

Zielbox DevSecOps Course



The "Cloud, DevOps, Docker, Terraform, Security, and Kubernetes" course offers a comprehensive curriculum to provide learners with a solid understanding of various cloud technologies and DevOps practices. In Chapter 1, participants gain insights into Azure basics, services, and networking. Chapter 2 focuses on Azure DevOps, Jenkins, and their integration with tools like Slack, covering topics such as pipelines, multi-stage pipelines, and build scripts. Chapter 3 delves into Ansible, from an introduction to advanced concepts and practical implementation. Chapter 4 explores Docker, including layers, Dockerfiles, and infrastructure-as-code. Terraform is covered extensively in Chapter 5, encompassing state management and practical exercises. Security topics are addressed in Chapter 6, with a focus on general security practices, DevSecOps, and relevant tools. Finally, Chapter 7 introduces Kubernetes, covering various resources, deployments, Helm, volumes, and jobs.

Chapter 1: Cloud

- 1 Course Intro and Azure Basics
- 2 Azure Services
- 3 Azure Networking

Chapter 2: DevOps

- 4 Azure DevOps
- 5 Azure DevOps DG
- 6 Jenkins
- 7 Jenkins Slack Integration
- 8 Jenkins Pipelines
- 9 Jenkins Multi Stage Pipeline
- 10 Jenkins Build Scripts

Chapter 3: Ansible

- 11 Ansible Intro

- 12 Ansible in Detail
- 13 Ansible Advance
- 14 Ansible Practical

Chapter 4: Docker

- 15 Docker Intro
- 16 Docker Layers
- 17 Docker Files/IaC

Chapter 5: Terraform

- 18 Infra as Code Intro
- 19 Terraform
- 20 Terraform State and other
- 21 Terraform Code
- 23 Terraform Practical

Chapter 6: Security

- 24 Security General
- 25 Security DevSecOps Code
- 26 DevSecOps Items
 - Tools
 - Shift Left Approach
 - IDE Plugins
 - Container related tools
 - Vulnerability Tools
 - Build and Release time tools
 - Jenkins or ADO Examples

Chapter 7: Kubernetes

- 27 General DevOps Profile Discussion and K8s Intro

- 28 Kubernetes Resources-I
- 29 Kubernetes Deployment/Helm/Volumes/Jobs etc

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