



DevOps Syllabus V3.1

| |
|--|
| Chapter 1: Bash |
| Ability to write effective scripts, handle text processing and manage errors |
| Chapter 2: VCS & Git |
| Ability to setup, manage and use git. Understanding of basic branching strategies. |
| Chapter 3: Docker |
| Ability to dockerize applications in an effective manner |
| Chapter 4: Python |
| Ability to write python scripts, implement REST services and function in a development team |
| Chapter 5: Networks, Application topologies, Docker compose |
| Ability to implement popular runtime topologies using docker |
| Chapter 6: AWS Basics |
| Ability to configure secure networks and use central AWS services |
| Chapter 7: Jenkins, CI Pipelines |
| Ability to install, configure and use Jenkins to implement CI pipelines, Multi branch pipelines and advanced CI/CD patterns employing groovy and cloud |
| Chapter 8: Infrastructure as Code |
| Using Terraform to provision cloud resources and manage environments |
| Chapter 9: Kubernetes and Helm |
| Ability to setup and configure K8S clusters Ability to deploy both stateless and stateful application topologies over K8S cluster |
| Chapter 10: GitOps |
| Ability to implement the GitOps pattern as part of an overall CI/CD process involving Jenkins and FluxCD |
| Chapter 11: Logging and Monitoring |
| Ability to setup and configure monitoring and alerting using ELK, Prometheus and Grafana |
| Chapter 12: Certification |
| Obtaining an official certificate (either CKA or AWS CSAA) |