



Standardizing your Governance with IaC and GitHub Copilot

Elkhan Yusubov



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www.cloudlunchlearn.com



Elkhan Yusubov

Speaker | Author | Architect
Founder of #CloudMarathoner



Elkhan is a Director of Cloud Infrastructure, a Microsoft Azure MVP and MCT Community Lead with experience in cloud solutions, enterprise healthcare systems and data, and API standards (HL7 FHIR, EDI X12).



He is an active Microsoft Tech Community Contributor, Cloud Lunch and Learn Co-organizer, Learn Expert and Architect, as well as a LinkedIn instructor with interests in Architecture, AI, DevOps & Security.



He is a frequent speaker at tech meetups and has volunteered for Give Camps, Microsoft Community Days, Code camps, Azure Data Fest, SQL Saturdays, Global Azure and Microsoft community events, like this one.



And please, checkout his blog posts at Cloud Marathoner site below.

<https://theCloudMarathoner.com> 🌟 🏃 🏃

T-Rex Solutions

► IT Engineering Services

Agile Transformation
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Data Engineering & Analytics

► Customer Experience

Technology Adoption
Release Management
Communications Management
Change Management

► Health IT

EHR Strategy & Management
HIPAA Compliance
Healthcare System Integration & Testing
Patient Experience Enhancement



Company Info

- **Established:** 1999
 - **Legal Structure:** LLC
 - **Headquarters:** Bethesda, MD
 - **SDVOSB Joint Ventures**
 - **CMMI-DEV & SVC Level 3 v2.0**
 - **ISO 9001; ISO27001; ISO20000**
- Prime Vehicles/BPAs:**
- GSA MAS HACS SIN
 - GSA MAS Cloud SIN
 - GSA MAS IT Svcs SIN
 - COBRA OTA
 - CIO-SP3 Small Business
 - 8(a) STARS III via MPJV
 - GSA MAS HACS SB & Cloud SIN SB via MPJV



Silver Datacenter
Silver Data Analytics
Silver Data Platform
Silver App Dev
Silver App Integration

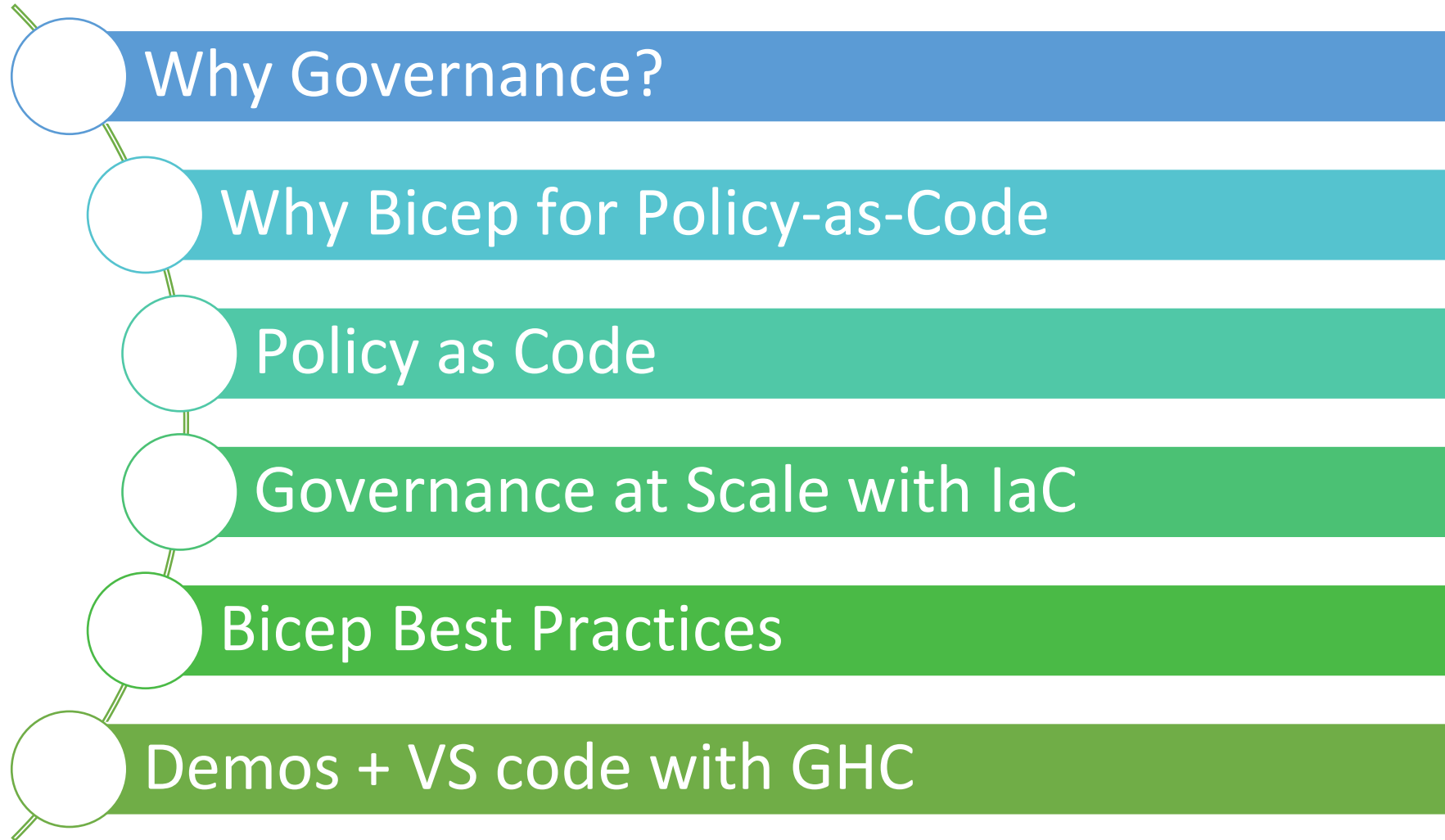


Select Consulting Partner



T-Rex has donated **over \$3.5M** in support of underserved youth, veterans, and local organizations.

What we will cover



Why Governance (shift left) ?

- Manual reviews, drift, inconsistency
- Policy-as-Code is enabler
- Better Outcomes

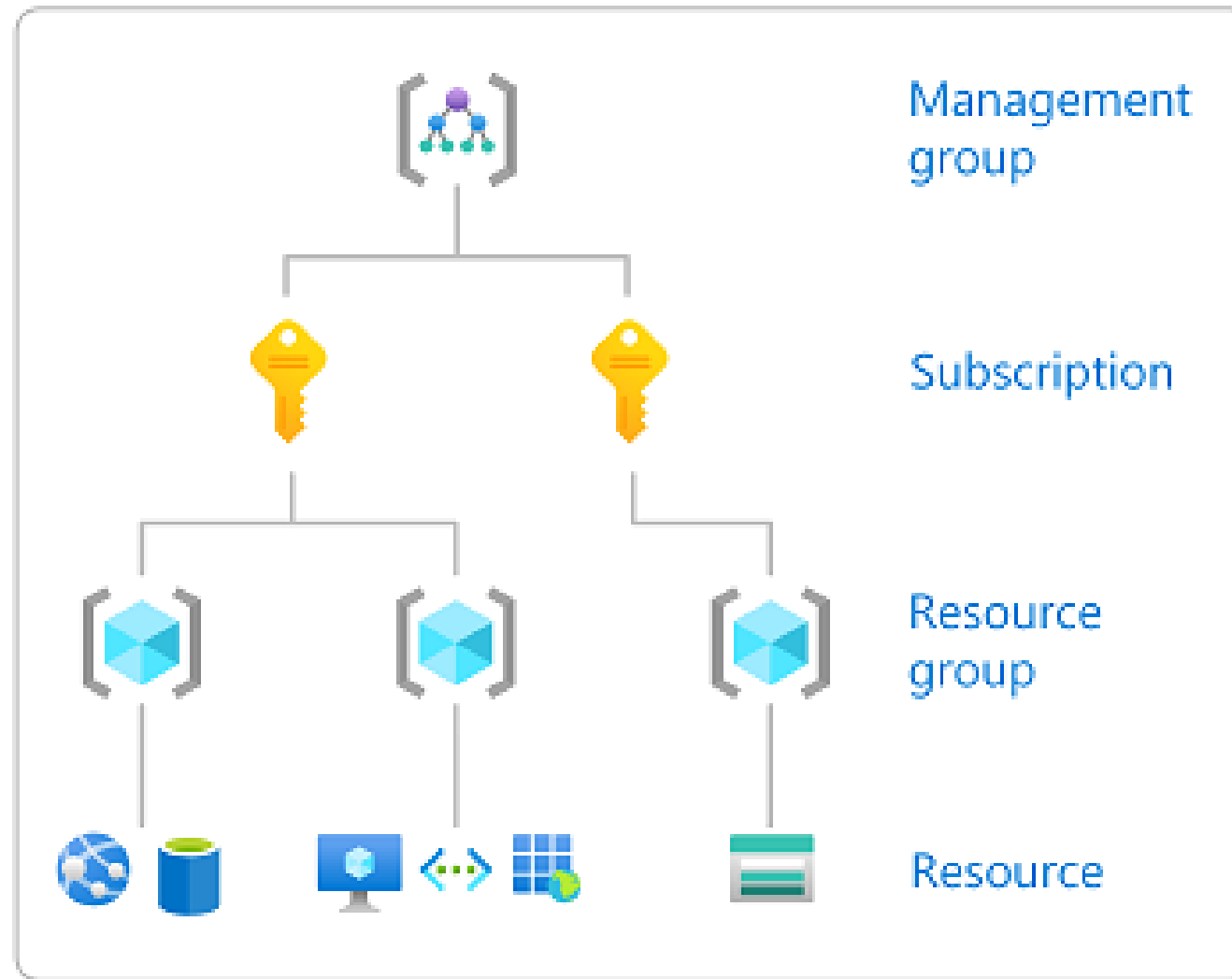


Governance Building Blocks

- What are the Azure Scopes?
- Azure Policy effects
- What are the Initiatives?



Azure Scope Levels

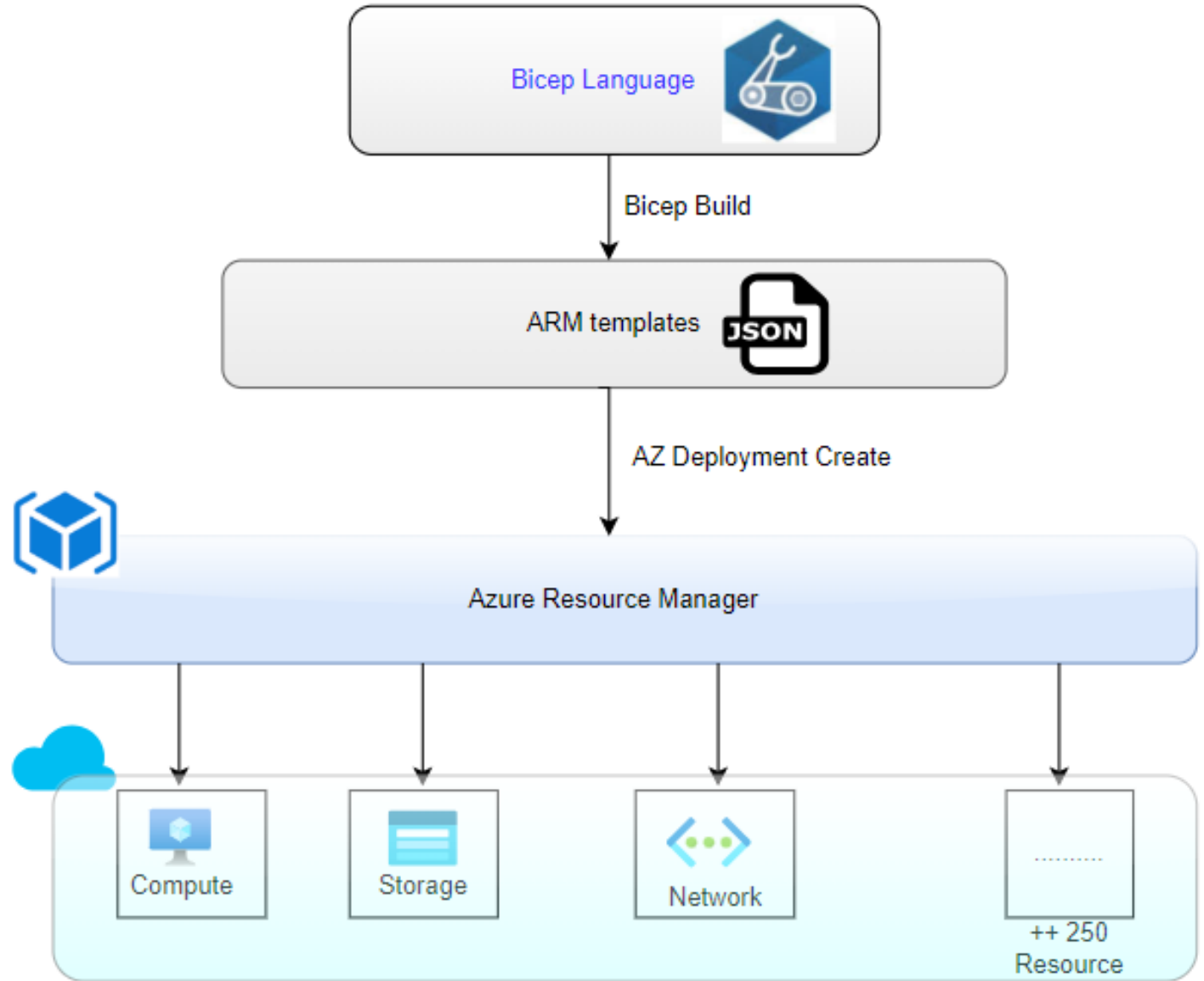


What Azure Bicep for Policy-as-Code?

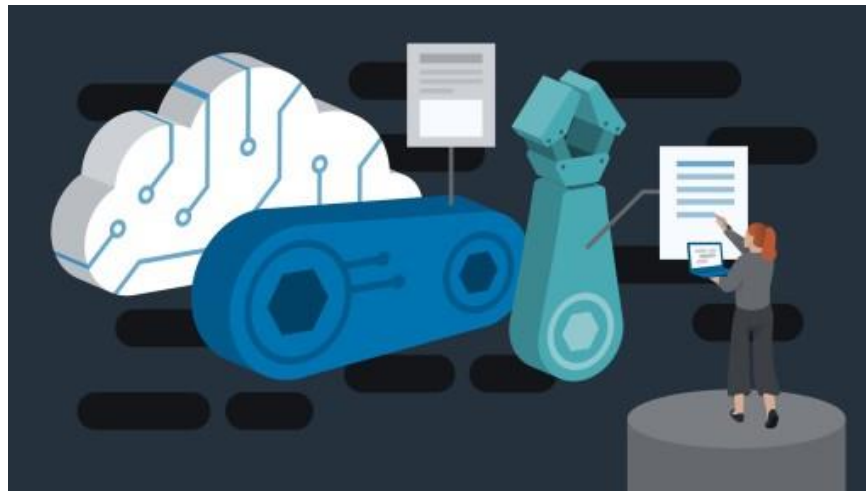
- Domain Specific Language (DSL)
- Azure-native, readable syntax & modules
- Type safety, tooling, and what-if planning
- Reusable guardrails for platform teams



Bicep connection to ARM


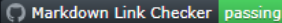


Azure Bicep video courses on LinkedIn



Awesome Azure Bicep community repo?

AWESOME Azure Bicep 💪 🔗

 awesome  Markdown Link Checker passing

A curated list of AWESOME blogs, videos, tips-and-tricks, codes, tools, and scripts. Hand-picked tips and tricks to help you learn Azure Bicep and get you ready to start deploying Azure resources to your favorite environment(s).

Community contributions are very welcome! Check out the [contribution guide](#) and submit a Pull Request with your adds/removes/changes to the content!

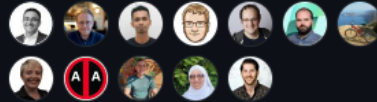
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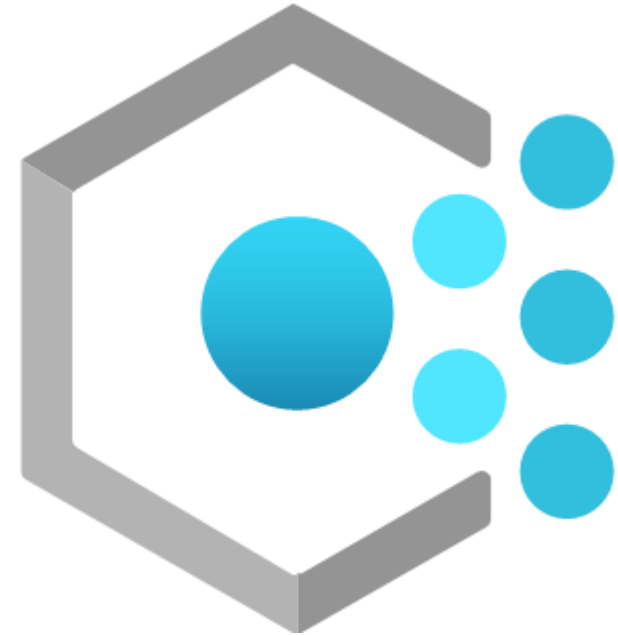
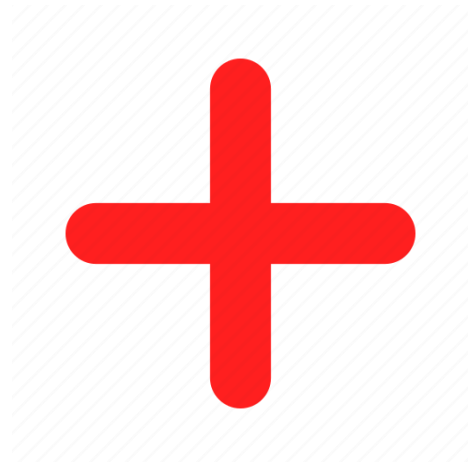
Releases 5
📦 **v4.1.0** Latest
on Aug 17
[+ 4 releases](#)

Packages
No packages published
[Publish your first package](#)

Contributors 12


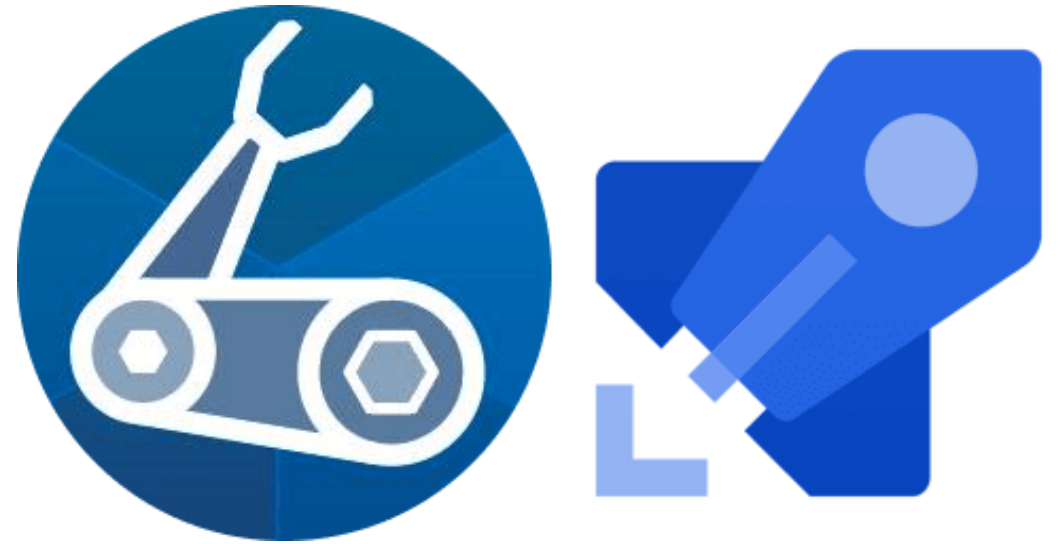


Bicep with Azure Policy



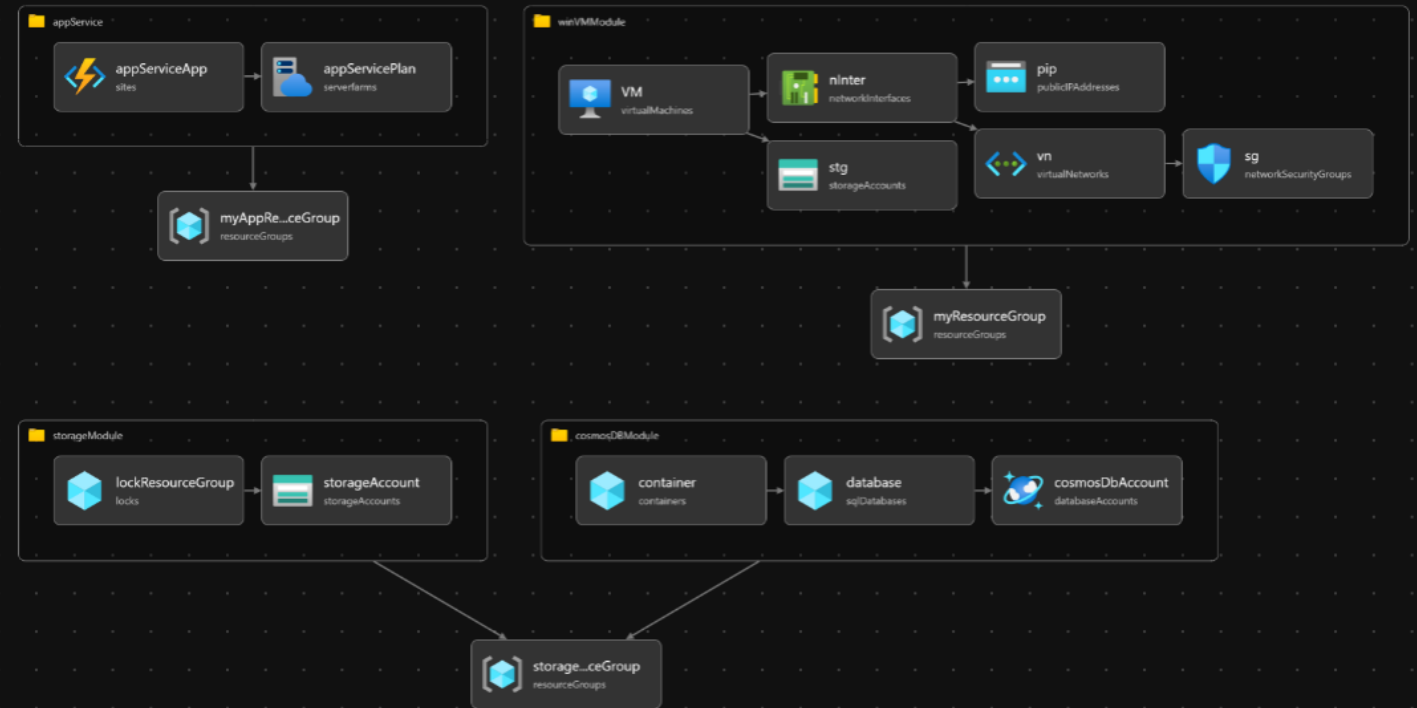
Bicep Best Practices

- Set targetScope
- Parameterize
- Use modules
- Run what-if and enable linter
- Bicep Visualizer

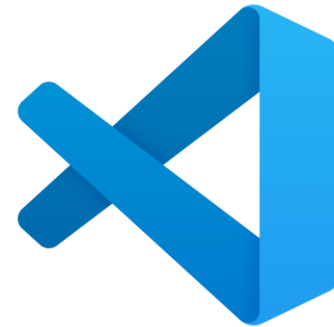
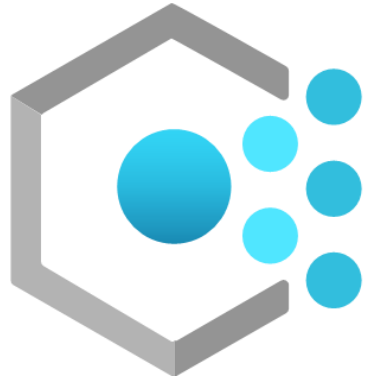


Visualizer v2

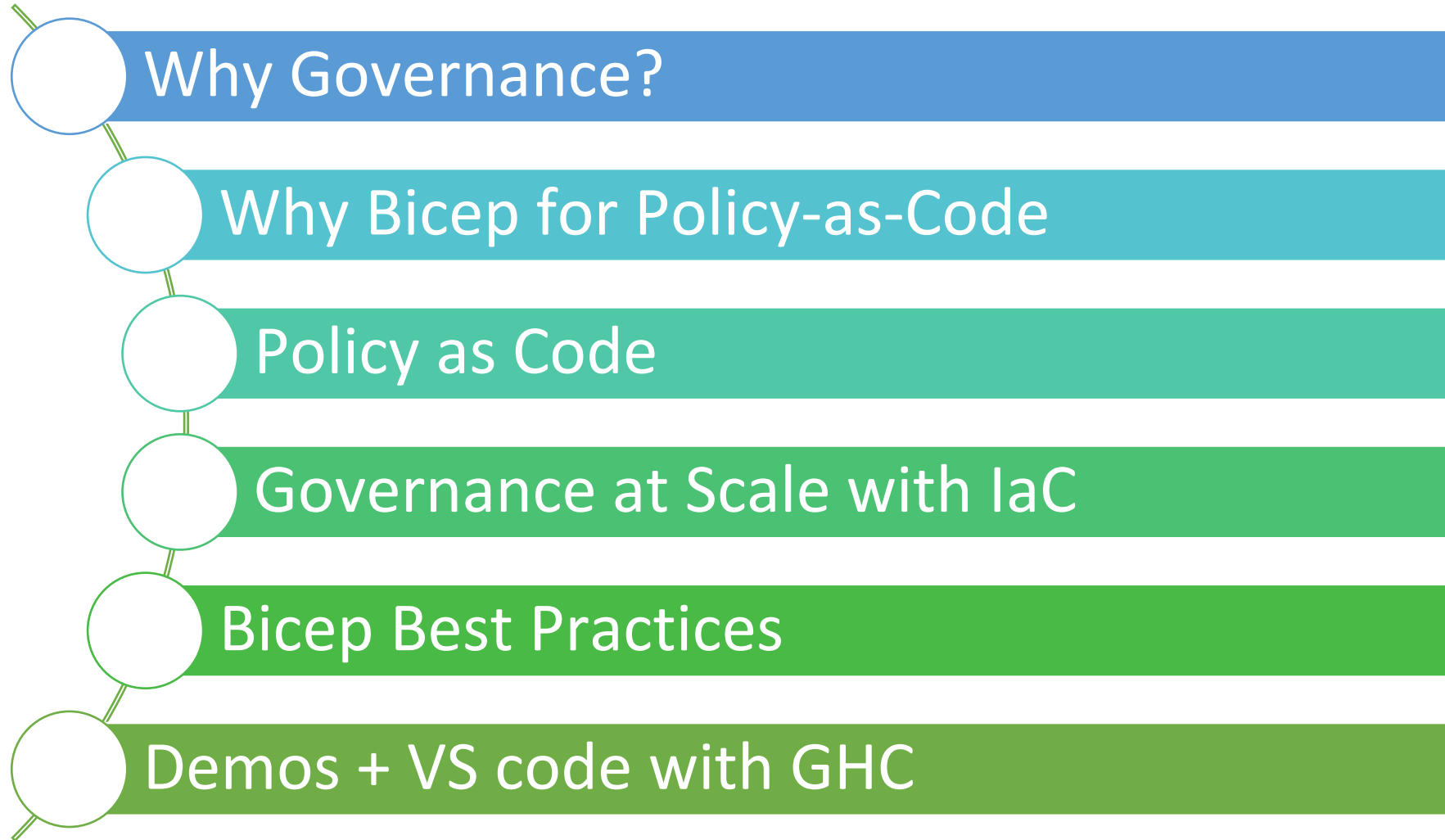
```
mples > 7-deploy-modules-w-param.bicep > azureRegion
You, 6 months ago | 1 author (You)
1 // 7-deploy-modules-w-param.bicep
2 // Sample AZ CLI deployment script
3 // az deployment sub create --location eastus -f .\sample.bicep
4
5 targetScope = 'subscription'
6
7 @description('Azure region location.')
8 param azureRegion string = 'eastus'
9
10 param resourceGroupName string // = 'rg-demo-vm-${azureRegion}'
11 param appResourceGroupName string // = 'rg-demo-app-${azureRegion}'
12 param storageResourceGroupName string // = 'rg-demo-storage-${azureRegion}'
13 param userName string
14
15 @secure()
16 param secretPass string
17
18 @description('Resource Group for Application workloads.')
19 resource myAppResourceGroup 'Microsoft.Resources/resourceGroups'
20 {
21   name: appResourceGroupName
22   location: azureRegion
23   tags: {
24     Project: 'Azure Dominicana 2022'
25     Environment: 'Demo'
26   }
27 }
28
29 You, 17 months ago | 1 author (You)
30 module appService '../modules/appservice.bicep' = {
31   scope: resourceGroup(myAppResourceGroup.name)
32   name: 'webAppDeployment-${uniqueString(myAppResourceGroup.name)'
```



Demos



What we covered





What is next?

Bicep + Governance Repo



Bicep First Look video 🎥



Building IaC with 💪 Part 1 🎥



Bicep + GitHub Actions 🎥



Lean Bicep + GitHub Copilot 🎥



AWESOME 💪 GitHub Repo



Thank you !



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#CloudMarathoner Founder

<https://theCloudMarathoner.com> 🌤️ 🏃 🏃

VS Code Experimental & Deployment Pane

