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## Slide 1: Title

**(Opening)** Hello everyone, my name is Krishna Verma, and today I'll be presenting my capstone project on using PSADT for application deployments.

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## Slide 2: Introduction & Objectives

**(Introduction)** My project focuses on the **PowerShell App Deployment Toolkit, or PSADT**<sup>1</sup>. This is a powerful tool for creating, testing, and modifying application deployment packages<sup>2</sup>.

**(Objectives)** The main goal of this project was to automate application installations with specific conditions, logging, and registry edits<sup>3</sup>. To achieve this, I had several key objectives:

- Automate application deployment using PSADT<sup>4</sup>.
  - Create a standardized installation and uninstallation process<sup>5</sup>.
  - Demonstrate the entire deployment process within a virtual machine<sup>6</sup>.
  - Generate logs and registry keys to verify the deployment's success<sup>7</sup>.
  - And, of course, gain valuable hands-on experience with PowerShell scripting<sup>8</sup>.
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## Slide 3: Project Requirements & Architecture

**(Requirements)** To complete this project, I needed a few key components:

- A Windows 10 or 11 Virtual Machine<sup>9</sup>.
- PowerShell version 5.1 or later<sup>10</sup>.
- The PSADT Toolkit itself<sup>11</sup>.
- An application installer, specifically the 7-Zip MSI<sup>12</sup>.
- And a text editor like VS Code or PowerShell ISE<sup>13</sup>.
- Crucially, all of this required administrator privileges for testing<sup>14</sup>.

**(Architecture Diagram)** The process flows like this: We use the **PSADT Toolkit** and the **application installer** within a **virtual machine**. Once the script runs, it generates **logs and registry entries**, which we can then use for verification.

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## Slide 4: Project Steps

**(Step 1: Initial Setup)** The first step was to get everything ready. I downloaded the latest PSADT from GitHub and extracted the files into my project directory<sup>15</sup>. I then verified that the two most important files, `Deploy-Application.ps1` and `AppDeployToolkitMain.ps1`, were present<sup>16</sup>.

**(Step 2: Project Folder Setup)** Next, I placed the 7-Zip MSI installer inside the "Files" folder within the PSADT directory to create the proper folder structure for my deployment package<sup>17</sup>.

**(Step 3: Virtual Machine Preparation)** I prepared a clean Windows 10/11 VM, updated PowerShell to version 5.1 or later, and ensured I had the necessary admin privileges<sup>18</sup>.

**(Step 4: Script Modification)** This was the core of the project. I edited the main

Deploy-Application.ps1 script to add both the installation and uninstallation logic<sup>19</sup>. For installation, I used the

Execute-MSI function<sup>20</sup>, and for uninstallation, I used the same function with the

-Action Uninstall parameter<sup>21</sup>.

**(Step 5: Run Deployment)** Finally, I was ready to test. I executed the script to install the application and verified that 7-Zip was successfully installed<sup>22</sup>. I then ran the script again, this time with the

-DeploymentType 'Uninstall' parameter, to confirm that the application could also be uninstalled correctly<sup>23</sup>.

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## Slide 5: Post-Installation Actions and Verification

**(Script Modification)** I also customized the script to perform a post-installation action: moving the installer file to another folder<sup>24</sup>. This was done using the

Move-Item command<sup>25</sup>. I also added logic to validate the registry after the installation was complete<sup>26</sup>.

**(Verification)** The verification process was crucial.

- **Logs:** I confirmed that success or failure entries were generated by checking the log files located at C:\Windows\Logs\Software or AppDeployToolkit\Logs<sup>27</sup>.
  - **Registry:** I also verified that a new entry for 7-Zip was created in the registry at HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall<sup>28</sup>.
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## Slide 6: Results & Conclusion

**(Results)** The project was a success!

- 7-Zip was successfully installed on the virtual machine<sup>29</sup>.
- The customized script successfully moved the installer file after the installation<sup>30</sup>.
- All the actions were validated through both the logs and the registry entries<sup>31</sup>.

**(Conclusion)** In conclusion, I successfully demonstrated how to deploy an application using PSADT in a VM environment<sup>32</sup>. This project proved the reliability and standardization of this approach by automating the install, uninstall, and post-installation actions and verifying the results through logs and registry entries<sup>33</sup>.

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## Slide 7: Thank You

**(Closing)** Thank you for your time. Are there any questions?