

Implementing Your First Infrastructure Test with Pester

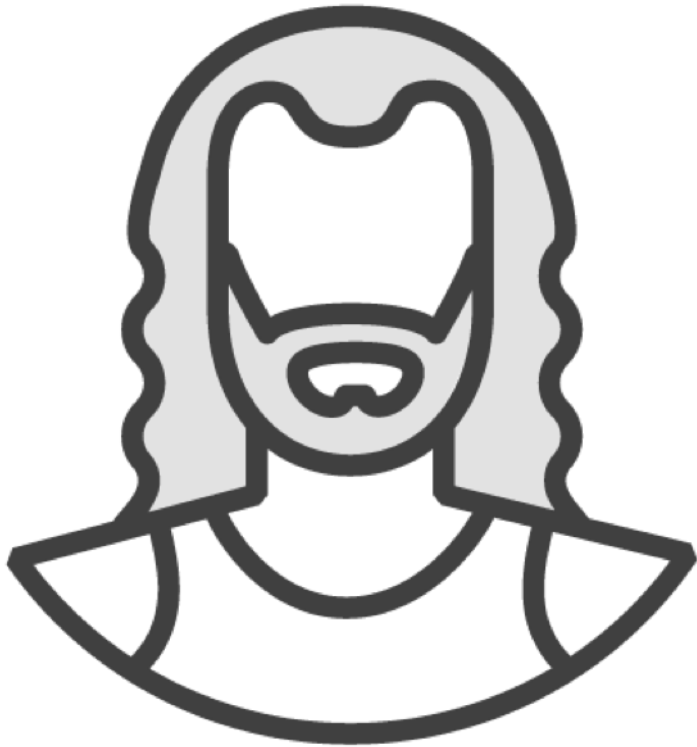


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Following George's progress

Check-ins once per module

Building tests for George's script



Coordinating Configuration Items

Configuration items are known good states

How to manage lots of configuration items

Keep configuration data separate from tests

Build a structured document to easily add and retrieve configuration items



Demo



Create a JSON file to house configuration items

Figure out the best way to structure the JSON

Must be self-explanatory and easy to manage



Testing Infrastructure Changes



Infrastructure Changes vs. Infrastructure Code

Infrastructure Changes

Create an Active Directory user with the
GUI

Create an Azure VM using the Azure
Portal

Using X tool to change anything

Infrastructure Code

New-AdUser

New-AzureRmVM

Using a tool *you* built



Demo



Create an Active Directory user with Active Directory Users and Computers (ADUC)

Build a test to ensure that user is exactly how we expected

Not the core focus of the course



Testing Infrastructure Code



Infrastructure Code

Any code that changes *anything* in an environment.*

* Adam Bertram's definition



Demo



Create an Active Directory user with New-AdUser and create a home folder.

Build a test to ensure that user is exactly how we expected

The core focus of the course



George's Progress



Ongoing Script
Construction

VM can be created

VHD can be created



Demo



Defining VM creation expected values
Adding configuration items to JSON file



Demo



Building infrastructure tests:

- Validate JSON changes
- Validate VM creation attributes



Summary



Built the configuration item JSON file

Difference between general infrastructure *changes* and infrastructure *code*

Started testing George's script

- VM creation

