Global Azure Bootcamp

Cloud Deployments:
Azure Resource Manager Templates Made Easy

Presented by
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Agenda

- ARM Intro Demo (Deploy An Entire Project And Setup Continuous Delivery In Less Than 10 Minutes)
- What Are Azure Resource Manager (ARM) Templates?
- Why Use ARM Templates?
- Platform & Tools
- ARM Template Components and Demo
- Planning Lifecycle For ARM Templates
- Resources For Building Templates
- Deployment Options
- Survey
- QA

DEMO

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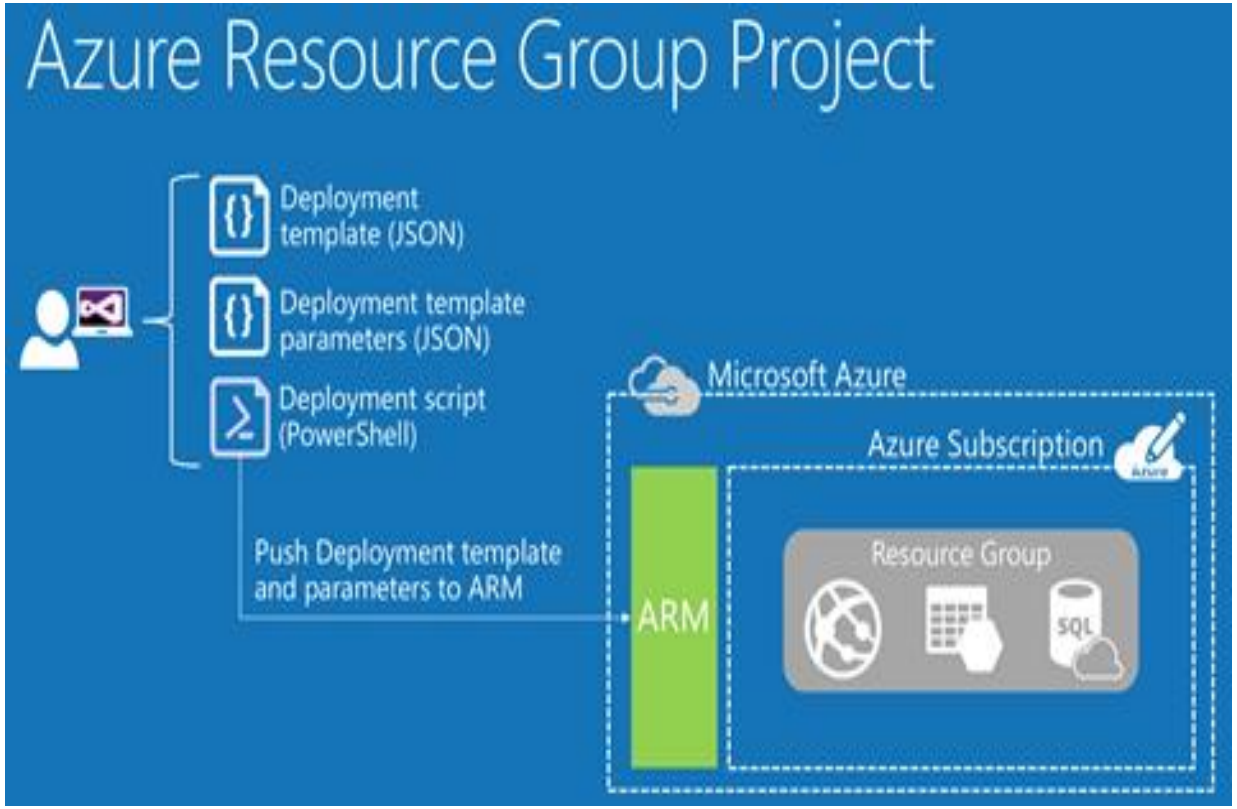
What is a Azure Resource Manager (ARM) Template?

- First Announced At Build 2014
- Idempotent
- Declarative
- JSON Template Language
- Multiple Deployment Methods
- Works On Azure / Azure Stack



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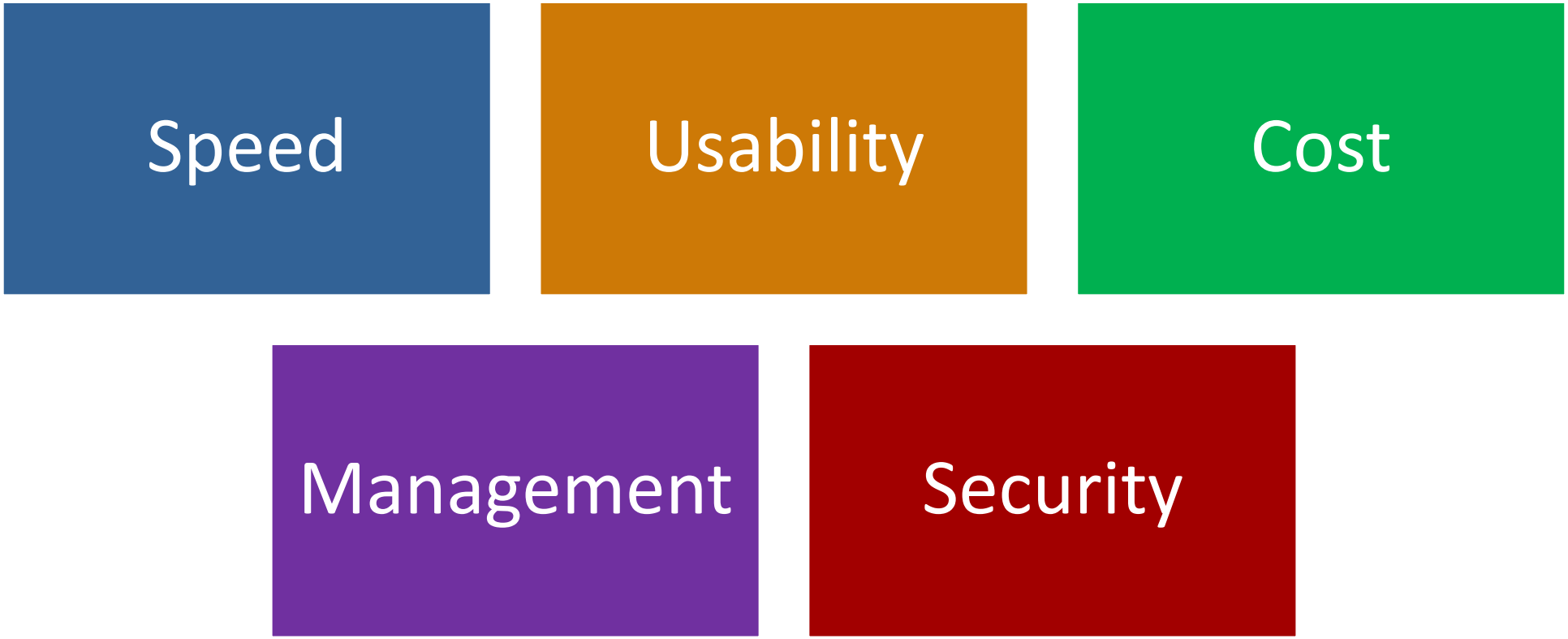
Why ARM Templates?



Why ARM Templates?

Speed

- Reduce infrastructure delivery time from months to minutes
- Prevent deletion/modification of resources using resources locks
- Overlay infrastructure and configuration with a single file

Why ARM Templates?

Usability

- Declaratively provision using templates across multiple environments
- Combine infrastructure deployment directly into application codebase
- Seamlessly Integrate templates into continuous deployment

Why ARM Templates?

Cost

- Reduced footprint needed to manage and deploy infrastructure by allowing developers to deploy when and what they need on demand
- Resource tagging enables end to end cost visibility by classifications
- Defined templates provide more accurate cost estimations

Why ARM Templates?

Management

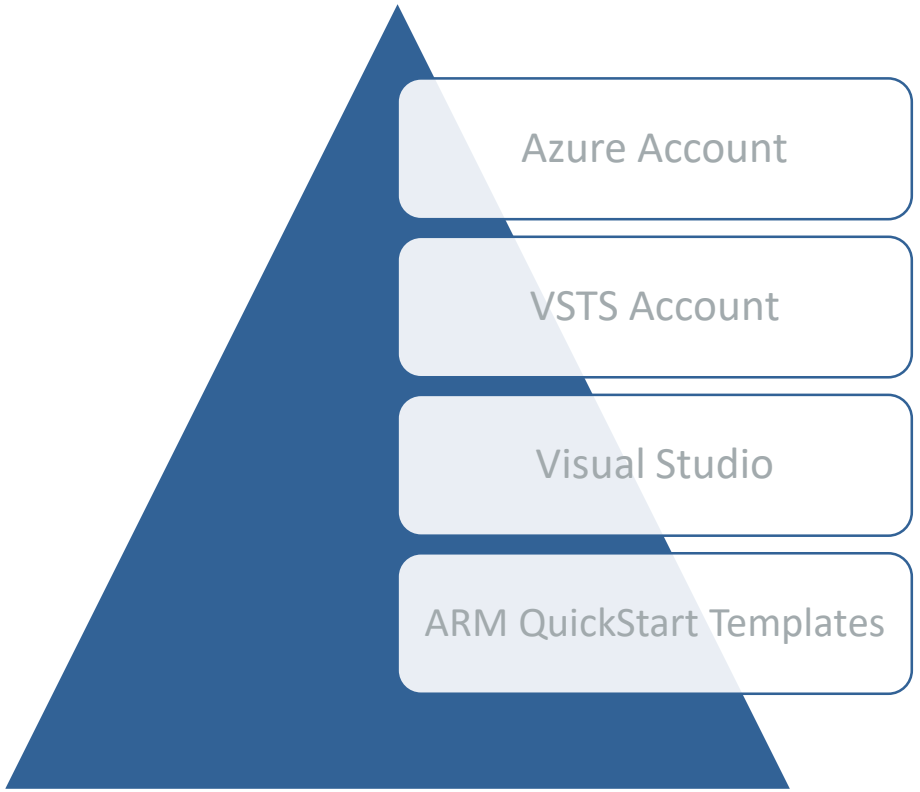
- Deploy, manage, and monitor all of the resources
- Set sequence of deployment by defining dependencies
- Enables to group & manage multiple resources as a single logical group

Why ARM Templates?

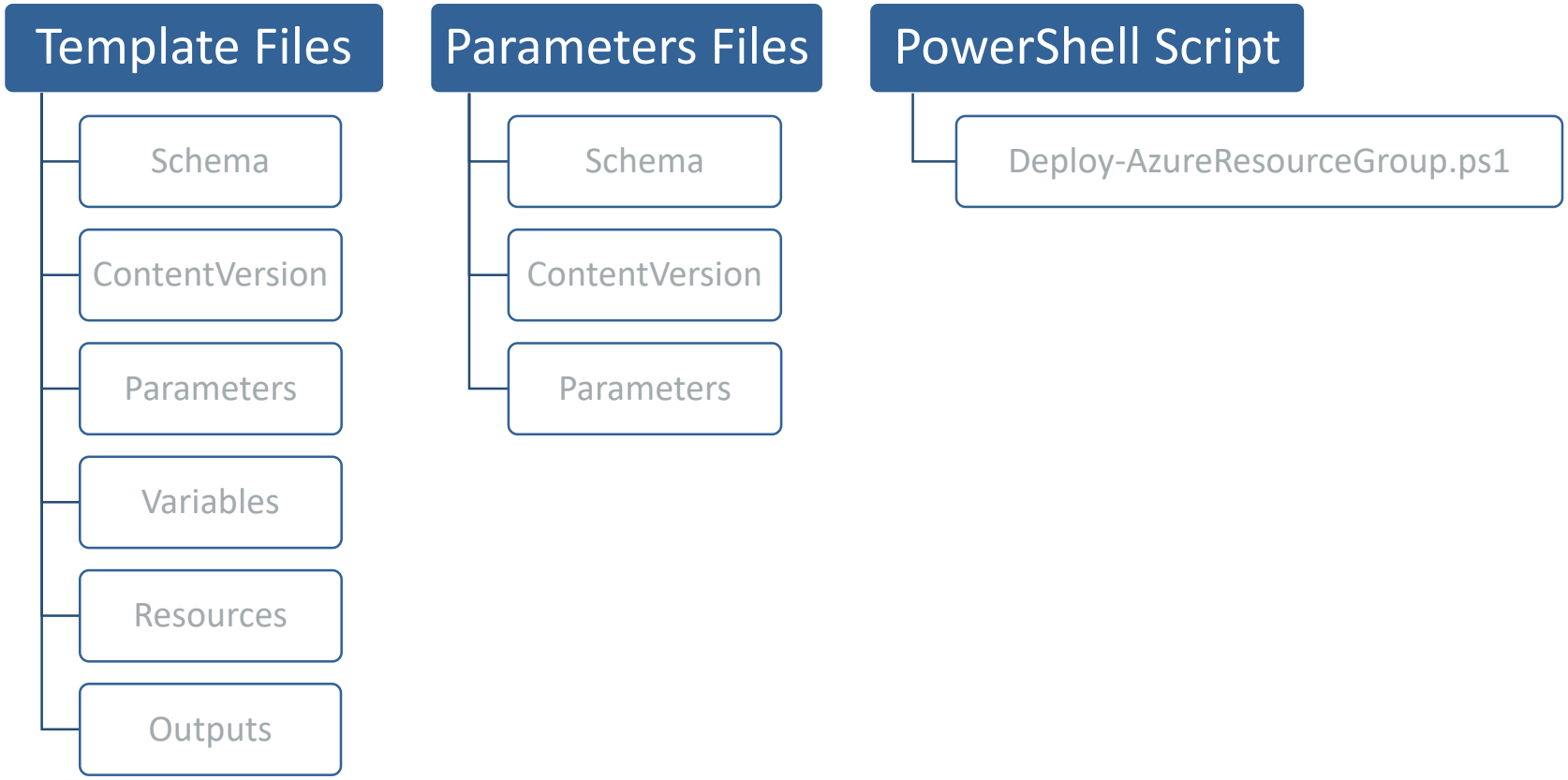
Security

- Role-Based Access Control (RBAC) is natively integrated
- Deploy full or incremental changes preventing configuration drift
- All Deployments are tracked and logged, for all deployments mechanisms

Platforms & Tools - Something Free For Everyone!



ARM Templates Components



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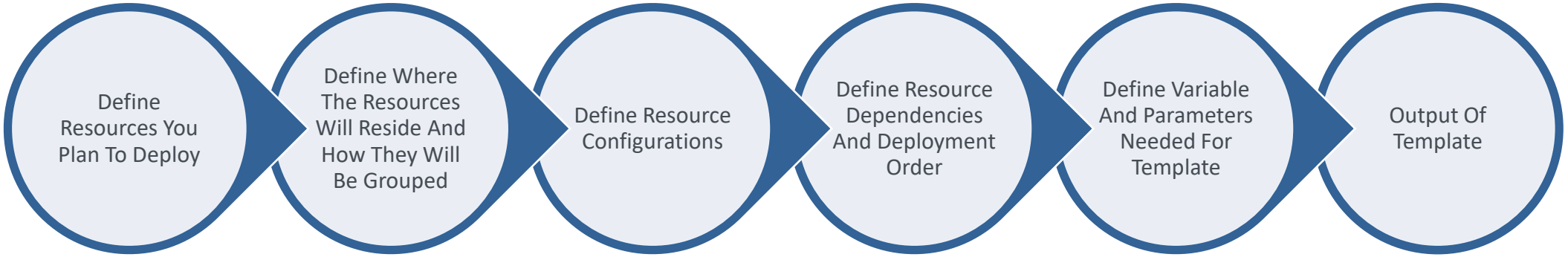
ARM Template Lifecycle



Deployment Options

- GitHub (Click To Deploy)
- Visual Studio
- Azure PowerShell
- Azure CLI
- Azure Rest API

Resources For Building Templates

- GitHub
  - Azure Open Source QuickStart Templates On GitHub (https://github.com/Azure/azure-quickstart-templates)
- Visual Studio
  - Premade Components In JSON Outline Using Resource Group Project
- Azure Portal
  - Automation Options From "Create A Resource" In Azure Portal
  - View Template From Deploy History
  - Export / Save Resource Group Level Via Automation Script
    - Download Template
    - Add To Template Library In Automation Script Section (Preview)
- Web Based
  - Azure Resource Explorer (https://resources.azure.com)
  - ARM Visualizer (http://armviz.io)

Q & A

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If you have questions or would like more information, feel free to contact me via email sean.davis@agilethought.com

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