

Kashinath Meshram

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Profile Summary

Aspiring cloud and DevOps enthusiast with over 8 months of hands-on experience in building robust, secure, and scalable infrastructure. Proficient in various DevOps tools and cloud services. Committed to continuous learning and growth.

Work Experience

DevOps Intern, Intellipaat Software Solution Pvt. Ltd.

August 2023 - Present

Gaining extensive hands-on experience in:

- Managing infrastructure using Terraform for consistent provisioning.
- I oversaw virtual machines, databases, storage, and virtual networks.
- Utilized Docker and Kubernetes for scalable deployments.
- Administered MySQL, PostgreSQL, and MongoDB for performance tuning and recovery.
- Configured systems to ensure high availability and performance.
- Developed automation scripts with Bash and PowerShell for efficient deployments.
- Ensured secure and efficient communication between services.
- Automated setups using Ansible for consistency across environments.

Skills

- **Cloud Platform Provisioning:** AWS EC2, AWS VPC, AWS RDS, AWS S3, etc.
- **Infrastructure as Code (IaC):** Terraform, Ansible
- **CI/CD Pipelines:** Jenkins, AWS CodeBuild, AWS CodePipeline
- **Containerization:** Docker, Kubernetes (K8s)
- **Monitoring and Logging:** Prometheus, Grafana, AWS CloudWatch
- **Security and Compliance:** AWS IAM, SonarQube, Trivy, VAULT
- **Version Control:** Git, AWS CodeCommit
- **Scripting and Automation:** Python, Bash
- **Operating Systems:** Windows, Linux
- **Servers:** Apache, Nginx
- **Databases:** MySQL, DynamoDB, AWS RDS

Certifications

- AWS Solutions Architect -Associate
- DevOps Training -Intellipaat Software Solutions Pvt. Ltd.

PROJECTS

PROJECT1 | DevSecOps Project: Deploying Netflix Clone on Cloud using Jenkins

Implemented a comprehensive DevSecOps pipeline to deploy a Netflix clone on the cloud infrastructure using Jenkins as the automation engine.

Key Achievements:

- Orchestrated the setup and deployment of a Netflix clone application on AWS EC2 instances.
- Integrated Docker for containerization, facilitating efficient application packaging and deployment.
- Implemented vulnerability scanning using SonarQube and Trivy to ensure robust security posture.
- Established CI/CD pipelines in Jenkins for automated testing and deployment workflows.
- Configured Prometheus and Grafana for real-time monitoring and visualization of application metrics.
- Utilized Kubernetes for container orchestration, ensuring scalability and high availability.
- Orchestrated the installation of Node Exporter using Helm to collect system-level metrics from Kubernetes nodes.

- Implemented email notifications in Jenkins for timely alerts and notifications.
- Created a Kubernetes cluster with node groups, leveraging Helm for streamlined management.
- Completed project cleanup, including termination of unnecessary AWS EC2 instances, ensuring cost optimization.

PROJECT2 | Implementing Automated Deployment and Scaling with Using DevOps Practices

- Established Git workflow for version control, enabling efficient collaboration and code management.
- Containerized application code using Docker, ensuring consistency and portability across environments.
- Orchestrated automated scaling of application containers with Kubernetes, optimizing resource utilization.
- Provisioned and managed infrastructure on AWS cloud using Terraform, enhancing repeatability and scalability.
- Set up CI/CD pipeline with Jenkins for automated build, test, and deployment processes.
- Implemented monitoring and logging using AWS CloudWatch, ensuring real-time visibility into application performance.
- Ensured security and compliance by implementing role-based access control (RBAC) and encryption measures.
- Documented project configurations and procedures for reference and knowledge sharing.

PROJECT3 | Implementing CICD Pipeline for sample Software's Website using DevOps Practices

- Implemented Git workflow for version control, streamlining code collaboration and management.
- Automated CodeBuild triggered by commits to specific branches, enhancing development efficiency.
- Containerized application using Docker and automated Dockerfile builds, ensuring consistency and reliability.
- Defined Jenkins Pipeline with distinct jobs for building, testing, and deploying the application.
- Integrated Git webhooks to trigger automated builds and tests upon code commits.
- Documented deployment procedures and troubleshooting guidelines for team reference.
- Conducted internal training sessions to disseminate best practices and enhance team skills.
- Ensured compliance with security standards and regulations by implementing security controls.

Project 4 | Secure Online Patient Report Delivery Platform Using AWS Services

- Established secure and scalable infrastructure on AWS for patient report delivery platform.
- Integrated AWS CloudFormation for automated VPC creation and management, enhancing infrastructure agility.
- Configured AWS SNS for private message publication, ensuring confidentiality and integrity.
- Developed user-friendly platform for patients to access reports securely via web and mobile devices.
- Implemented push notifications to alert patients about new reports in real-time.
- Conducted security assessments and implemented security measures to protect sensitive patient data.
- Documented platform architecture and security configurations for compliance and audit purposes.
- Collaborated with cross-functional teams to ensure successful platform deployment and operations.

Project 5 | Building Scalable Infrastructure on AWS with Terraform

- Utilized Terraform as the infrastructure provisioning tool to define and manage AWS resources.
- Implemented a modular and scalable architecture using Terraform modules for resource provisioning.
- Leveraged Terraform state files to maintain infrastructure state and track resource changes.
- Organized Terraform code into reusable modules and maintained version control using Git.
- Implemented best practices such as state locking, remote state storage, and parameterization for security and efficiency.
- Utilized Terraform's declarative syntax to define infrastructure configurations and dependencies.

EDUCATION

Bachelor of Engineering- RTMNU

Feb 2021 - July 2023

K. D. K College of Engineering ,Nagpur,Maharastra - **8.2/10 GPA**