# INTRODUCTION TO PESTER

- **PowerShell testing framework**

- **Open source project**

- **Used for test driven development**

- **Used for CI/CD pipelines**

- **Domain Specific Language (DSL)**

# WHAT IS PESTER?

- Write tests first
  - "When the code runs it should do X."
  - Write code to pass the test
- Validate design specification
- Keeps you organized
- "Did I break anything while updating?"

# TEST DRIVEN DEVELOPMENT

- Unit tests

- Integration tests

- Acceptance tests

- Infrastructure tests

# TESTING CATEGORIES

- **Install-Module Pester –force**
  - **Need to overwrite pre-installed version**
  - **Once installed, use Update-Module to keep up to date**
- **https://pester.dev/**

# INSTALLATION

- **Describe**
  - **Name**
  - **Tag**
- **Context**
- **Assertion**
  - **IT | Should**
- **Mocking**

# PESTER CONCEPTS

- **Test code paths**
- **Don't validate that Get-Process works**
  - **Validate your code is calling it correctly**
- **Tests should be independent**
  - **Mocked environment**
  - **Test drives**
- **Tests should run quickly**

# UNIT TESTING

# DEMOS