About Me

- Been In IT For 20+ Years

- Love Pretty Much Anything That Goes Fast

- Have a Heart For Helping Others

- Father To Several Wayward Children

- Community Involvement
  - DevOps Institute / ITSM - DevOps / DevSecOps Instructor
  - Nationwide Public Speaker
  - Pluralsight Author
  - Executive / Business / Life Coach
  - Provide Leadership Courses For Gifted & Young Adults

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

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DEMO

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
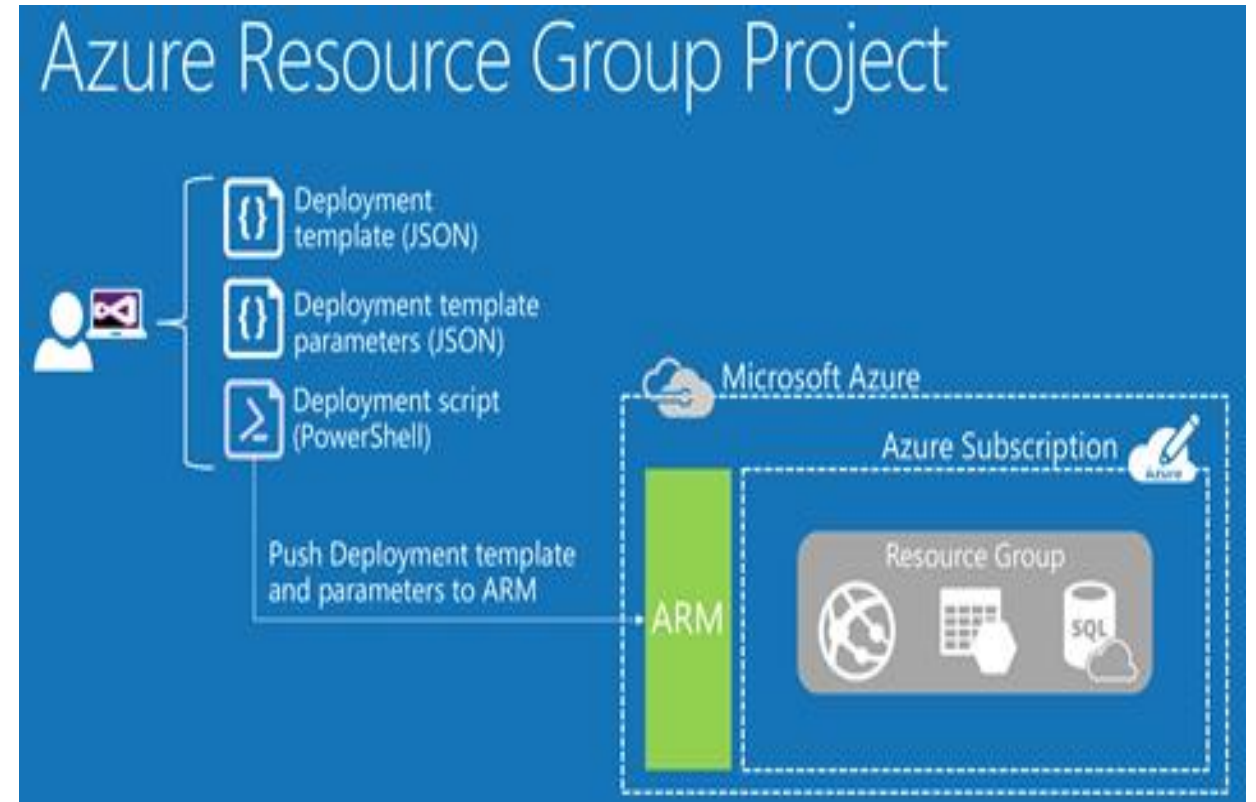
Why ARM Templates?

Speed

Usability

Cost

Management

Security

Platforms & Tools – Something Free For Everyone!

SDK For .NET

SDK For Java

Node.js

PHP

Python

Ruby

REST API

Azure Account

Azure DevOps Account

Visual Studio

ARM QuickStart Templates

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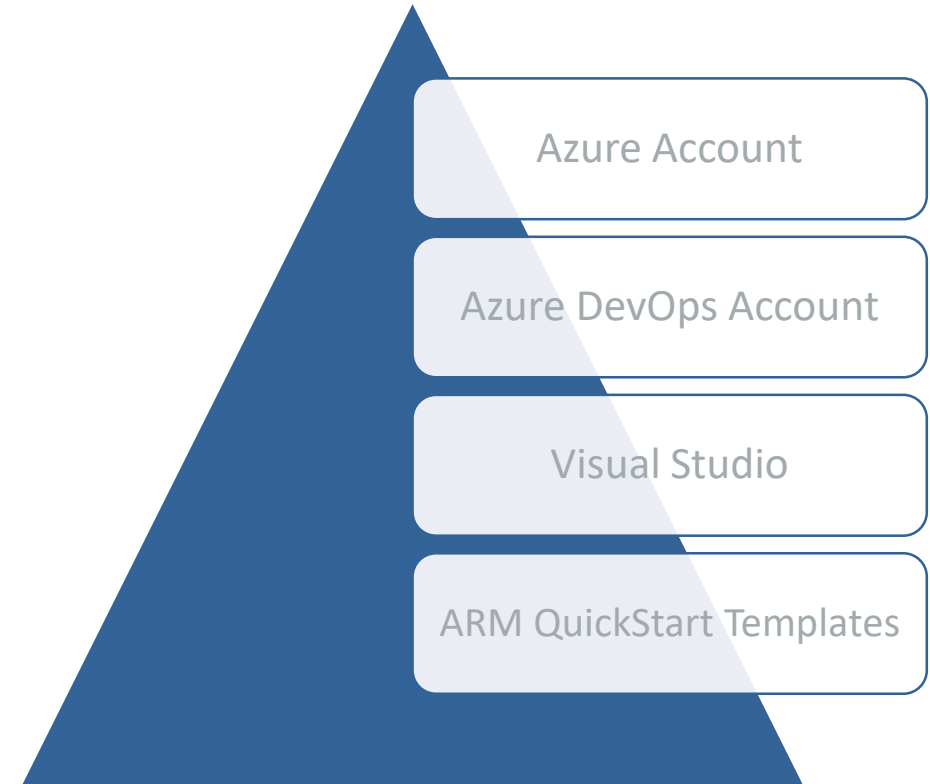
ARM Templates Components

Template Files
- Schema
- ContentVersion
- Parameters
- Variables
- Functions
- Resources
- Outputs

Parameters Files
- Schema
- ContentVersion
- Parameters

PowerShell Script
- Deploy-AzureResourceGroup.ps1

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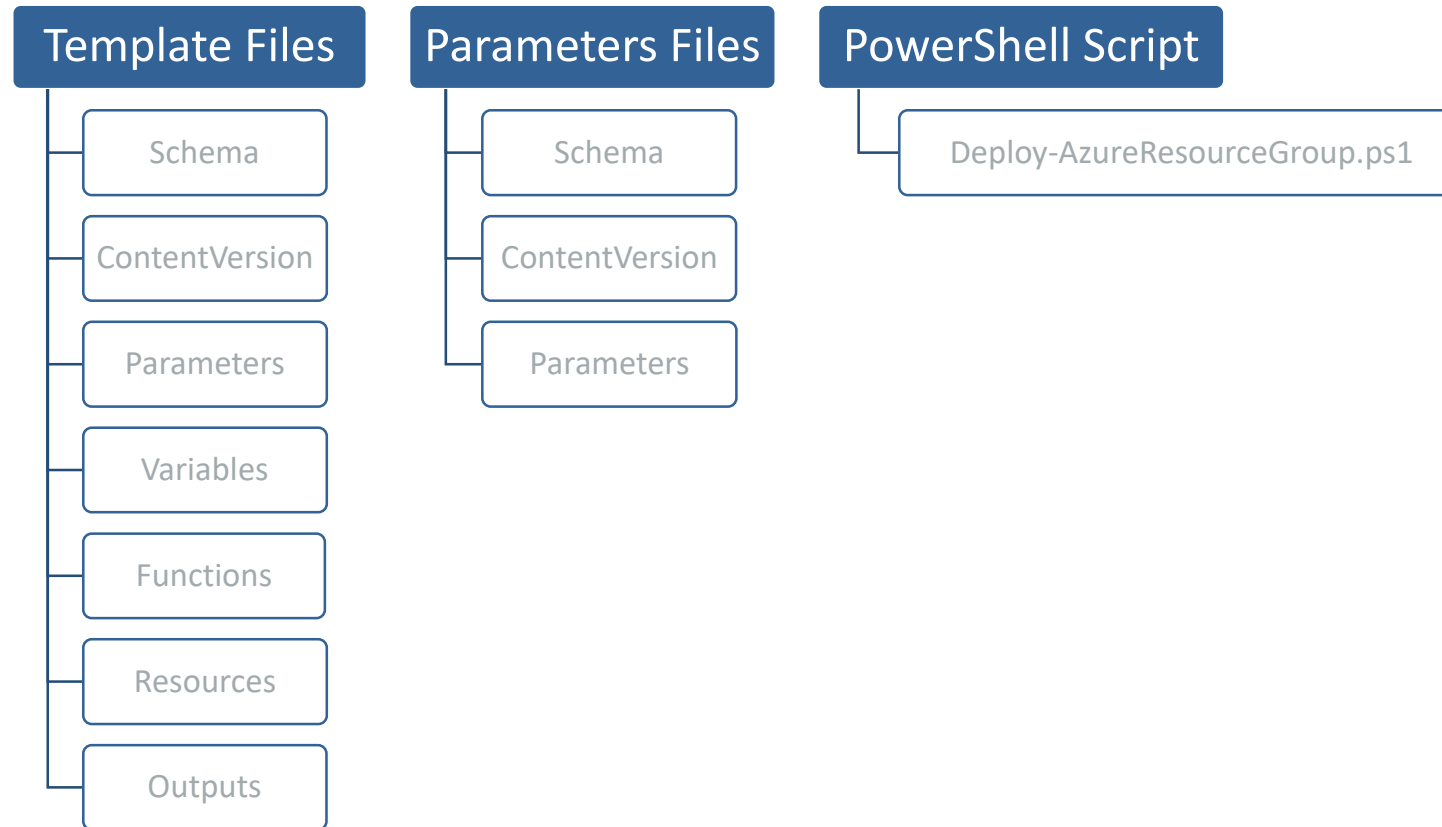
DEMO

ARM Template Lifecycle

Define Resources You Plan To Deploy → Define Where The Resources Will Reside And How They Will Be Grouped → Define Resource Configurations → Define Resource Dependencies And Deployment Order → Define Variable And Parameters Needed For Template → Output Of Template

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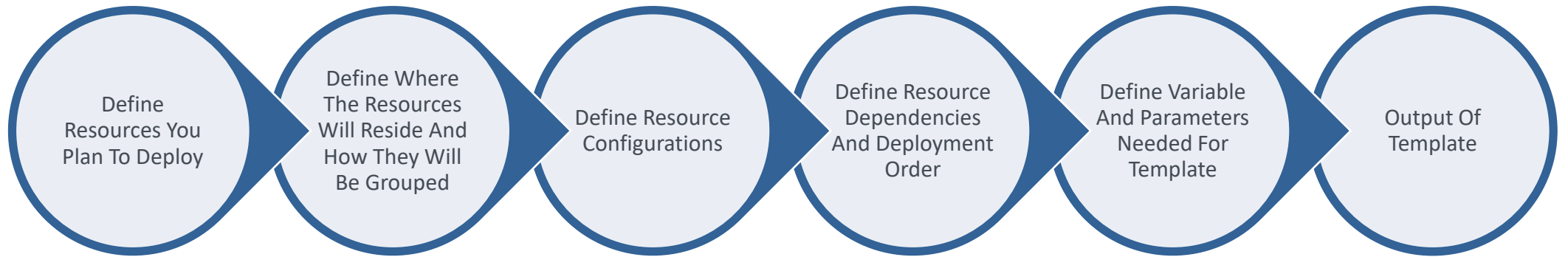
Deployment Options

GitHub (Click To Deploy)

Visual Studio

Azure PowerShell

Azure CLI

Azure Rest API

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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)

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Stay Connected

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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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