

The PSAppDeployToolkit (PSADT) is a PowerShell-based framework that simplifies application deployment for enterprises. It provides a structured approach to scripting and deploying applications, offering features like user interface elements, pre-defined functions, and an ADT Session object to store deployment information. This toolkit enhances application deployment by providing a consistent user experience, reducing complex scripting, and improving deployment success rates. [1, 2, 3, 4]

Here's a breakdown of the platform value, concepts, and usage:

Platform Value:

- **Simplifies Complex Scripting:** PSADT automates and streamlines the process of creating deployment scripts, making it easier for IT professionals to manage application deployments.
- **Consistent User Experience:** The toolkit provides a standardized user interface, ensuring a consistent experience for end-users during deployments.
- **Improved Deployment Success:** By simplifying scripting and providing a robust framework, PSADT reduces errors and improves the overall success rate of application deployments.
- **Open-Source and Contributed:** PSADT is an open-source project, meaning it's freely available and can be extended and improved by the community. [1, 4]

Concepts:

- **ADTSession Object:** This object stores deployment-related information, such as user inputs, configuration settings, and deployment status, allowing for a more controlled and predictable deployment process. [1, 3, 3]
- **Pre-defined Functions:** PSADT offers a set of well-defined functions for common application deployment tasks, like validating prerequisites, ensuring application closure, and managing silent installations. [3, 3, 5, 5]
- **Exit Codes:** PSADT uses pre-defined exit codes to indicate the success or failure of a deployment, enabling easy monitoring and troubleshooting. [3, 3]
- **Deployment Structure:** PSADT uses a specific folder structure to organize the deployment scripts and related files, promoting a more organized and maintainable deployment process. [6, 6, 7]
- **Deployment Modes:** PSADT supports interactive, silent, and non-interactive deployment modes, allowing for flexibility in how deployments are executed. [8, 8]

Usage:

- **Deploying Applications:** PSADT can be used to deploy applications by encapsulating standard MSI or setup executables, providing enhanced capabilities like prerequisite validation and silent installation. [5]
- **Scripting Deployment Logic:** PSADT allows you to write scripts that control the deployment process, including tasks like creating folders, managing user settings, and running installation commands. [4, 9]
- **Using Functions:** You can use the various functions provided by PSADT to perform common deployment tasks, such as validating prerequisites, closing in-use applications, and capturing settings. [3, 5]
- **Running Scripts:** You can execute deployment scripts using PowerShell, either directly or through the provided deployapplication.exe executable. [10]
- **Utilizing ADTSession:** You can leverage the ADTSession object to store and retrieve deployment-related information, enabling more sophisticated deployment logic and error handling. [3]

In essence, PSADT provides a powerful and flexible framework for deploying applications in enterprise environments, offering a more streamlined, consistent, and reliable deployment process compared to traditional scripting methods. [1, 4]