

SHUBHAM MISHRA

AWS Cloud Infrastructure Specialist | DevOps Engineer

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PROFESSIONAL SUMMARY

AWS Cloud Infrastructure Specialist with 2.5+ years of hands-on experience architecting, implementing, and operating enterprise-grade cloud solutions in mission-critical production environments. Currently supporting the Bombay Stock Exchange's IIRA application—a high-availability, zero-tolerance financial trading system requiring 24x7 uptime and regulatory compliance.

Proven expertise across the full AWS infrastructure stack including VPC architecture, hybrid connectivity (Direct Connect, Transit Gateway), security hardening (IAM, WAF, GuardDuty), automation (Terraform, CI/CD), and production operations. Track record of delivering cloud migration projects, disaster recovery solutions, and cost optimization initiatives that drive measurable business value in regulated financial environments.

TECHNICAL EXPERTISE

AWS Core Services	EC2, S3, RDS (PostgreSQL/MySQL), Lambda, ECS/Fargate, ALB/NLB, CloudFront, Route 53, CloudWatch, CloudTrail, Systems Manager, AWS Backup
Networking & Connectivity	VPC, Subnets, Transit Gateway, Direct Connect, VPN, NAT Gateway, VPC Peering, VPC Endpoints, Network ACLs, Security Groups, Route Tables, Firewall Configuration
Security & Compliance	IAM (Roles, Policies, Identity Federation), AWS Organizations, Security Groups, NACLs, WAF, GuardDuty, Security Hub, KMS, Secrets Manager, Audit & Compliance Support
Infrastructure as Code	Terraform (Modules, State Management, Workspaces), AWS CloudFormation, Infrastructure Automation, Repeatable Environment Provisioning
DevOps & Automation	Jenkins, GitHub Actions, AWS CodePipeline, CI/CD Pipeline Design, Docker, ECS/ECR, Python, Bash/Shell Scripting, Git, YAML
Operations & Reliability	24x7 Production Support, Incident Management, RCA, Disaster Recovery Planning, Backup & Restore, High Availability Design, Cost Optimization, Performance Monitoring

PROFESSIONAL EXPERIENCE

Cloud Infrastructure Engineer | Noventiq (Client: Bombay Stock Exchange)

November 2024 – Present | Mumbai, India

Operating and supporting mission-critical IIRA (Integrated Index & Risk Analysis) application infrastructure at India's leading stock exchange, ensuring 24x7 availability, regulatory compliance, and zero-tolerance for downtime in live trading environments.

- Architected and operate enterprise-grade AWS infrastructure supporting high-availability exchange trading systems with complex VPC networking, multi-tier security architecture, and controlled routing through firewall inspection zones for regulatory compliance
- Manage AWS core services including EC2 compute clusters, VPC network segmentation, security groups, IAM role-based access controls, CloudWatch monitoring, and automated backup solutions ensuring operational resilience and audit readiness

- Orchestrate production deployments, change management processes, and validation testing across production and UAT environments while maintaining zero unplanned downtime through rigorous testing protocols and rollback procedures
- Lead incident response and root cause analysis (RCA) activities for production issues, implementing preventive measures that reduced incident recurrence by 40% through infrastructure hardening and automated monitoring alerts
- Coordinate cross-functional collaboration with BSE network teams, application development teams, and security operations during critical releases, maintenance windows, and security audits, ensuring seamless communication and operational continuity
- Maintain exchange connectivity architecture involving Direct Connect links, secure network segmentation, and firewall policies that meet SEBI regulatory requirements and exchange-grade security standards

Cloud & DevOps Consultant | Quinnox Consultancy Services (Client: Prudential Financial)

August 2022 – October 2024 | Mumbai, India

Delivered end-to-end AWS cloud infrastructure solutions, automation pipelines, and migration projects for Fortune 500 financial services client, focusing on scalability, security, and operational excellence.

- Architected enterprise-grade AWS networking infrastructure using VPC, Transit Gateway, Direct Connect, and NAT Gateway to establish secure hybrid cloud connectivity between on-premises data centers and AWS, supporting 500+ users and mission-critical workloads
- Executed large-scale cloud migration project, migrating 25+ applications and 50TB of data from AWS RDS to GCP CloudSQL using AWS Database Migration Service (DMS) with zero data loss and minimal downtime during cutover windows
- Implemented comprehensive disaster recovery strategy using automated EBS snapshots, RDS backups, and cross-region replication, improving Recovery Time Objective (RTO) from 8 hours to 45 minutes and Recovery Point Objective (RPO) from 24 hours to 1 hour—a 90% improvement
- Optimized cloud costs by 30% (\$45K annual savings) through implementation of VPC Endpoints for S3/DynamoDB, rightsizing EC2 instances based on CloudWatch metrics, and consolidating NAT Gateway usage across multiple availability zones
- Built production-grade Infrastructure as Code (IaC) using Terraform modules for repeatable environment provisioning, managing 100+ resources across development, staging, and production environments with state management and version control
- Designed and deployed containerized microservices architecture on AWS ECS Fargate with ALB routing, ECR image registry, and RDS PostgreSQL backend, supporting a modular monolith application serving 10,000+ daily users
- Engineered automated CI/CD pipelines using Jenkins, AWS CodePipeline, and GitHub Actions for Docker-based deployments to ECS, reducing deployment time from 2 hours to 15 minutes and eliminating manual deployment errors
- Strengthened security posture by implementing IAM role-based access control, AWS WAF rules for web application firewall protection, GuardDuty threat detection, and Security Groups configured with principle of least privilege, achieving 100% compliance in quarterly security audits
- Automated operational tasks using Python and Bash scripts including Lambda functions for scheduled EBS snapshots, S3 lifecycle policies, and CloudWatch log aggregation, reducing manual operational overhead by 60%
- Maintained 99.9% uptime SLA for production systems through proactive monitoring using CloudWatch dashboards, CloudTrail audit logs, custom metric alarms, and on-call incident response procedures

KEY PROJECTS & ACHIEVEMENTS

- **Multi-Cloud Migration:** Led AWS to GCP database migration using DMS for 50TB data transfer with zero data loss, comprehensive validation testing, and detailed runbook documentation for future migrations
- **Hybrid Cloud Architecture:** Designed enterprise network architecture integrating AWS Transit Gateway, Direct Connect circuits, and VPN connections for secure multi-VPC connectivity supporting regulatory compliance requirements
- **Cost Optimization Initiative:** Achieved 30% infrastructure cost reduction through strategic use of VPC Endpoints, Reserved Instances, and automated resource scheduling, saving \$45,000 annually
- **Disaster Recovery Implementation:** Architected and tested DR solution with automated backup orchestration, cross-region replication, and documented recovery procedures, improving RTO/RPO by 90%

CERTIFICATIONS

- **AWS Certified Solutions Architect – Associate (In Progress, Expected: March 2025)**

EDUCATION

Bachelor of Engineering in Computer Engineering

Mumbai University | Graduated: June 2022

RECOGNITION & AWARDS

- **Spot Team Award for Outstanding Performance in Project Delivery and Client Satisfaction at Quinnox Consultancy Services (2023)**