

# **PowerShell App Deployment Tool-Kit**

The PowerShell Deployment Tool-Kit ( PSDT) is a set of tool and scripts that helps automate the deployment of a software application, infrastructure, and configurations using PowerShell.

## **Key Features :**

1. Automates repetitive tasks
2. Streamlines deployment Processes.
3. Provides flexibility and customization
4. Integrates with existing PowerShell Scripts and workflows.

## **Use :**

1. Software installation and deployment
2. Configuration management
3. Infrastructure provisioning
4. Automated testing and validation.

## **PowerShell App Deployment toolkit Steps:**

Download and Extract the PSADT package and familiarize yourself with PowerShell Scripting.

Steps:

- **Customize the script** : Modify the `deploy-Application.ps1` script to fit with your applications specific needs.
- **Configure the application**: Update the `Application.xml` file your applications details, such as name, version, and installation parameters.
- **Prepare the Installation Files**: Gather all necessary installation files, such as a executable, configuration files, and dependencies.
- **Test the deployment**: Run the `Deploy-Applications.ps1` script is testing mode to verify the deployment process.
- **Deploy the Application**: Execute the `Deploy-Application.ps1` script to deploy the application to target machines.

## Configuring PowerShell App Deployment Toolkit (PSADT)\*

To configure PSADT, you'll need to modify the ``Deploy-Application.ps1`` script and the ``AppDeployToolkitConfig.xml`` file.

### AppDeployToolkitConfig.xml Configuration:

1. General Settings: Configure general settings like logging, UI, and installation options.
2. Installation Settings: Specify installation parameters like install directory, executable names, and silent installation switches.
3. Logging Settings: Configure logging options like log file location, verbosity, and retention.

## Deploy-Application.ps1 Configuration:

1. Application Details: Update application details like name, version, and publisher.
2. Installation Functions: Customize installation functions like `Execute-Process` and `Execute-MSI`.
3. Error Handling: Implement error handling and logging mechanisms.

## Key Configuration Options:

1. Installation UI: Choose between different UI options like Full, Silent, or Basic.
2. Logging Level: Set the logging level to control the amount of log output.
3. Installation Timeout: Configure timeout settings for installation processes.

# Folder Structure in PowerShell App Deploy Toolkit

The PowerShell App Deployment Toolkit (PSADT) typically follows this folder structure: AppDeployToolkit/



## **Key Folders and Files:**

1. AppDeployToolkitConfig.xml: Configuration file for PSADT.
2. Deploy-Application.ps1: Main deployment script.
3. Files/: Folder for application files and dependencies.
4. SupportFiles/: Folder for additional support files, like logging configurations.