PSAppDeployToolkit(PSADT)

The PSADT is a PowerShell-based framework that <u>simplifies</u> application deployment for enterprises. It provides a <u>structured</u> approach to <u>scripting</u> and <u>deploying</u> applications, offering features like user interface elements, pre-defined functions, and an ADT Session object to store deployment information.

Platform Value

1. Simplifies Complex Scripting
2. Consistent User Experience
3. Improved Deployment Success
4. Open-Source and Contributed

Concepts

1. ADTSession Object
2. Pre-defined Functions
3. Exit Codes Deployment Structure
4. Deployment Modes

Usage

1. Deploying Applications
2. Scripting Deployment Logic
3. Using Functions
4. Running Scripts
5. Utilizing ADTSession

Folder Structure in Powershell App Deploy Toolkit

The PSAppDeployToolkit uses a specific folder structure to organize deployment packages and their associated files.

1. **Toolkit**: Contains the PSAppDeployToolkit framework itself, including the necessary files and folders for creating deployment packages.
2. **Files**: Where you store the installation files for the application you're deploying.
3. **SupportFiles**: An optional folder to store files that support the deployment, such as configuration files or scripts.
4. **Deploy-Application.exe**: The executable file used to execute the deployment script.
5. **Deploy-Application.ps1**: The PowerShell script that contains the logic for deploying the application.
6. **Strings**: Contains the UI messages for the deployment process, including English and other language.
7. **Images**: Holds images used in the deployment UI, such as application logos or icons.
8. **Configuration**: Contains configuration files, including the main configuration file (Deploy-Configuration.psd1).

Tools Configuration in PSAppDeployToolkit

Breakdown of the configuration process:

1. **Download and Extract**: Download the PSAppDeployToolkit and extract the zip file.
2. **Locate Configuration File**: Navigate to the AppDeployToolkit directory and find the AppDeployToolkitConfig.xml file.
3. **Edit Configuration**: Open the AppDeployToolkitConfig.xml file and customize it according to your needs.
   - ● Toolkit Options: Configure general toolkit settings like required administrative rights, temporary file paths, and logging options.
   - ● Banner, Logo & Icon Options: Customize the UI banner, logos, and icons.
   - ● MSI Options: Configure logging options, log paths, and installation parameters for MSI installations.
   - ● UI Options: Set general UI options like balloon notifications, script timeouts, and exit codes.
   - ● UI Messages: Edit or add languages for the user interface.
4. **Save and Apply**: Save the changes to the AppDeployToolkitConfig.xml file. These changes will be applied to all scripts created using PSAppDeployToolkit.

Benefits of Using AppDeployToolkitConfig.xml

- Centralized Configuration
- Consistency
- Customization
- Simplified Scripting

Template Script in PSAppDeployToolkit

The PSAppDeployToolkit provides template scripts for application deployment. These scripts, like Deploy-Application.ps1, are designed to streamline the deployment process and ensure consistency across deployments.

1. **Understanding PSAppDeployToolkit and Templates**
   PSAppDeployToolkit is a framework that simplifies complex scripting for enterprise application deployment. It provides a set of pre-defined functions for common deployment tasks. Template scripts, like Deploy-Application.ps1, are designed to be customized to meet specific deployment requirements.

2. **Using the Template Script (Deploy-Application.ps1)**
   The Deploy-Application.ps1 script is a template that can be used for both installing and uninstalling applications. You can edit the script in the PowerShell ISE application to customize it for your specific needs. The AppDeployToolkitMain.ps1 script, which contains the logic and functions for installing or uninstalling applications.

3. **Creating a New Deployment Using Templates**

   PSAppDeployToolkit provides internal templates that can be used to create new deployments.

   - Use New-ADTTemplate command
   - v3: New-ADTTemplate -Destination C:\Temp\MyAppDeployment -Name "MyOldAppDeployment" -Version 3
   - v4: New-ADTTemplate -Destination C:\Temp\MyAppDeployment -Name "MyApp"

4. **Additional Resources**

   Download templates from GitHub:

   - PSAppDeployToolkit_Template_v3.zip
   - PSAppDeployToolkit_Template_v4.zip.

5. **Customizing the Template Script**
   You can customize the Deploy-Application.ps1 script to meet your specific deployment requirements.
   This includes modifying the script's parameters, adding new commands, and customizing the user interface.