

## PSApp Deploy ToolKit

The PowerShell App Deployment Toolkit (PSAppDeployToolkit or PSADT) is an open-source framework designed to simplify and standardize software deployment tasks in Windows environments. Built on PowerShell, it offers a rich set of functions that streamline complex deployment scenarios, making it a valuable tool for IT professionals managing application installations, updates, and removals.

### Concepts:

1. **ADTSession Object:** Stores user inputs, settings, and deployment status to ensure a consistent and controlled deployment process.
2. **Predefined Functions:** Offers built-in PowerShell functions to handle tasks like checking prerequisites, closing apps, and performing silent installs.
3. **Exit Codes:** Uses standardized exit codes to clearly indicate success, failure, or specific errors, making troubleshooting easier.
4. **Deployment Structure:** Organizes scripts and files in a clear folder hierarchy for better manageability and consistency.
5. **Deployment Modes:** Supports **Interactive**, **Silent**, and **Non-Interactive** modes, giving flexibility in how installations are presented to users.

### Usage:

1. **Deploying Applications:** PSADT wraps around standard installers (MSI/EXE) to add features like silent install and prerequisite checks.
2. **Scripting Deployment Logic:** Lets you script tasks like folder creation, user setting changes, and install command execution.
3. **Using Functions:** Provides ready-to-use functions for common tasks like checking prerequisites and closing running apps.
4. **Running Scripts:** Deployment scripts can be executed directly in PowerShell or via the Deploy-Application.exe wrapper.
5. **Utilizing ADTSession:** Allows storage and retrieval of deployment data, enabling smarter logic and better error handling

### **Benefits of Using AppDeployToolkitConfig.xml:**

- Centralized Configuration: Configure settings once for all scripts.
- Consistency: Ensure consistent UI and behavior across deployments.
- Customization: Tailor the deployment process to your specific needs.
- Simplified Scripting: Reduce the amount of code needed for each deployment.

## PSADT Folder Structure

The PSADT uses a specific folder structure to organize deployment packages and their associated files. Here's a breakdown of the key folders:

**Toolkit:** Contains the PSAAppDeployToolkit framework itself, including the necessary files and folder for creating deployment packages.

- **Examples:** Holds example deployments for various applications, such as Adobe Reader and Microsoft Office 2013.
- **Files:** Where you store the installation files for the application you are deploying (e.g., the MSI file for Google Chrome).
- **SupportFiles:** An optional folder to store files that support the deployment, such as configuration files or scripts.
- **Deploy-Application.exe:** The executable file used to execute the deployment script.
- **Deploy-Application.ps1:** The PowerShell script that contains the logic for deploying the application.
- **Strings:** Contain the UI messages for the deployment process, including English and other language versions.
- **Images:** Holds images used in the deployment UI, such as application logos or icons.
- **Configuration:** contains configuration files, including the main configuration file (Deploy-configuration.ps1).
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```
Invoke-AppDeployToolkit.ps1 # F
Invoke-AppDeployToolkit.exe # F

Files # F
SupportFiles # S

PSAppDeployToolkit # F
PSAppDeployToolkit.psd1 # F
PSAppDeployToolkit.psm1 # F

PSAppDeployToolkit.Extensions # F
PSAppDeployToolkit.Extensions.psd1
PSAppDeployToolkit.Extensions.psm1

Assets
AppIcon.png # 7
Banner.Classic.png # 7

Config
config.psd1 # F

Strings
└─<LanguageCode>
    strings.psd1 # F
strings.psd1
```

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# Template Scripts for Application Deployment

The PowerShell Application Deployment Toolkit (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.

Here's a more detailed breakdown:

## 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 and user interface elements 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.
- It's located in the `C:\AdminStudio Shared\PowerShellTemplate` directory.
- You can edit the script in the Windows PowerShell ISE application to customize it for your specific needs.
- The script either performs an "install" or "uninstall" deployment type.
- The "install" deployment type is broken down into three sections: Pre-Install, Install, and Post-Install.
- The script refers to 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.
- To create a deployment using the PSADT v3 compatible template, you can use the command `New-ADTTemplate -Destination C:\Temp\MyAppDeployment -Name "MyOldAppDeployment" -Version 3`.
- To create a deployment using the PSADT v4 native template, you can use the command `New-ADTTemplate -Destination C:\Temp\MyAppDeployment -Name "MyAppDeployment"`.

## 4. Additional Resources:

- PSAppDeployToolkit's [GitHub Releases](#) page includes downloadable templates for creating new deployments, such as `PSAppDeployToolkit_Template_v3.zip` and `PSAppDeployToolkit_Template_v4.zip`.
- You can download these templates and extract their contents to a folder on your computer.

## 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.
- You can use the `Deploy-Application.ps1` script as a foundation for creating more complex deployment scenarios.

The **PSAppDeployToolkit (PSADT)** simplifies software deployment by providing customizable **template scripts**, like `Deploy-Application.ps1`, which help standardize and automate installations and uninstalls. These templates use built-in functions for tasks like checking prerequisites, managing user prompts, and running installers silently. You can edit the script in PowerShell ISE, dividing it into sections like **Pre-Install**, **Install**, and **Post-Install**. PSADT supports creating new deployments using versioned templates via the `New-ADTTemplate` command, and downloadable templates are available on GitHub. The scripts can be tailored to meet specific deployment needs, making them powerful tools for enterprise IT environments.

### Commands For Installation / Uninstallation

1. `Invoke-AppDeployToolkit.ps1/32 -Deployment Type Uninstall -DeployMode Silent`
2. `Invoke-AppDeployToolkit.ps1/32 -Deployment Type Uninstall -DeployMode Silent`

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