**PowerShell App Deployment Toolkit (PSADT):**  
The **PowerShell App Deployment Toolkit (PSADT)** is a powerful open-source framework designed to simplify the process of deploying applications in enterprise environments using PowerShell.

**Key Configuration Steps:**

* Download and Extract the toolkit.
* Locate the Configuration File (AppDeployToolkitConfig.xml).
* Edit Configuration: Set admin rights, log paths, and file paths. Customize UI banners, logos, and icons. Define MSI installation parameters. Set UI options like notifications and exit codes. Add/edit UI messages.
* Save and Apply changes to make them active for all deployment scripts. Benefits of Using AppDeployToolkitConfig.xml:Centralized settings for all scripts. Consistent behavior across deployments. Tailored deployment processes. Reduced code redundancy.

**THE PSApplicationDeployToolkit(PSADT):**

This document explains the PowerShell App Deployment Toolkit (PSAppDeployToolkit or PSADT), a scripting framework for simplifying application deployments in enterprises.

**Overview:**

PSADT offers a structured way to deploy applications using PowerShell. It includes UI elements, pre-defined functions, and an ADTSession object for managing deployment data. The goal is to simplify deployment, ensure consistency, and increase success rates.---**Platform Values:**

Simplifies Complex Scripting:

Automates and eases script creation for IT professionals.

**Consistent User Experience:**

Standardizes the UI across deployments. Improved Deployment Success: Reduces errors and increases success rates.

**Open-Source:**

Freely available and community-supported.

**Key Concepts:**

ADTSession Object: Stores user inputs, configurations, and deployment states.

Pre-defined Functions: Common deployment tasks like checking prerequisites and silent installs.

**Usage:**

Deploying Applications: Handles MSI and executable setups with validation and silent install options. Scripting Deployment Logic: Controls deployment with custom PowerShell scripts. Using Functions: Leverages built-in functions for common tasks. Running Scripts: Executes scripts via PowerShell or deployapplication.exe.Utilizing ADTSession: Manages deployment data for better logic and error handling.

**The PowerShell Application Development Toolkit and Templates**

1. **Understanding PSAppDeployToolkit and Templates**  
   The **PSAppDeployToolkit** simplifies enterprise application deployments by offering pre-defined functions and customizable script templates such as Deploy-Application.ps1.
2. **Using the Template Script (Deploy-Application.ps1)**  
   This script is structured to support both **installation and uninstallation** tasks. It's organized into three main sections:
   * **Pre-Install**
   * **Install**
   * **Post-Install**  
     You can edit each section to match your specific deployment requirements.
3. **Creating a New Deployment Using Templates**  
   You can quickly generate new deployment scripts using built-in templates (version 3 or 4) with commands like:
4. **Additional Resources**  
   Deployment templates are available on the toolkit’s [**GitHub Releases page**](https://github.com/PSAppDeployToolkit/PSAppDeployToolkit/releases) for download and use.
5. **Customizing the Template Script**  
   The Deploy-Application.ps1 script is highly customizable. You can adjust:
   * Script **parameters**
   * Deployment **commands**
   * User interface (**UI**) elements

**The PowerShell App Deployment Toolkit**

**1. Toolkit:** Contains the **core PSAppDeployToolkit framework** and essential files required to create and execute deployment packages.

**2. Examples:** Includes **sample deployment scripts** for applications like **Adobe Reader** and **Microsoft Office**—useful as references for creating your own deployments.

**3. Files:** This folder holds the **actual installation files** for the software being deployed (e.g., .MSI, .EXE, or .MSP).

**4. SupportFiles *(Optional)*:** Stores **additional scripts or files** that support the deployment process—such as custom checks, logs, or third-party utilities.

**5. Deploy-Application.exe:** A **launcher executable** that initiates the main PowerShell deployment script (Deploy-Application.ps1).

**6. Deploy-Application.ps1:** The **main PowerShell script** where all the deployment logic resides. It manages the install/uninstall process and user interactions.

**7. Strings:** Contains **language and UI message resources**, allowing for localization and consistent messaging during deployments.

**8. Images:** Stores **icons and visual assets** used in the deployment UI (e.g., branding or prompts shown to users).

**9. Configuration:** Includes configuration files like Deploy-Configuration.psd1 that define global **deployment settings**, such as logging paths, timeouts, or UI preferences.