

← List of 30+ DevOps & Cloud Project Ideas

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Beginner Level Projects:

1. Basic CI/CD Pipeline using GitHub Actions
2. Deploy a Static Website on AWS S3 with CloudFront
3. Automate EC2 Launch with Terraform
4. Monitor a Web Server using Prometheus + Grafana
5. Dockerize a Simple Flask or Node.js App
6. Configure NGINX as Reverse Proxy for a Web App
7. Version Control Workflow with Git + Branch Strategy
8. Run Scheduled Jobs using Cron in Docker
9. Create AWS IAM Policies for Fine-Grained Access
10. Set up Jenkins to Build and Deploy a Java App

Intermediate Level Projects:

11. CI/CD Pipeline with Jenkins + Docker + GitHub
12. End-to-End Monitoring using Prometheus, Grafana & Alertmanager
13. Infrastructure Automation using Terraform on AWS

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15. **Implement GitOps using ArgoCD or Flux**
16. **Use Ansible to Configure and Provision a LAMP Stack**
17. **Create Helm Charts to Deploy an App on Kubernetes**
18. **Deploy a Full-Stack App with Docker-Compose**
19. **Centralized Logging with ELK Stack (Elasticsearch, Logstash, Kibana)**
20. **Auto-Scaling a Web App using AWS ASG + Load Balancer**



Advanced Level Projects:

21. **Multi-Stage Docker Builds for Microservices**
22. **Build and Deploy Serverless App using AWS Lambda + API Gateway**
23. **Kubernetes Blue-Green / Canary Deployment Strategy**
24. **Self-Healing Infrastructure using Terraform + AWS Auto-Recovery**
25. **Setup Kubernetes Cluster on AWS using Kops or EKS**
26. **Zero Downtime Deployment with Spinnaker**
27. **CI/CD for ML Model Deployment using MLflow + Jenkins**
28. **Multi-Cloud Infrastructure Setup using Terraform**
29. **Site Reliability Engineering (SRE) Project with SLIs, SLOs, Error Budgets**
30. **Build Internal DevOps Dashboard for Monitoring All Pipelines**

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32. Disaster Recovery Architecture on AWS with RDS + S3 Backups