

MANISH KUMAR

DevOps & Cloud Engineer | Kubernetes • AWS • Azure • GCP • Terraform • CI/CD

Dwarka, New Delhi, India | +91 9931817280 | manireet0607@gmail.com | linkedin.com/in/manish-kumar-651b572b1 | github.com/manireet0607

70% Faster Server Configuration • Zero-Downtime Kubernetes Rollout • Multi-Cloud: AWS / Azure / GCP

PROFESSIONAL SUMMARY

BCA graduate (2026) who builds production-style infrastructure, not just tutorials: self-managed Kubernetes clusters, Terraform/Ansible automation, and CI/CD pipelines with Jenkins and GitHub Actions. Cut average server configuration time by **70%** through Infrastructure-as-Code automation, and shipped a **zero-downtime** rolling deployment across AWS, Azure, and GCP environments.

CORE COMPETENCIES

AWS • Microsoft Azure • Google Cloud Platform (GCP) • Kubernetes • Docker • Terraform • Ansible • Jenkins • GitHub Actions • GitLab CI • CI/CD Pipelines • Infrastructure as Code (IaC) • Linux Administration • Prometheus & Grafana • Bash & Python Scripting • Networking (DNS, HTTP/S, TCP/IP)

TECHNICAL SKILLS

- **Cloud Platforms:** AWS (EC2, IAM, S3, VPC, Route 53, RDS, DynamoDB, EKS, ECS, ALB); Microsoft Azure (Azure VMs, Azure Storage, Azure DevOps, App Service); GCP (Compute Engine, Cloud Storage, GKE, Cloud IAM, VPC)
- **DevOps & CI/CD:** Jenkins, GitHub Actions, GitLab CI
- **Infrastructure as Code:** Terraform, Ansible
- **Containerization & Orchestration:** Docker, Docker Compose, Kubernetes (kubeadm, kubectl, rolling updates)
- **Operating Systems:** Linux (Ubuntu, Red Hat Enterprise Linux, Amazon Linux 2)
- **Monitoring & Observability:** Prometheus, Grafana
- **Networking & Debugging:** DNS, HTTP/S, TCP/IP, socat, MySQL, DBMS
- **Scripting & Version Control:** Bash, Python, Git, GitHub

HANDS-ON PROJECTS (SELF-DIRECTED)

Kubernetes Rolling Update Deployment on AWS EC2 | Container Orchestration & Cloud Deployment

- Provisioned a self-managed Kubernetes cluster with kubeadm on an AWS EC2 (Amazon Linux 2) instance, configuring all control-plane and node components — kube-apiserver, scheduler, controller-manager, etcd, kubelet, kube-proxy.
- Deployed a static website and exposed it via a Kubernetes NodePort Service (port 80 → 30080), making it publicly reachable without an external load balancer.
- Executed a live, **zero-downtime rolling update** (v1.0 → v2.0) with kubectl set image, tuning maxUnavailable/maxSurge to control pod replacement; validated with socat-based traffic debugging and peer testing.

Automated Server Provisioning with Terraform & Ansible | Infrastructure Automation

- Provisioned AWS EC2 instances using Terraform IaC — version-controlled, repeatable environments across dev and staging, replacing manual instance setup.
- Defined custom VPCs, subnets, and security groups as code to control traffic and isolate environments at the network layer.
- Configured a remote state backend (S3 + DynamoDB locking) to prevent conflicts when collaborating on shared infrastructure.
- Authored Ansible playbooks automating package installation, user configuration, firewall enforcement, and Nginx setup across multiple Linux servers — cutting average server configuration time by **70%**.
- Combined Terraform and Ansible into a single-command provisioning workflow, cutting manual errors across deployments.

Dockerized Flask App with Nginx Reverse Proxy | Containerization & Reverse Proxy Deployment

- Containerized a Python Flask application with a multi-stage Docker build, shrinking image size for faster, lighter deployments.
- Configured Nginx as a reverse proxy and load balancer in a Docker Compose setup, distributing requests across multiple Flask containers for horizontal scalability.
- Managed environment variables and secrets via .env files, following 12-factor app conventions.

EDUCATION

Bachelor of Computer Applications (BCA) — Computer Science & Application 2026

Ganga Institute of Technology and Management, Delhi NCR | CGPA: 7.5/10.0 — NAAC A+ Accredited Institution

CERTIFICATIONS

- AWS Cloud Practitioner Essentials — AWS Training & Certification
- Cloud Computing Fundamentals — IBM SkillsBuild
- DevOps Certification — Ducat Institute

ADDITIONAL TRAINING & COURSES

- Docker & Kubernetes: The Practical Guide
- DevOps Beginners to Advanced with Projects