

PowerShell Debugging



Jaap Brasser



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Jaap Brasser

Tweets



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Codes



jaapbrasser

Works

Sr. Developer Advocate

Does

Blogger, Speaker, Coder

Likes

Cloud Automation & Security



Agenda

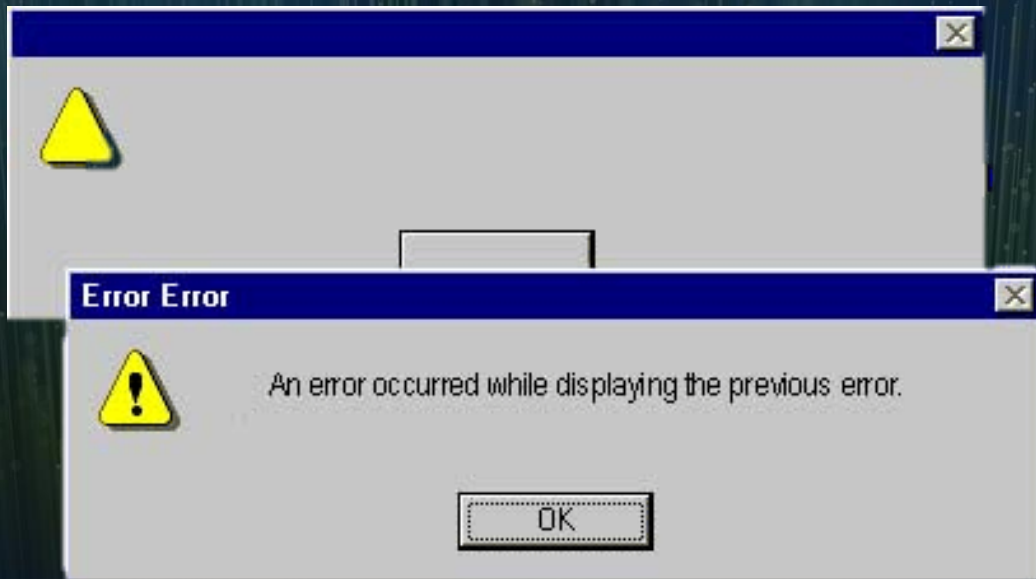
Error Handling

Debugging

Demo

Q&A

Error Handling





**Terminating
errors**



**Try – Catch –
Finally**



\$Error



**Handling
Errors**

Preferences

```
PS C:\Users\Jaap> ls variable:*preference
```

Name	Value
----	-----
ConfirmPreference	High
DebugPreference	SilentlyCont
ErrorActionPreference	Continue
ProgressPreference	Continue
VerbosePreference	SilentlyCont
WarningPreference	Continue
InformationPreference	SilentlyCont
WhatIfPreference	False

Tools at our disposal



\$?



Trap {}



\$LastExitCode



-ErrorAction
Stop, Break



-ErrorVariable

```
Function Invoke-Pikachu {  
    $Pikachu = 'FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF'  
    $Song     = 'SUQzAwAAAAAfdlRJVdIAAAAIAAAUG9rZW1vb1R'  
    [System.IO.File]::WriteAllBytes(  
        ($MP3Path = "$(System.IO.Path)::GetTempFile  
        [convert]::FromBase64String($Song)  
    )  
    foreach ($Line in @($Pikachu -split '  
        [regex]::Matches($line,'(.)\1*')  
        Write-Host -Object (' '*$  
    }  
    Write-Host ''  
  
}  
  
# Open the Pokemon theme song, mediapipe  
# iex (New-Object Net.WebClient).Download  
$script = '$player = New-Object -ComObject  
(' $player.Open("{0}")' -f $MP3Path),  
'$player' -join "`r`n"  
  
$runspace = [RunspaceFactory]::CreateRunspace()  
$runspace.ApartmentState = 'MTA'  
$bgPowerShell = [PowerShell]::Create()  
$bgPowerShell.Runspace = $runspace
```


Debugging in PowerShell



VS Code



Set-PSDebug



Wait-Debugger



Set-PSBreakPoint



Attach Debugger

Demo Time



Debugging & PowerShell

01

Using Variables

02

Error Trapping

03

Debugging



Questions?