MANSI KUKRETI

DEVOPS ENGINEER

PROFILE

Currently working as a DevOps Engineer in Paytm with hands-on experience in automating, optimizing, architecting critical deployments, leveraging configuration management, CI/CD, DevOps processes, and provisioning the infrastructure to achieve 100% uptime, high availability as well as fault-tolerant.

CONTACT

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TECHNICAL SKILLS

- **Laungages:** Python, Bash
- **Cloud:** AWS (EC2, EMR, Beanstalk, VPC, S3, CloudWatch, EMR, CloudTrail, IAM, AutoScaling, ACM, Route53, KMS,Cost Explorer,Lambda, Trusted Advisor,Cloud Formation,Cloud Front, SNS, SQS, RDS, Trusted Advisor, Cost Explorer, Auto Scaling, ELB, EFS and others.)
- **Devops Tools:** Ansible, Terraform, Jenkins, Packer
- **Version Control System:** GIT,GitHub,BitBucket
- **Monitoring**: Datadog, Prometheus,CloudWatch
- **Log Management :** ELK, EFK
- **Operating System :** Ubuntu, Cent-OS
- **Containerization:** Docker
- **Caching**: Redis
- **Services:** EMR, Hadoop,Airflow,Azkaban
- **Application Deployment:** Java,Spring boot,python,nodeJS
- **Networking**
- **System Management and Administration**

EXPERIENCE

Devops Engineer   **June 2019 to Present**
Paytm

- Architect **scalable** & **Immutable** infrastrucutre on **AWS** cloud with automation and orchestration tools such as **Terraform** along with Ansible for configuration management and implemented **CI/CD** workflow on it.
- Implementation of **monitoring**, **alerting** and **Grafana dash**boards for system, application ,service level metrics and exposing the JMX Metrics using **DataDog, Cloud Watch and Prometheus** .
- End to end implementation of single click secured and centralised **ELK +Kafka** cluster with scalability, high availability and automated for **log management** using Ansible,Bash and Terraform.
- Provided **PAAS** solution to onboard new services to **ELK** using Jenkins and Docker.
- Provisioned on-boarding of new applications on **Elastic Beanstalk** with **CI/CD** principles,monitoring and alerting through **Cloud Watch**.
- Setup of **multi-tenant**, **auto-scalable**,Airflow Cluster using virtual env with Ansible automation.
- **Automated** end to end **spring boot** application deployment with automatic rollback,**rolling-deployment**, **build**, health-check and other functionalities with all **CI/CD** pipelines.
- Creation of central AMI through packer with **kernel tuning**, **OS hardening,** LDAP ,monitoring,log-rotate enabled which systemized and reduced manual work upto **80%**.
- Developing **reusable** Infrastructure as code from scratch for various AWS services for end-to-end Infra Automation using **Terraform (IAAC),Packer**.
- Automated weekly cost report and Dashboards using **Cost Explorer** for cost analysis which reduced cost upto **30%**.
- **Troubleshooting** critical production issues including performance and functional issues.

Defence Research And Development Organization

- Worked on multi-layer intrusion detection using tool SNORT for real time traffic monitoring and analysis of TCP packets.

Architecting on AWS

- Learnt about the best practices that can be used to architect in AWS with a automated and a optimized approach.

DUCAT

- Learnt Core JAVA, API development, DBMS, and java frameworks like Spring and Hibernate.

Strengths

- Team Work.
- Leadership Skills.
- Innovative
- Good Analytical Skills
- Comprehensive problem solving activity.

- Volunteered in National Conference on Advances in Computing and Communication.(NCACC)
- Actively participated in college technical society S.P.I.
- Conducted hackathon for I.T. department.

- Setup of 3 node HA **Redis** cluster and **Redis Sentinel** with authorization and redis monitoring using Ansible.
- Configured **Ansible Automation** for manual SSH access requests, using OpenLDAP Server User Authentication.
- Analysing unused applications running across various AWS accounts through **Trusted Advisor** and custom monitoring of applications to reduce costs.
- Ansible automation for creation and management of **Hadoop Clusters** with blueprints for running **spark workloads**.
- Configured transient **AWS EMR** cluster via airflow DAG's to submit jobs which have reduced the cost up-to **80%**.
- Configured various **data pipelines(CI/CD)** using **Groovy** for end-to-end deployment on **AWS EMR/Airflow/Azkaban** which is widely being used for **Big Data Analysi**s.
- Configure **AWS Lambda** to schedule power off/on instances in non-business hours.
- Written various **Bash/Python** scripts to manage infrastructure and deployments.
- Continuous **patching** and **auditing** of server to find **vulnerabilities** and taking action against them.
- Documented architectural diagrams, workflows, run-books, setup guides timely.

Software Development Intern   Jan 2019 to May 2019
Lattice Innovations

- Responsible for creating/handling the db schema.
- Involved in designing and developing different API with minimal response time.
- Ensured a good architecture, high optimization, clean layouts, structured and modularized code.

Full Stack Developer Intern   June 2018 to August 2018
Fundwave || Fund Administration Co.

- Responsible for designing and building UI screens, creating web-services, working on the class design, database schemes.
- Creation of API's for importing data from CSV and pushing them into DB.

- Rewarded as **RISING STAR** performer for extra-ordinary performance in automation of projects.

- 2012-2013   10th Class (C.B.S.E)   8.0(CGPA)
- 2014-2015   12th Class (C.B.S.E)   83.83%
- 2015 - 2019   B-Tech in I.T (GGSIPU)   80.00