

David O'Brien

Using Ansible for your Windows Configuration Management

# Introduction

- Senior DevOps Engineer
  - Monitor Consulting
    - Cloud / Virtualization / Automation
- German – Scottish
  - From Melbourne / Australia
- Twitter: @david\_obrien
- <http://www.david-obrien.net>
- PowerShell / CDM MVP
- Author for PowerShell Magazine
- Github: <https://github.com/davidobrien1985>



# Agenda

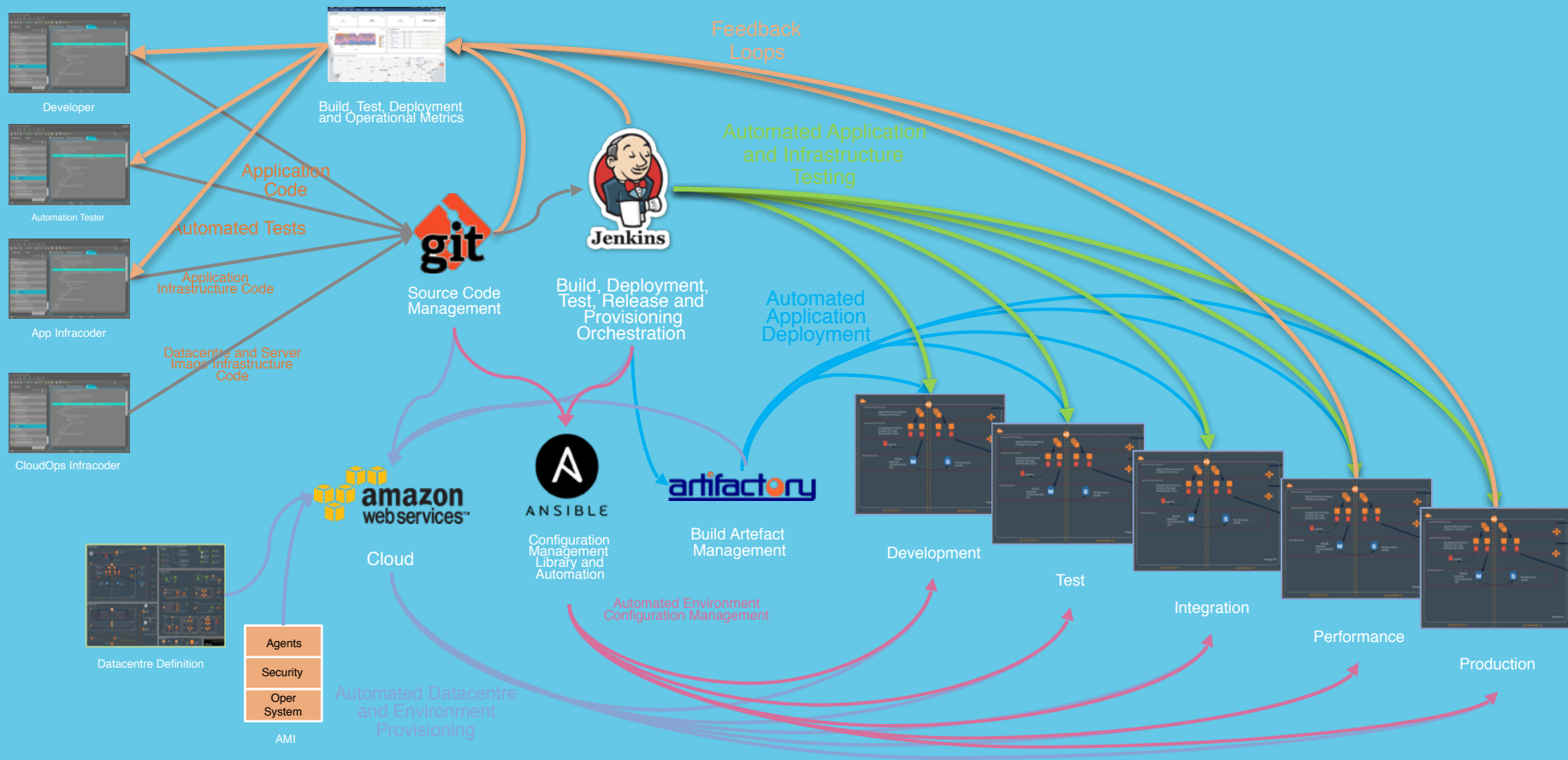
- What is DevOps (not)?
- Why is xPlatform important?
  - Who does it?
- Ansible
- How to execute PowerShell from Linux
- How to use PowerShell in Ansible
- How to write Ansible modules

# What is DevOps (not)?

- It's a mindset that gets applied to your team(s).
- It helps making your teams more agile.
- Not a product!!!!!!!!!!!!!! (you don't engineer DevOps)
- Not a silver bullet!

# Why is xPlatform important?

- Why is it hard?
  - Linux  $\neq$  Windows and Windows  $\neq$  Linux
- Why is it important?
  - Environments today are very heterogeneous
  - Applications have frontends on Windows and backends on Linux
- One tool to rule them all



# Ansible

- Configuration Management Tool
- Python
- Management Host – Linux
- Target Hosts
  - Linux and Windows
  - Modules for all sorts of Cloud Providers available
- Agentless
  - Pull mode still possible
- YAML

---

- name: Create temporary deploy Directory
  - win\_file:
    - path: "C:\\\\deploy"
    - state: "directory"
- name: Download dotNet 4\_5 Full Download.exe
  - win\_get\_url:
    - dest: "C:\\\\deploy\\\\dotNet 4\_5 Full Download.exe"
    - url: <https://webserver/dotnet.exe>
    - force: no
- name: Install dotNet 4.5
  - win\_dotnet:
    - src: "C:\\\\deploy\\\\dotNet 4\_5 Full Download.exe"
    - version: '4'



# DEMO

# Thank you!

```
PS C:\Users\vagrant> class speaker
{
    [string]$firstname
    [string]$lastname
    [int]$age
    [string]$email
    [string]$url
    [string]$twitter

    speaker (
        [string]$firstname,
        [string]$lastname,
        [int]$age,
        [string]$email,
        [string]$url,
        [string]$twitter
    )
    {
        $this.firstname = $firstname
        $this.lastname = $lastname
        $this.age = $age
        $this.email = $email
        $this.url = $url
        $this.twitter = $twitter
    }
}

PS C:\Users\vagrant> [speaker]::new('David','O'Brien',30,'me@david-obrien.net','http://www.david-obrien.net','@david_obrien')

firstname : David
lastname  : O'Brien
age       : 30
email     : me@david-obrien.net
url       : http://www.david-obrien.net
twitter   : @david_obrien
```