### David O'Brien

PowerShell on AWS



#### Introduction

- Senior DevOps Engineer
  - Monitor Consulting
    - Cloud / Virtualization / Automation
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  - From Melbourne / Australia
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- http://www.david-obrien.net
- PowerShell / CDM MVP
- Author for PowerShell Magazine
- Github: <a href="https://github.com/davidobrien1985">https://github.com/davidobrien1985</a>







# Agenda

- Intro to AWS
- Getting the AWS PowerShell module
- What can we automate?
- How can we use PowerShell on AWS



#### Intro to AWS

- Amazon Web Services (AWS), a subsidiary of Amazon.com, is a cloud-focused service provider with a very pure vision of highly automated, cost-effective IT capabilities, delivered in a flexible, on-demand manner.
- over 10 times more cloud IaaS compute capacity in use than the aggregate total of the other 14 providers
- AWS leader of Gartner MQ for IaaS



# Getting the AWS PowerShell module

- PowerShell PackageManagement
- Download from AWS
- Get-AWSPowerShellVersion -ListServiceVersionInfo -Verbose



#### What can we automa

Azure has 756

- 1666 PowerShell cmdlets
- Non-representative study:
  - Most commonly automated tasks on AWS
    - Creating, editing, launching VPCs
    - **Executing CloudFormation**

Demos

ervice
WS Cloud HSM
WS CloudFormation
WS CloudTrail
WS CodeCommit
WS CodeDeploy
WS CodePipeline
WS Config
WS Data Pipeline
WS Device Farm WS Direct Connect
WS Direct Connect
WS Directory Service WS Elastic Beanstalk WS Identity and Access
WS Elastic Beanstalk
WS Identity and Access
WS Import/Export
WS IoT
WS Key Management Servi
WS Marketplace Commerce
WS OpsWorks
WS Security Token Servi
WS Storage Gateway WS Support API
WS Support API
WS WAF
mazon API Gateway
mazon CloudFront
mazon CloudSearch
mazon CloudSearchDomair
mazon CloudWatch
mazon CloudWatch Logs
mazon Cognito Identity
mazon DynamoDB
mazon EC2 Container Rec
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mazon FlastiCache
mazon Elastic Compute ( mazon Elastic File Syst mazon Elastic MapReduce mazon Elastic Transcode mazon Elasticsearch
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mazon Elasticsearch
mazon Inspector
mazon Kinesis
mazon Kinesis Firehose
mazon Lambda
mazon Machine Learning
mazon Redshift
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2015-02 2015-10

2012-09 2015-01 2015-08 2013-17 2015-08 2014-12 2012-17 2014-10 2013-04

2010-17 2012-11 2006-03 2014-11 2015-04 2012-0

# **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',"0'Brien",30,'me@david-obrien.net','http://www.david-obrien.net','@david_obrien')
firstname : David
lastname : O'Brien
          : 30
email
         : me@david-obrien.net
         : http://www.david-obrien.net
twitter : @david_obrien
```

