

In PowerShell App Deployment Toolkit (PSADT), MSI (Windows Installer) and MSP (patch) file logging can be configured through various parameters within the Execute-MSI and Execute-MSP functions. These functions handle the complexities of MSI/MSP deployment, including logging, error handling, and user interaction. [1, 2, 3]

Here's a breakdown of how to enable and configure MSI/MSP logging in PSADT:

1. Logging Options:

- -LogName: Specifies the name of the log file to be created. If the name does not end with .log, it will be automatically appended. [4, 4]
- -LogPath: Specifies the path where the log file will be created. If not specified, it defaults to the standard PSADT log directory. [4, 4, 5, 5, 6, 7]
- -LogVerbosity: Controls the level of detail in the log file (e.g., verbose, informational, error). [4, 4, 8, 8, 9]

2. Using Execute-MSI for MSI Installation: [10]

```
Execute-MSI -Action Install -Path "C:\MyApps\MyPackage.msi" -LogName  
"MyPackageInstallLog" -LogVerbosity Verbose
```

3. Using Execute-MSI for MSP Patching: [11]

```
Execute-MSI -Action Patch -Path "C:\MyApps\MyPatch.msp" -LogName "MyPatchLog"
```

4. Using Execute-MSI for MSI Uninstallation: [6, 12]

```
Execute-MSI -Action Uninstall -Path "[PRODUCTCODE]" -LogName  
"MyPackageUninstallLog"
```

5. Customizing Log File Location:

- **Configuring \$configToolkitLogDir:** You can set the \$configToolkitLogDir variable in the AppDeployToolkitConfig.xml file to specify a custom location for all logs.
- **Modifying Deploy-Application.ps1:** You can also set \$configToolkitLogDir early in the Deploy-Application.ps1 script, or modify AppDeployToolkitMain.ps1 to set the variable. [5, 5, 11, 13]

6. Important Considerations:

- **Log File Location:** The default log directory is typically under the PSADT working directory, so you may want to configure a more suitable location, such as a network share or a dedicated log folder. [5, 5]
- **Log Level:** Use -LogVerbosity to control the amount of detail in the log. Verbose provides extensive information, while Error only logs errors. [4, 4, 8, 8]
- **Error Handling:** The Execute-MSI and Execute-MSP functions can be configured to continue on errors (e.g., -ContinueOnError \$true) or fail on errors (e.g., -ContinueOnError \$false). Logging can help you troubleshoot errors that occur during MSI/MSP deployment. [2, 2, 4, 14]

By using these parameters and techniques, you can effectively log MSI and MSP installations and uninstallations within PSADT, enabling you to troubleshoot issues and monitor the deployment process. [1, 2, 5]