Automation Scripts & Templates for Azure

First Technology group | Platform and Advisory Services

research documentation for Azure

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# Research Document

## Everything revolves around the video

<https://www.youtube.com/watch?v=wR92fLyrW6I&t=1259s>

## Azure CLI

<https://docs.microsoft.com/en-us/cli/azure/install-azure-cli#install>

### What is azure cli?

Azure CLI refers to a set of commands used to create as well as manage Azure resources. This is not to be confused with PowerShell. The CLI is available across all Azure services and is designed to get us up and running quickly with Azure keeping Automation as a primary focus.

## Bicep Templates

<https://github.com/Azure/bicep>

### What is a Bicep Template?

Bicep templates make use of a domain-specific language that uses declarative syntax to deploy Azure Resources.

https://docs.microsoft.com/en-us/azure/azure-resource-manager/bicep/overview

## ARM Templates

<https://github.com/Azure/azure-quickstart-templates>

### What are ARM templates?

ARM Templates are a form of infrastructure as code. A concept where we will be able to define the infrastructure that needs to be deployed. ARM templates will allow us to create and define resources without needing to specify how the resources should be created.

https://www.varonis.com/blog/arm-template

## Azure Github actions

[https://github.com/Azure/CLI](https://www.youtube.com/redirect?event=video_description&redir_token=QUFFLUhqblhfX2J6WlJwSlgtRjI1MHRTRW85QjdVdzJFZ3xBQ3Jtc0tsa0FWTEpBczZvTHNzUnBhQ09zOXcxOHpSV25vLUZEcWs4UURERjRXNHdzVzg1M2oyd1Nac1hFNk93d1RObGc5OFE3UGFFTDJqa2llWmROWlRzMUdNc3dxTkFXZGh1SkdTUll3aUE0ZFRBdnN1dHlKSQ&q=https%3A%2F%2Fgithub.com%2FAzure%2FCLI)

### What is Github in Azure?

Easily create code-to-cloud workflows in your repository to build, test, package, release and deploy to Azure. GitHub Actions for Azure provides native support for deployments to Azure Container Service (AKS), the Web Apps feature of Azure App Service, Azure SQL Database, Azure Functions and more.

### Dev Ops vs Github

Another advantage Microsoft lists is that GitHub is "powered by community", which means that the community is large and many people also work on many topics for and on GitHub. Microsoft will not replace Azure DevOps with GitHub anytime soon, but the thing that is working on merging the 2 platforms is a fact

<https://www.linkedin.com/pulse/azure-devops-future-after-github-acquisition-microsoft-antonio-alvino/>

# VSCODE Extension

Azure Resource Manager ARM Tools

Bicep Extension

* All authors are from Azure

# Azure link for more quick start templates

<https://azure.microsoft.com/en-us/resources/templates/?resourceType=Microsoft.Authorization&sort=Popular>

# VWan Diagram

<https://drive.google.com/file/d/1UpwlTypFDfTeX79qRBo5Dz1k65rvEtnd/view?usp=sharing>

# Hub and spoke

<https://drive.google.com/file/d/1-azNuCet0exkr8B-cQE-QcvB2wwn8eOO/view?usp=sharing>