Getting Started with the Debugger

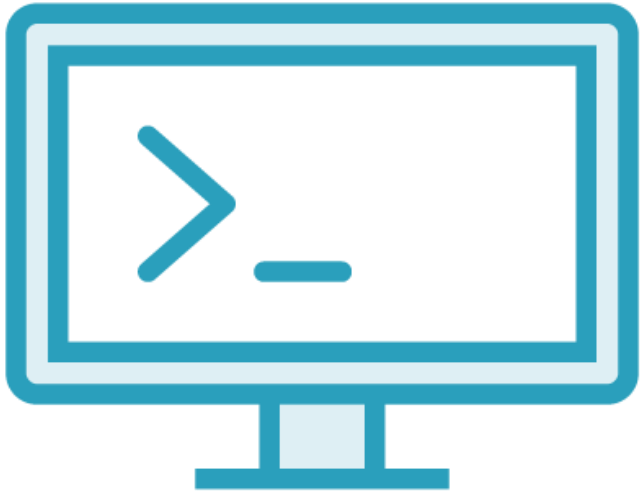**Josh Duffney**
DEVOPS ENGINEER

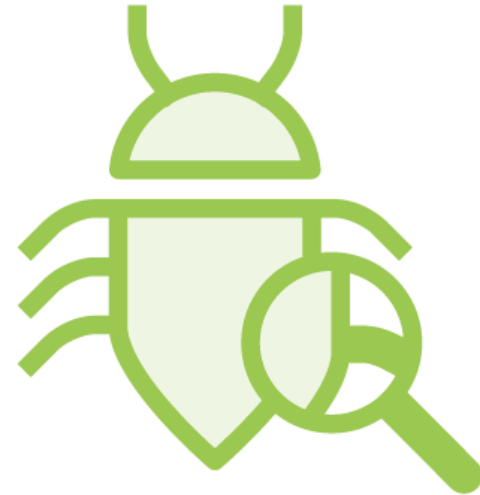@joshduffney   http://duffney.io/

Ways to Debug PowerShell

Command Line Debugger

Visual Studio Code Debugger

Breakpoints

A point in a program where the debugger is intentionally signaled to suspend execution

Types of Breakpoints

Line breakpoints

Function breakpoints

Conditional breakpoints

Tracepoints

Variable Groups

Auto

Local

Script

Global

Watch

An expression or variable whose current value you wish to track during the debugging session

Callstack

- A data structure that keeps track of the program's state

- Using breakpoints allows you to interact with different stack frames

Debugging Actions

Keyboard Shortcut	Action
F5	Continue
F10	Step Over
F11	Step Into
Shift + F11	Step Out
Ctrl + Shift + F5	Restart
Shift + F5	Stop

Debug Configuration Options for PowerShell

PowerShell Launch (current file)

PowerShell Attach to Host Process

PowerShell Interactive session

PowerShell Script Configuration

Demo

Debugger Navigation

Breakpoints
- Line, Function, Conditional & Tracepoints

Debugger Actions

Watch

Callstack

Summary

Types of Debuggers for PowerShell

Introduction to the VS Code Debugger

Breakpoints

- Line, Function, Conditional Breakpoints
- Tracepoints

Variable Scopes

Watchers

Callstack

Debugger Actions