

T-REX
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< geekle >
DevOps
Global Summit'23

<https://events.geekle.us/devops23/>

**Zero to Hero: Securing IaC
in Your Cloud Environment**

Featuring

Elkhan Yusubov

Azure MVP,
T-Rex Cloud & Infrastructure SME



Tuesday | **12:30**
April 04 | **EDT**



Elkhan Yusubov

Speaker | Author | Influencer
Cloud Architect | Founder



Elkhan is a Cloud Architect Manager, Microsoft Azure MVP and 15+ MCT with experience in cloud solutions, enterprise healthcare systems and healthcare data, and API standards (HL7 FHIR, EDI X12).

He is an active Microsoft Tech Community Contributor, Cloud Lunch and Learn Speaker and Co-Organizer, and LinkedIn instructor with interests in Architecture, DevOps & Security.

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

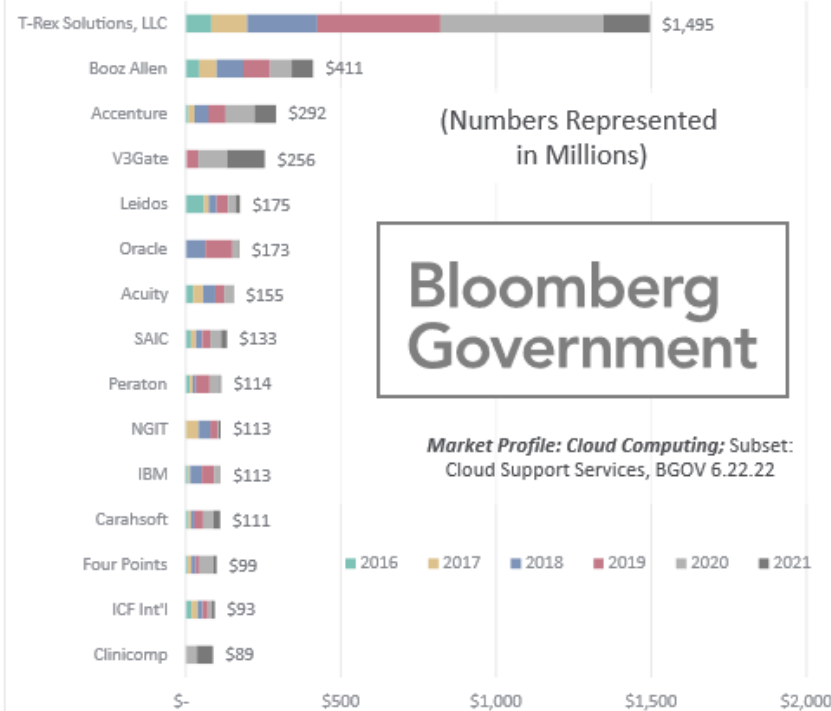
Check out the blog posts at Cloud Marathoner site below.

<https://theCloudMarathoner.com>   

What we do; where we do it; how it relates



Top Cloud Support Services Vendors



Company Info

- Established:** 1999
- Legal Structure:** LLC
- Headquarters:** Greenbelt, MD
- 8(a)/HUBZone & 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
- STARS III via MPJV
- GSA MAS HACS SB & Cloud SIN SB via MPJV

Silver
Microsoft Partner

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

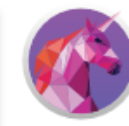
aws partner network

Advanced
Consulting Partner

Government Competency
Public Sector Partner



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



1st Place Gameday 2020

aws Public Sector



T-Rex's 2020 Census Technical Integration (TI) Program

Census Bureau is one of the first govt agencies to host and protect their mission-critical public-facing applications in the cloud.

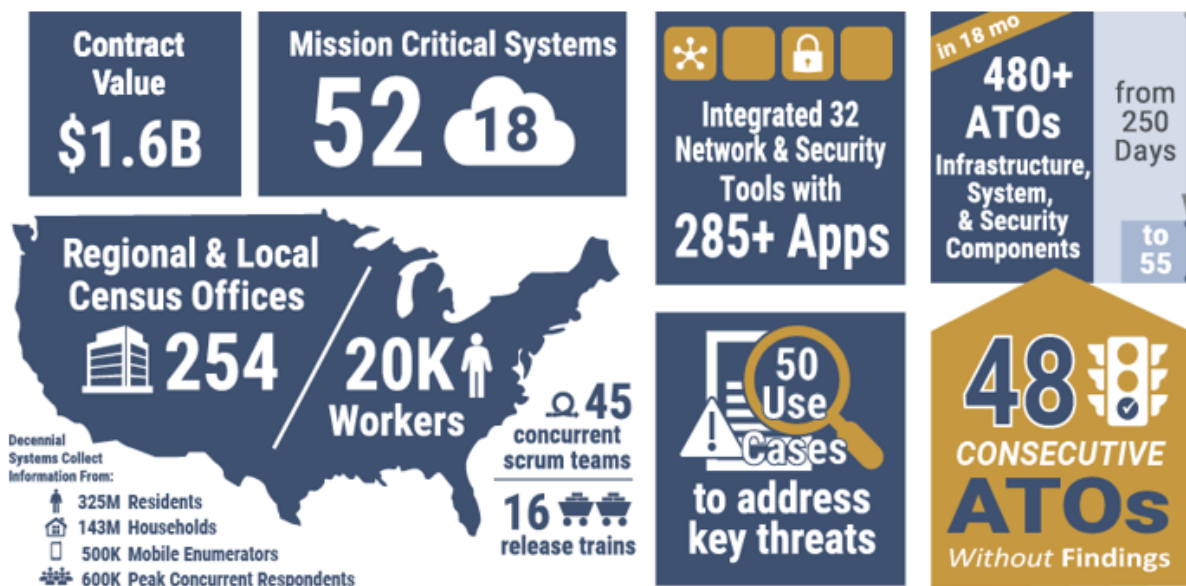
Mission Innovations:

- Improve public access through internet
- Enhance data usage to reduce work
- Boost workforce productivity with mobile computing



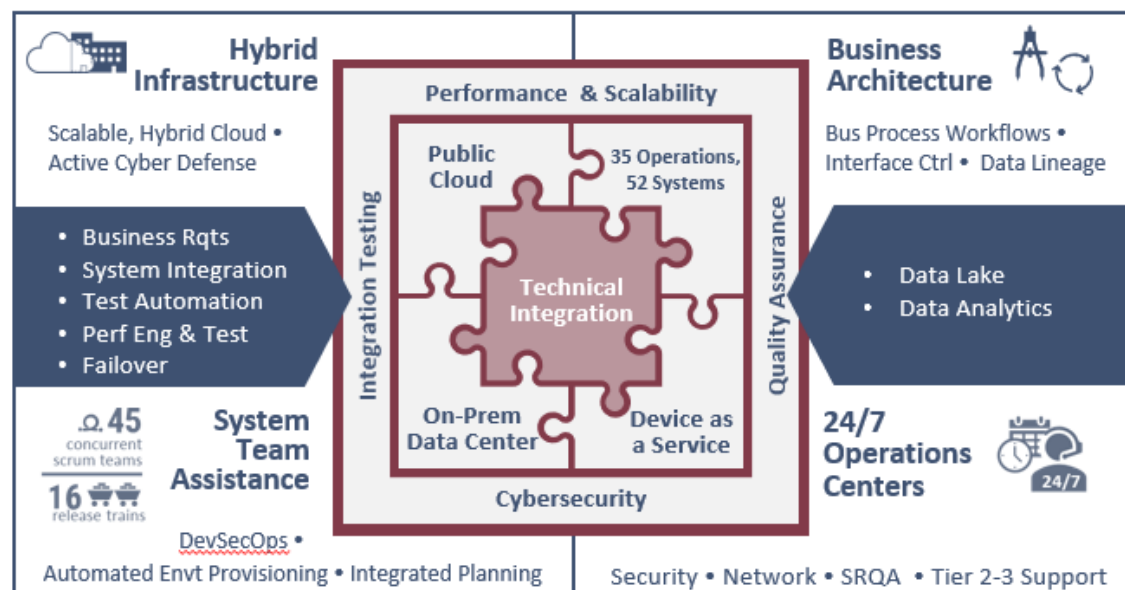
The 2020 Census Technical Integrator (TI) program is one of the largest, most visible government IT transformation programs in size, scale, complexity and scope.

Size, Scale & Complexity



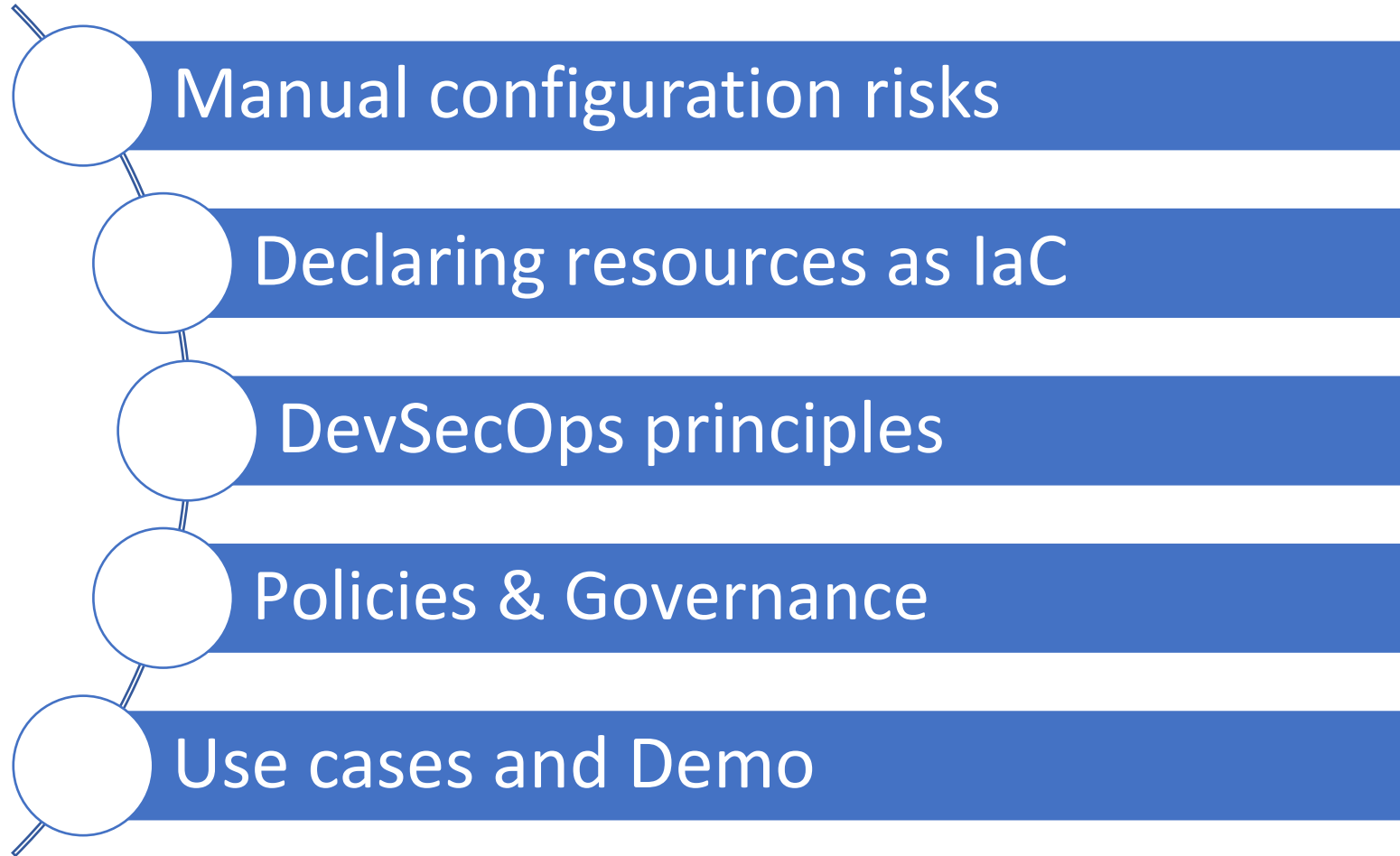
11/7/2020

Scope



IT Modernization encompassing Cloud, Cyber, Data Analytics, & App Development positioning USCB for the future

What we will cover



Manual configuration risks

- Inconsistent Configuration
- Security Risks
- Vendor Lock-in
- Cost Overruns
- Lack of Automation



IaC options & tools

- Azure Bicep
- Terraform
- Ansible
- AWS CDK
- Pulumi

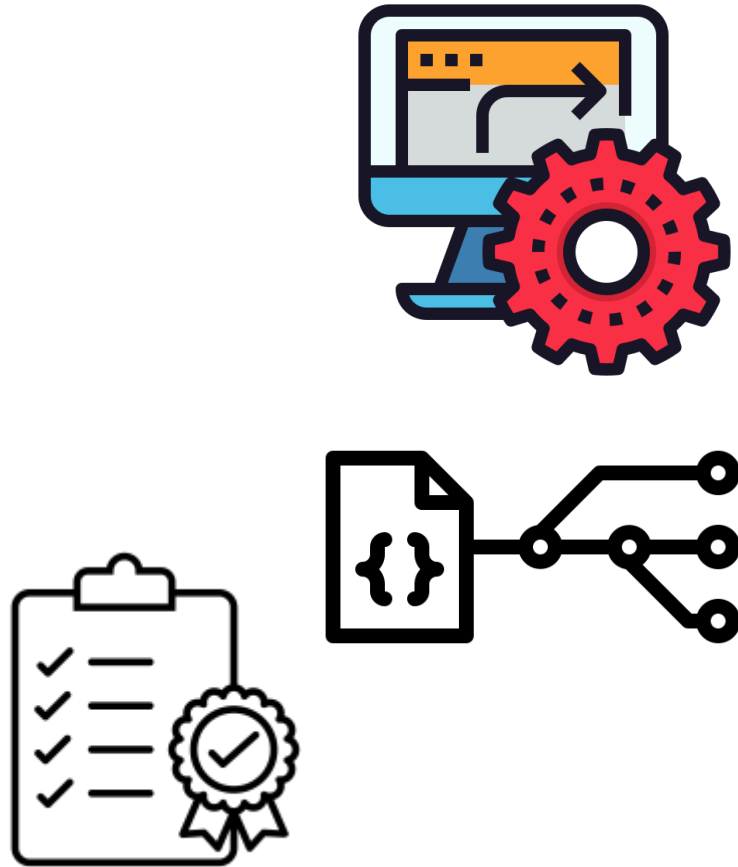


HashiCorp
Terraform



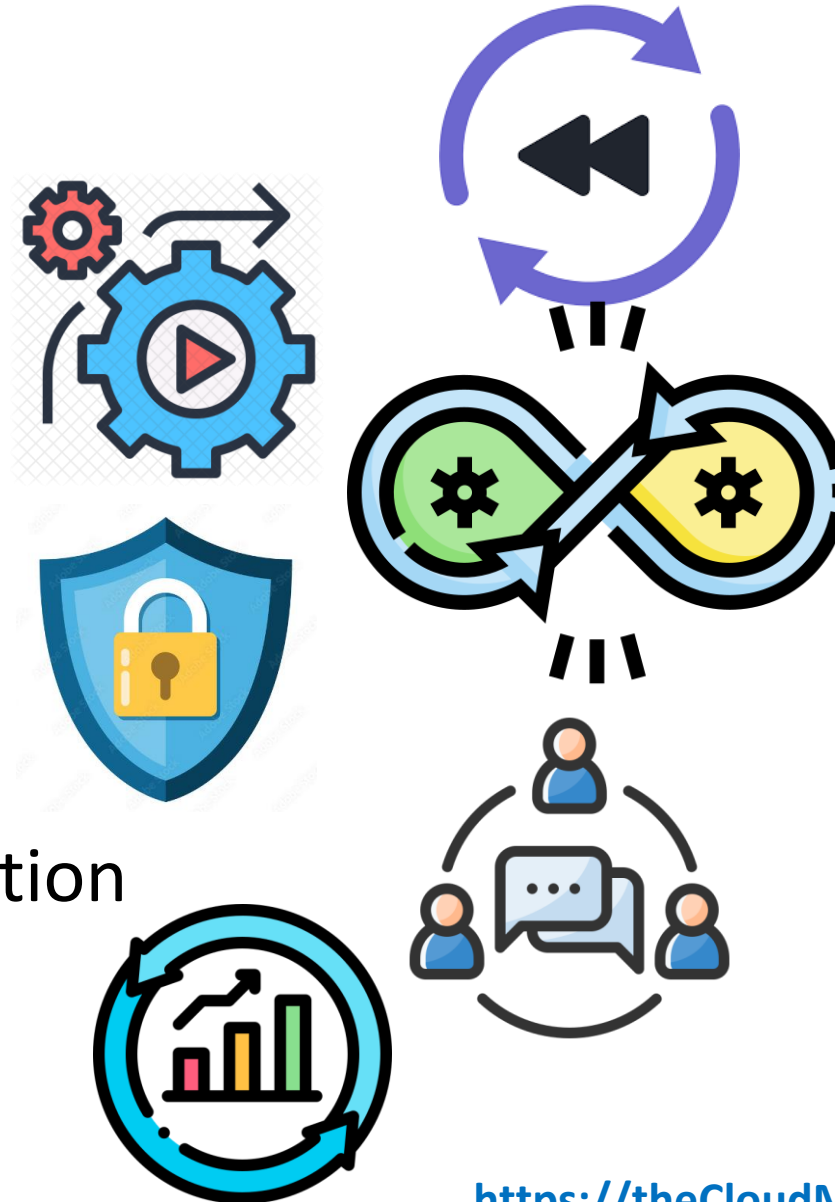
Declaring resources as IaC

- Consistency and repeatability
- Automation
- Security Testing
- Version Control
- Compliance



DevSecOps principles

- Shift Left
- Automation
- CI / CD
- Security as Code
- Collaboration and Communication
- Continuous Improvement

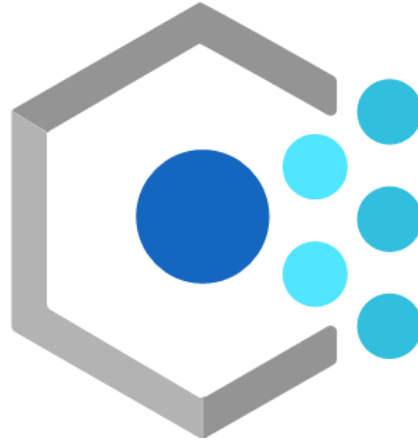


Policies & Governance

- Security Compliance
- DevOps Practices
- Risk Management
- Continuous Monitoring
- Compliance Auditing



Use cases and Demo



Questions

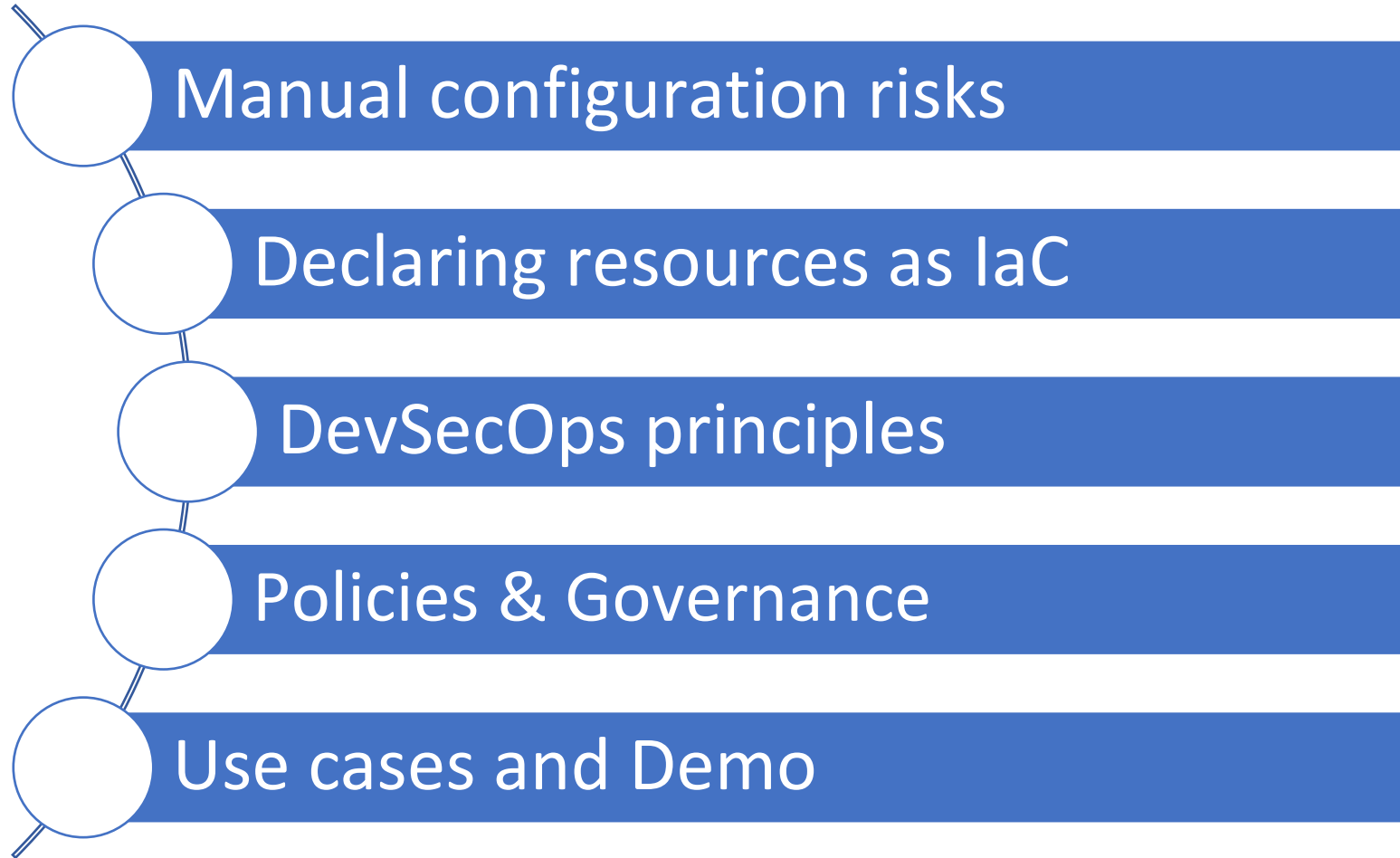
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Answers

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What we covered



Azure Bicep – First Look course 🧑🏫



Learn Bicep – GitHub



AWESOME Azure Bicep 📖



Thank you !



<https://geekle.us/schedule/devops23>

Elkhan Yusubov
Speaker | Author | Cloud Architect
Founder at #cloudmarathoner

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