CI/CD Enablement on Azure

Automate the deployment and updates of your cloud-native platform clusters. Push applications in a standardized and automated way. Apply techniques for zero downtime updates for the platform and applications

2 - 3 weeks

1 ALTOROS ARCHITECT +
YOUR DEVELOPERS TEAM

SERVICE FOCUS

K8s Enablement
App Modernization
Instructor-Led Training

TARGET AUDIENCE

Developers
Operators

PLATFORM

Azure

![ALTOROS]

ACTIVITIES	DELIVERABLES	OUTCOMES
Assess and adapt existing or create new:	• Best practices, education/enablement	• Faster and more consistent platform and application deployments
• Continuous delivery pipelines to provision and maintain AKS	• Pipelines written for the customer's choice of CI/CD products	• Improved application reliability and security through automated testing
• Continuous integration pipelines for container image creation and management.	• Pipelines to automate end-to-end platform provisioning and management	• Reduce errors introduced by manual processes
• Continuous delivery pipelines to deploy applications to AKS	• Platforms to automate creation of container images, including application testing and image vulnerability scanning	• Improve ability to reproduce the platform and services in the event of a disaster or when scaling to other regions
	• Pipelines to automate the deployment, testing, and rollback of applications	• Fewer people to maintain the platform
	• Documentation	

PRACTICES

Whiteboard Sessions

Q&A Sessions

App Architecture Workshops

Standards
and Guides

Training /
Pairing

Success with an industrial supply distributor

PROBLEM	SOLUTION	BENEFIT
• Spending a lot of money on the environment that was not fully utilized	• CI/CD pipeline templates for deploying applications to containers and AKS	• Secrets now stored in Azure Key Vault backed by Azure Active Directory for access control and utilizing AKS/Key Vault integration to manage application secrets in a more secure manner.
• Many people involved in day-to-day operations management of the platform	• Documentation on deployment and release management of applications to AKS using CI/CD blue/green	• A more common toolset for the infrastructure, changes are done through GitOps model
• Security issues: anyone having access to the code would have access to the keys	• Moving to Azure DevOps	• Fewer people involved in platform maintenance
• Lack of versioning and user management for application APIs	• Architecture defined in Terraform through pipelines	• More secure, streamlined way for business partners to consume application APIs
	• Azure API Management implementation to provide secure, versioned access to application APIs	

"Our developers have more time now to focus on larger problems and with the rapid feedback loop CI/CD allows us to steadily and continuously make our products better"

Why Choose Altoros

- A CNCF-certified K8s service provider and training partner

- 32 K8s Engineers on staff, including 12 Certified Kubernetes Administrators

- 140+ engagements for Fortune 500 customers

- 392 employees, 85% engineering, zero outsourcing

- 9 K8s meetup groups founded with 2,258 total members

- 700+ professionals trained on Kubernetes in 2019-2020

- 100+ contributions to Free and Open-Source Software FOSS

CLOUD NATIVE
COMPUTING FOUNDATION

COMPANY TYPE:
Systems Integrator (SI)

MARKETS SERVED:
North America
EMEA
APAC