Pradhumna Banerji

DEVOPS ENGINEER

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Profile

Dynamic Cloud and DevOps Engineer with 2.5 years of comprehensive experience in cloud computing, container orchestration, CI/CD pipeline setup, and infrastructure as code. Adept at building scalable platforms, automating processes, and enhancing system reliability. Proficient in AWS, Kubernetes, Docker, and Python with a proven track record in implementing industry best practices and troubleshooting complex issues.

Experience

Devops Engineer **DELHIVERY**, Gurugram July 2024 – Present

- Actively assisted developers in troubleshooting and resolving **complex DevOps issues**, ensuring smooth workflows and minimizing downtime.
- Efficiently upgraded **RDS, DocumentDB, Elasticsearch, EKS clusters**, and Ubuntu versions with minimal disruption, ensuring high availability and system stability.
- Setup alerts and all Kubernetes clusters with the help of **Prometheus** and **Alertmanager** for better observability of pods and nodes.

Devops Engineer **ADDA247**, Gurugram July 2023 – July 2024

- Orchestrated containerized applications using **Kubernetes**, enhancing scalability and resource management.
- Developed and maintained robust **CI/CD pipelines** using Jenkins and GitLab CI/CD, reducing deployment time by 50%.
- Utilized Prometheus and Grafana for monitoring system performance and reliability, achieving 99.9% uptime.
- Automated infrastructure provisioning and management with **Terraform**, increasing efficiency and consistency.

Education

B.Tech (Computer Science) GLA UNIVERSITY, July 2019 – May 2023

Skills

AWS Azure GCP Linux Docker Kubernetes Python Java Bash MySQL Jenkins CI/CD Pipeline Git DEVTRON Github Terraform Grafana Kibana New Relic

Awards & Certifications

- AWS Certified Cloud Practitioner
- Microsoft Certified: Azure Fundamentals
- Oracle Cloud Infrastructure Foundations
- The Commitment Coin Award

Projects

Scalable Kubernetes Deployment with Automated CI/CD Pipeline July 2023 – September 2023 Professional Project

- Developed a highly scalable deployment system using Kubernetes for microservices architecture, enabling zero-downtime rollouts.
- Integrated Jenkins and GitLab CI/CD pipelines to automate the build, test, and deployment processes, resulting in a 50% reduction in deployment time.
- Automated cluster provisioning and scaling with Terraform, ensuring consistency and efficiency across all environments.

Key Achievements:

- Designed and deployed automated CI/CD pipelines for microservices.
- Utilized Helm charts for simplified Kubernetes deployments.
- Integrated Prometheus and Grafana for enhanced real-time monitoring and alerting.

Centralized Logging and Monitoring System for Microservices October 2023 – December 2023 Professional Project

- Created a centralized logging and monitoring system using AWS EKS, Prometheus, Grafana, and the ELK Stack (Elasticsearch, Logstash, Kibana) for a more efficient incident response system.
- This system improved observability, reduced the mean time to detect (MTTD) issues by 40%, and maintained 99.9% uptime.

- Automated infrastructure management with Terraform, ensuring consistency and reliability across environments.

Key Achievements:

- Centralized logs and metrics for more efficient troubleshooting.
- Set up real-time alerts using Prometheus Alertmanager to monitor critical microservices.
- Automated provisioning and scaling of infrastructure with Terraform.

Cloud Infrastructure Automation with Terraform and AWSJanuary 2024 – March 2024Personal Project

- Developed an infrastructure-as-code solution using Terraform to automate the provisioning of cloud infrastructure in AWS.
- Designed reusable modules for EC2, S3, and VPC components, significantly reducing manual intervention.
- Integrated CloudWatch for logging and SNS for real-time notifications, enhancing infrastructure management and operational efficiency.

Key Achievements:

- Automated provisioning of infrastructure on AWS using Terraform.
- Implemented CloudWatch for infrastructure monitoring and SNS for notifications.
- Achieved reusable infrastructure modules, reducing setup time by 70%.