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DevOps Intro

	Level	Duration
	Introduction	1 day

Audience and prerequisites

- This course is for everyone who need to get familiar with DevOps and the main tools

Main Goals

- Understand the basics of DevOps
- Agile in Nutshell
- DevOps In Nutshell
- Get familiar with the most common DevOps tools
- Apply recommended practices for effective and efficient automation with DevOps.
- Tools overview (CI, CD, IaC etc)

Content

Module	Content
Intro	**Cloud Computing & Aws Fundamentals**
	◆ **Introduction to Cloud Computing**
	◆ SaaS
	◆ What is DevOps
	◆ Agile in Nutshell
	◆ Agile vs Waterfall
DevOps in Nutshell	
	◆ Concepts
	◆ Dev & Ops
	◆ Automation
	◆ What is CI/CD?
	◆ Continues Integration
	◆ Continues Delivery
	◆ Continues Deployment (Manual / Automatic)
	◆ What is Pipeline?
	◆ Pipeline steps/phases
	◆ DevOps lifecycle
	◆ Testing
	◆ Monitoring
	◆ Release management
	◆ Application Performance Management (APM)
DevOps showcase	
	◆ The path from Coding to production
	◆ Tools Overview
	◆ Git
	◆ GitHub
	◆ GitLab
	◆ AzureDevOps
	◆ Jenkins
	◆ BlueOcean

	◆ Jira
	◆ Docker
	◆ Docker vs containerd
	◆ Kubernetes
	◆ On prem vs Cloud
	◆ Telepresence
	◆ Lens
	◆ Chef
	◆ Puppet
	◆ Ansible
	◆ Nexus
	◆ Artifactory
	◆ SonarCube
	◆ Vault
	◆ Nagios
	◆ Cloud
	◆ Azure
	◆ Aws
	◆ GCP
	◆ Terraform
DevOps Best practice	

Live Demos

- Coding > Git > Pipeline (Jenkins) > Docker > K8S

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