

stackgenie Academy

Blue

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*Unlock Your Tech Potential with
stackgenie's Learning Experience.*

Print

Real-World Projects, Real Engineering

training@stackgenie.io

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Our goal is to empower individuals with in-demand expertise that leads to career growth and new opportunities.

Real Tools Real Infra Real Use-Cases.

You won't just learn the tools. You'll build, break, fix, and deploy them in simulated war rooms, client environments, and production-style systems.

Phase 1

Linux + System Administration

Week 01

Linux Basics & Foundations

- ✓ Linux Intro, CLI Navigation, File Operations
- ✓ Text Editors (vi, nano), File Hierarchy, Permissions
- ✓ User & Group Management, sudo, umask
- ✓ Partitioning, LVM, RAID Basics
- ✓ Hands-on Practice + Pre-read: Boot & Packages

Week 02

System Admin, Boot, SSH & Shell Scripting

- ✓ Process Management, Package Management
- ✓ Boot Sequence, Systemd, Runlevels
- ✓ SSH Setup + Secure Access
- ✓ Installing from Source, Snap, Flatpak
- ✓ Shell Scripting, Automation Basics, Debugging

Phase 2

Git, Build Tools & Monitoring Foundations

Week 03

Git, GitHub & Maven Essentials

- ✓ Git Basics, Branching, GitHub Workflow
- ✓ Pull Requests, Merge Strategy, gitignore
- ✓ GitHub CLI & Automation
- ✓ Maven Setup, pom.xml, Build & Test
- ✓ Hardware Monitoring Tools: CPU, Memory, Disk, Network

Week 04

GitHub Actions Foundations

- ✓ Intro to GitHub Actions & YAML Syntax
- ✓ Workflow Triggers, Jobs, Steps, Actions
- ✓ Reusable Workflows & Secrets Management
- ✓ Build + Test Automation with GitHub Actions
- ✓ Integration with Docker & Terraform
- ✓ Debugging Workflows.

Phase 3

Cloud Automation + CI/CD

Week 05

Advanced GitHub CI/CD & Cloud Integrations

- ✓ Multi-Environment CI/CD (Dev → Prod)
- ✓ Deploying to AWS/Azure/GCP using GitHub Actions
- ✓ Using OIDC for Secure Cloud Authentication
- ✓ Artifact Management, Environment Variables
- ✓ Automated Rollbacks, Notifications, and Approvals
- ✓ Real-World CI/CD Pipeline Project

Week 06

Container Build Pipelines

- ✓ Docker Build Automation in CI/CD
- ✓ Image Scanning, Tagging, Pushing to ECR
- ✓ Infrastructure Provisioning via Terraform in CI
- ✓ Deploying K8s Manifests via GitHub Actions
- ✓ Managing Secrets via GitHub Environments & Vault
- ✓ Pipeline Best Practices & Troubleshooting

Phase 4

AWS Foundations

Week 07

AWS Core Services (Part 1)

- ✓ IAM, EC2, SSH, User Data
- ✓ VPC, Subnets, NAT, Security Groups
- ✓ S3, Lifecycle Policies, Encryption
- ✓ RDS, Multi-AZ, Backups
- ✓ CloudFront, Route 53, Static Hosting

Week 08

AWS Advanced + Observability

- ✓ SNS, Lambda, EventBridge Basics
- ✓ CloudWatch Metrics, Logs, Alerts
- ✓ Cloud Trail, API Activity Tracking
- ✓ Cost Explorer, Budgets, Optimization
- ✓ Final AWS Project, Infra Architecture Review

Phase 5

Terraform + Docker

Week 09

Terraform IaC Bootcamp

- Terraform Intro, Providers, HCL, Setup
- ✓ Variables, Outputs, Locals, Functions
- ✓ Resources, Modules, Best Practices
- ✓ State Mgmt, Remote Backends, Locking
- ✓ Hands-On Infra Project (Terraform on AWS/GCP)

Week 10

Docker Deep Dive

- ✓ Docker CLI, Images, Containers
- ✓ Dockerfiles, Multi-Stage Builds
- ✓ Volumes, Persistent Storage, Bind Mounts
- ✓ Networking, Exposing Ports, Isolation
- ✓ Docker Compose, Optimization & Security

Phase 6

Kubernetes + Career Prep

Week 11

Kubernetes Core + CI/CD Integration

- ❑ K8s Architecture, Nodes, Kubelet, API Server
- ✓ Pods, Deployments, Services, Namespaces
- ✓ Ingress, Probes, Autoscaling, HPA
- ✓ ConfigMaps, Secrets, Volumes
- ✓ Helm, CI/CD with K8s, Blue/Green Rollouts

Week 12

K8s Advanced + Final Projects + Career Prep

- ✓ StatefulSets, DaemonSets, Jobs, CRDs
- ✓ RBAC, Pod Security, Network Policies
- ✓ Logging, Monitoring, Prometheus + Grafana
- ✓ Resume Reviews, Portfolio Prep, Mock Interviews
- ✓ Capstone Project Showcase, Offer Negotiation Tips

Thank You

for taking the time to explore our syllabus.

Join Waitlist >

Contact Us

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The background features a series of overlapping, semi-transparent geometric shapes in shades of light blue and lavender. These shapes create a dynamic, layered effect, with some areas appearing more saturated than others. The overall composition is clean and modern, typical of a corporate or educational branding design.

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