

# COMPLETE DEVOPS ROADMAP

## NETWORKING

OSI MODEL, TCP/IP MODEL  
IP ADDRESSING, SUBNET, PORTS  
PROTOCOLS - DNS, SSH, HTTP/S  
CLOUD NETWORKING COMPONENTS

## GIT VERSION CONTROL

SCM TOOLS – GITHUB, GITLAB  
GIT BASICS, BRANCHING STRATEGY  
GIT MERGING & CI/CD INTEGRATION  
GIT TAGS, RELEASES, REMOTE REPO  
GIT COLLABORATION

## ANSIBLE

ANSIBLE ARCHITECTURE  
ANSIBLE PLAYBOOKS,  
VARIABLES, MODULES, COLLECTIONS  
ANSIBLE ROLES, GALAXY & VAULT  
ERROR HANDLING, DYNAMIC  
INVENTORIES, CI/CD INTEGRATION AND  
SYSTEM CONFIG MANAGEMENT

## KUBERNETES

ARCHITECTURE, INSTALLATION,  
CONFIGURATION & SECURITY  
WORKLOADS & SCHEDULING  
SERVICES, NETWORKING, STORAGE  
CLUSTER UPGRADES, MAINTENANCE  
HELM CHARTS & DEPLOYMENTS

## JENKINS CI / CD

JENKINS, GITHUB ACTIONS  
JENKINS UI & CONFIGURATION  
SCRIPTED & DECLARATIVE PIPELINES  
JENKINS SHARED LIBRARIES,  
JENKINS PLUGINS & SECURITY  
CI / CD WITH JENKINS  
JENKINS ADMINISTRATION & MAINTENANCE

## OPERATING SYSTEM

LINUX - UBUNTU / REDHAT / CENTOS  
FILE / USER / PROCESS / DISK /  
PACKAGE / SERVICE MANAGEMENT  
SCRIPTING & TEXT PROCESSING,  
NETWORKING, SECURITY HARDNING,  
TROUBLESHOOTING

## PROGRAMMING LANGUAGE

- PYTHON
- GO
- NODE.JS
- RUBY

## DOCKER

DOCKER ARCHITECTURE  
DOCKER BASICS  
DOCKER IMAGES  
DOCKERFILE , MULTI-STAGE BUILD  
DOCKER NETWORKING  
DOCKER REGISTRY, DOCKER COMPOSE  
DOCKER VOLUMES, IMAGE MANAGEMENT  
DOCKER IMAGE SCANNING & SECURITY

## LOGGING & MONITORING

LOGGING – ELASTICSEARCH STACK  
MONITORING – PROMETHEUS, GRAFANA  
DISTRIBUTED TRACING – JAEGER,  
OPENTELEMETRY  
CLOUD MONITORING – AZURE MONITOR

## CLOUD & TERRAFORM

**CLOUD** – AZURE, AWS, GCP  
AZURE - FUNDAMENTALS, COMPUTE,  
STORAGE, NETWORKING, IAM, AZURE  
DEVOPS, AZURE FUNCTIONS  
**TERRAFORM** - BASICS, PROVIDERS,  
CONFIG FILES, TF STATE, MODULES &  
WORKSPACES, BACKENDS, PROVISIONERS,  
DATA SOURCES, CONDITIONALS AND LOOPS

2025  
2026