

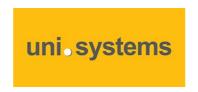
# Build DevSecOps practices on CI/CD pipelines

Gerasimos Alexiou Senior DevOps engineer @ thesignalgroup.com blog.geralexgr.com linkedin.com/in/geralexgr























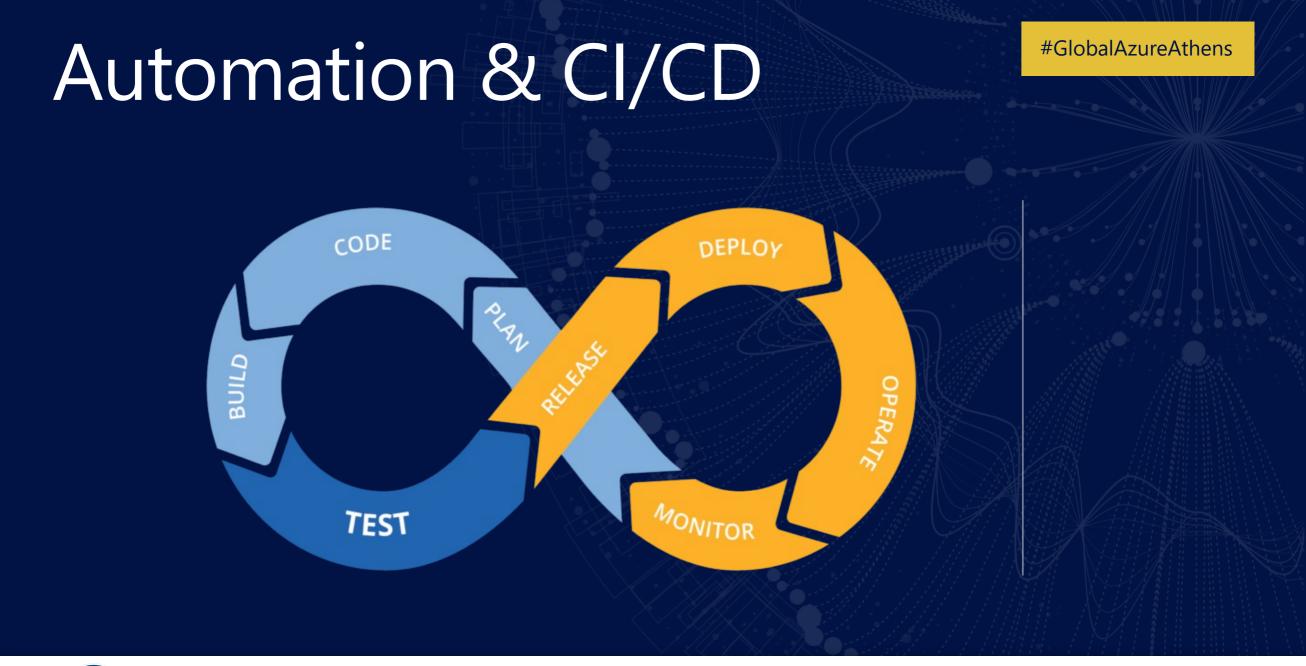






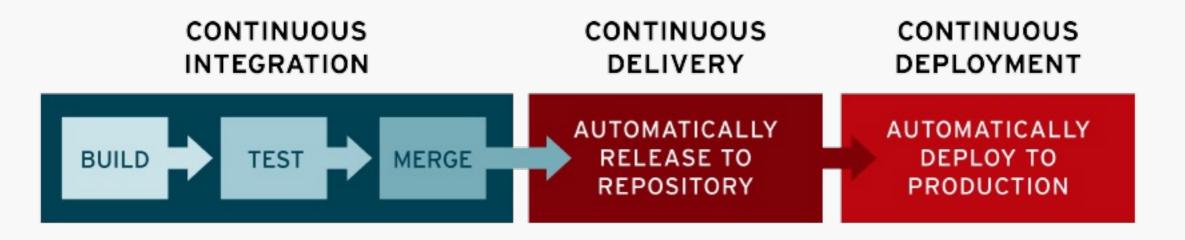
#### Agenda

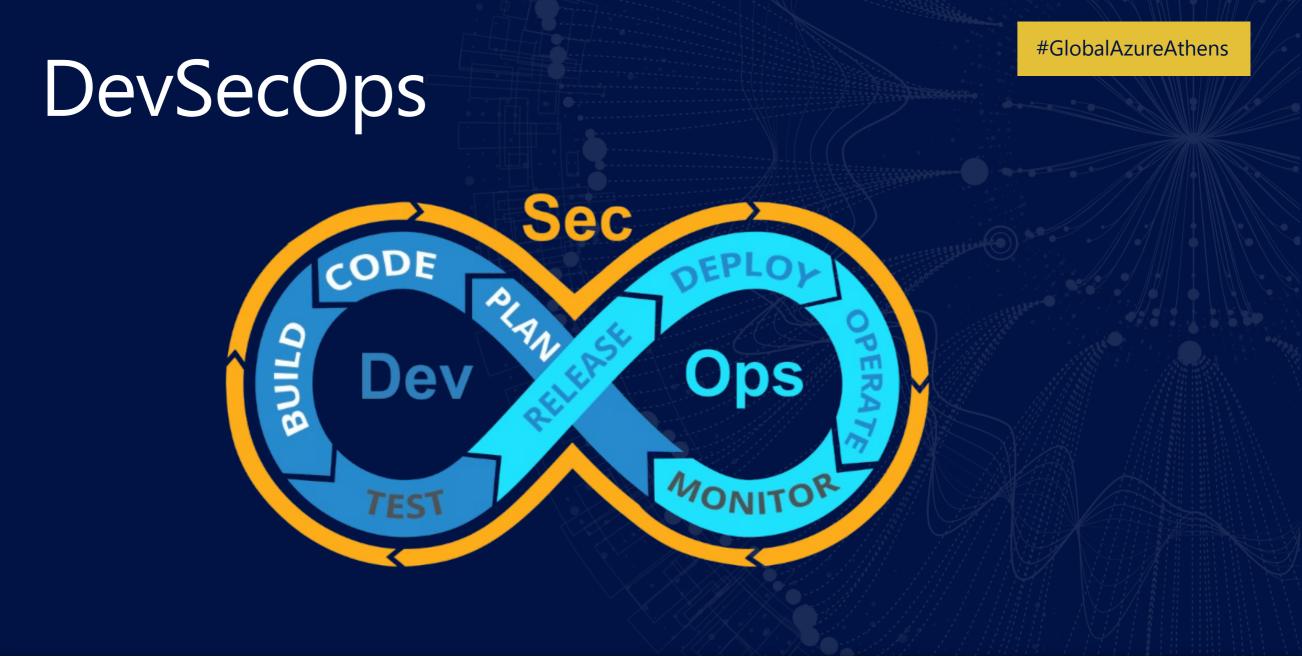
- 1) Automation & CI/CD pipelines
- 2) DevSecOps
- 3) Best Practises





## DevOps Build & Deploy

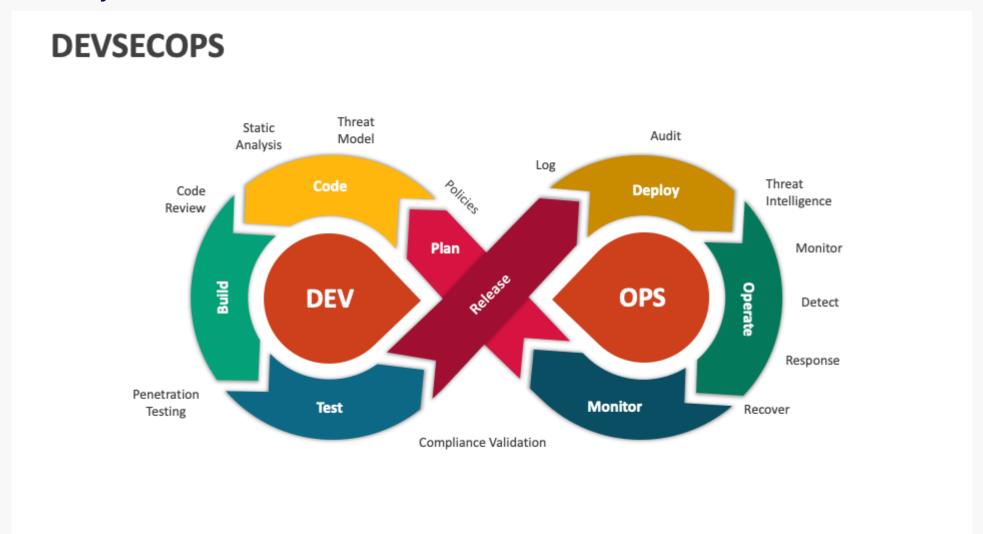






### DevSecOps

Security additions



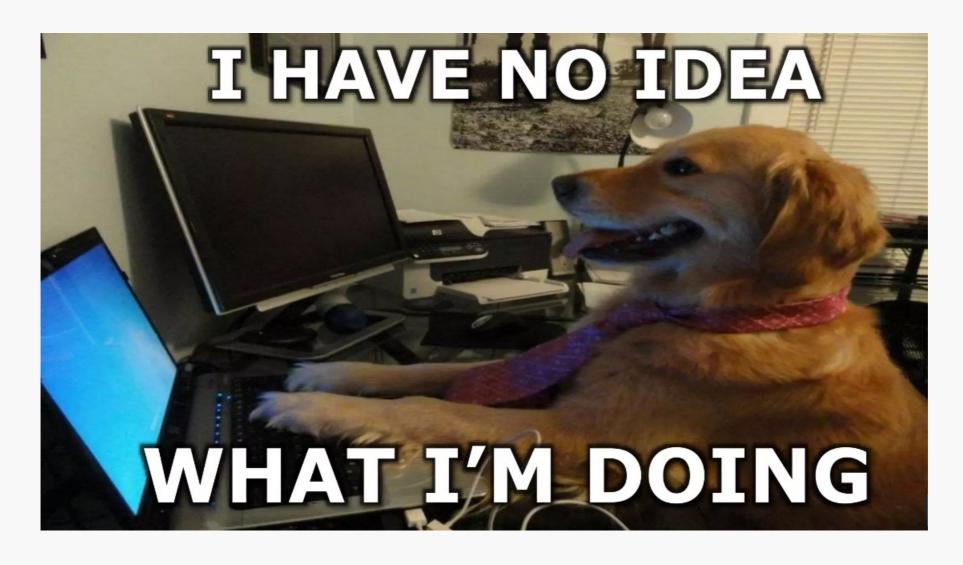
#### DevSecOps



#### DevOps



#### DevOps



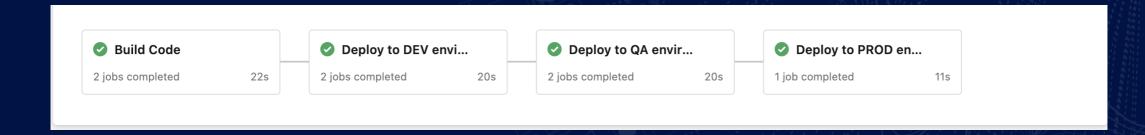
#### DevSecOps



#GlobalAzureAthens

## Demo time [devops]

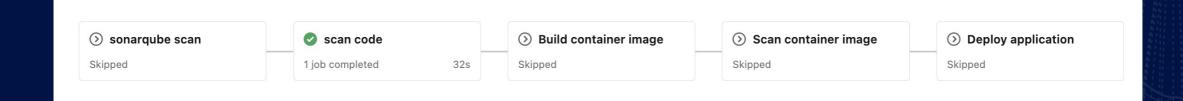
build application -> Release env





## DevSecOps

DevOps tools + Security practices - DevSecOps





## Demo time [devsecops]

#### Build application



- SonarQube
- Snyk
- Trivy
- Azure DevOps best practises

#### Release application



#### Tools

SonarQube → Trivy → Snyk → Production release

Quality Gates result -> Code scanning ->

Container scanning >> Production release



## SonarQube

- Code smells
- Bugs
- Vulnerabilities
- Coverage



## SonarQube

A Quality Gate is a set of measure-based Boolean conditions. It helps you know immediately whether your project is production-ready. If your current status is not Passed, you'll see which measures caused the problem and the values required to pass.



## Trivy

- OS packages and software dependencies in use (SBOM)
- Known vulnerabilities (CVEs)
- IaC issues and misconfigurations
- Sensitive information and secrets
- Software licenses



## Snyk

- Unified Policy Engine
- IaC security
- Container security
- Compliance automation



## Azure DevOps

- Agents topology
- Variables & Secrets
- Isolation (projects, pipelines)

 $\approx$ 



#### Demo time

Projects/AspNetWebApi Globalazure-devsecops.yml

https://github.com/geralexgr/ado-course/tree/globalazuregreece-2023



## Recap

- DevOps & DevSecOps
- Tools
- Mindset

Questions?



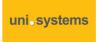


#### Please evaluate!



A big **thank you** to our sponsors!









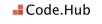














https://bit.ly/GA23Evaluation