for Revision & Practice

- YouTube Channels:
 - "Prajwal Desai" (SCCM, Intune, App Packaging)
 - "The DevOps Journal" (PowerShell + SCCM + Intune)
- GitHub Repos:
 - <https://github.com/PSAppDeployToolkit/PSAppDeployToolkit>
- Online Platforms:
 - LinkedIn Learning
 - Pluralsight (free with Microsoft Developer Program)
 - Microsoft Learn (has hands-on sandboxes)

■ Final Tip to Crack Interview

- Prepare definitions and use-cases for each topic
- Focus on what you did and what value it added
- Be ready to explain one real-life or lab scenario from start to end
- Practice explaining to a non-technical friend or in front of mirror