BATCH INFORMATION:

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* Batch name: WiproNGA\_DWS\_B5\_25VID2550
* Batch ID: 25VID2550
* Assignment date: 13/08/2025

PROCESS CHECK and DELETE:

* **What it does:** Checks if a program/process is running and can stop it if needed.
* **Think of it like:** “Is Chrome open? If yes, close it.”

**Syntax & Example:**

# Check if a process is running

If (Get-Process -Name "notepad" -ErrorAction SilentlyContinue) {

Write-Output "Notepad is running!"

# Stop the process

Stop-Process -Name "notepad" -Force

}

**Use case:** Before installing software, make sure the program is not running.

LOOP BASED SCRIPTING OPERATIONS:

* **What it does:** Repeats tasks multiple times automatically.
* **Think of it like:** “Do this task for every user or every file in a folder.”

**Example: Loop through files in a folder**

$files = Get-ChildItem "C:\Temp"

foreach ($file in $files) {

Write-Output "Processing $($file.Name)"

# Example: delete file

Remove-Item $file.FullName

}

**Example: Loop 1 to 5**

for ($i=1; $i -le 5; $i++) {

Write-Output "This is iteration $i"

}

SET-INI VALUE:

* **What it does:** Reads or modifies .ini configuration files.
* **Think of it like:** Changing settings in a config file programmatically.

**Syntax & Example using PSADT:**

(Set-IniValue -Path "C:\Tools\app.ini" -Section "Settings" -Key "Theme" -Value "Dark")

**Use case:** Update software settings automatically without opening the program.

TOOKIT LOGGING LOCATION AND CONFIGURATION:

* **PSADT keeps logs** of every action it performs.
* **Default location:**
* C:\Windows\Temp\<AppName>\_Deploy.log
* **How to configure:** In the Deploy-Application.ps1 script, you can set the log folder:

($DeployAppLogFolder = "C:\Logs\MyApp")

* All commands will write logs here for troubleshooting.

MSI/MSP LOGGING:

* **What it does:** Records detailed logs when installing .msi or .msp files.
* **Why:** Helps check why an install failed.

**Syntax:**

# Example with Execute-MSI

(Execute-MSI -Action Install -Path "C:\Tools\App.msi" -Parameters "/qn /l\*v C:\Logs\AppInstall.log")

* /l\*v → full verbose logging.
* C:\Logs\AppInstall.log → log file location.

INDIVIDUAL COMMAND LOGGING WITHIN SCRIPT:

* **What it does:** Logs each command’s action in PSADT script.
* **Syntax Example:**

(Write-Log -Message "Starting installation of Chrome" -Severity 1

Execute-Process -Path "C:\Tools\ChromeSetup.exe"

Write-Log -Message "Chrome installation completed" -Severity 1)

* Helps track exactly which step succeeded or failed.

HOW TO CATCH RETURN CODES IN POWERSHELL:

* **What it does:** Checks if a program ran successfully or failed.
* **Think of it like:** “Did this install work? Yes or No.”

**Example:**

(# Run a program

$process = Start-Process -FilePath "C:\Tools\Setup.exe" -Wait -PassThru

# Check exit code

if ($process.ExitCode -eq 0) {

Write-Output "Installation successful"

} else {

Write-Output "Installation failed with code $($process.ExitCode)"

})

* Exit code 0 usually means success; anything else is an error.