Dependencies, how to make them evident

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Agenda

- Devs to OPS – You're doing it wrong!!!
- Basic of TDD
- Dependencies for better code
- Arrange, Act & Assert
- Demos
- Comments

Dev to Ops – You're doing it wrong!

- Why are we (OPS) having a hard time getting "it"?

- Why bother then?

Back to basics

- ## What is a unit of code?
  - An isolated collection of code. A unit can be tested without loading or running the entire app.

- ## What is a test?
  - Code whose purpose is to verify other code.

- ## What is a testcase?
  - A set of inputs, one or more functional calls and an assertion about the expected output, which either passes or fails

- ## What is a unit test
  - An assertion about a unit of code

What makes for a good test?

- Is the assertion verifiable?

- Is the test coherent?

- Are the inputs and outputs precisely specified?

- Is the test readable?

- Is it maintainable?

- Are error cases considered?

- Is it providing value, or is it more trouble than it's worth?

TDD demo – the right way

```
 #Function Limited to INT32
function Get-LargestNumber ([int32[]]$targetArray) {...}

 #Function Limited to INT64
function Get-LargestNumberRefactored ([int64[]]$targetArray) {...}
 #endregion
```

Demo

- **Create AzureAD users from a CSV/XML File**

- **Arrange – Act – Assert**

- **Dependencies**

Summary

- Pester is definitely useful from an OPS perspective
- It can help OPS validate if input is precisely specified.
- Dependencies helps recognizing the assumptions we've made.
- If you're a toolmaker you need to understand TDD/BDD
- Make sure it adds value
- Have fun Learning Pester!

Next Steps

- Now: 15 min break

- Grab a coffee
- Stay here to enjoy next presentation
- Change track and switch to another room

- Ask me questions or meet me in a breakout session room afterwards

Questions?

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