Akash Singh

DevOps Engineer/Site Reliability Engineer

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Profile Summary

- Having about 2.6 years of experience as a DevOps/SRE Engineer in various DevOps/SRE technologies and in AWS/HWS/GCP cloud.
- Understanding the client environment, Administrating and creating solutions using Jenkins, Kubernetes, GIT, Ansible, Maven, Dockers, Terraform.
- Good knowledge on AWS Services provisioning and Managing SNS, SQS, SSM, DynamoDB, Lambda, EC2, EBS, IAM, S3, VPC, Workspaces, EKS,MSK, Cloud Formation, VPC, Elastic IPs, DHCP, Route53, Gateways, VPC pairing, Direct Connect, DGW, Cloud front, Elastic Load balancer etc..
- Hands on expertise to set up, configure continuous build and Deployment processes (CI/CD)using Jenkins, Git, Maven, Ansible.
- Experienced in packing the applications as Docker images using DockerFile and deploying it into the Kubernetes cluster.
- Experienced in configuring and monitoring Kubernetes cluster.
- Experienced SRE skilled in optimizing infrastructure, enhancing system reliability, and driving operational efficiency to deliver seamless and scalable solutions.

Technical Skills

Operating system: Linux, Ubuntu.
Build tool: Maven, ANT.
Artifact Repository: Nexus.
Version control Systems: Git, SVN, Bitbucket.
Configuration management tools: Ansible, Terraform, AWS CloudFormation.
Web server: Tomcat, Nginx.
CI/CD tools: Jenkins, Gitlab CI.

Monitoring Tools: Nagios, Kibana, Grafana and Splunk.
Cloud: AWS, HWS, GCP.
Ticketing tools: JIRA.
Orchestration technologies: Docker compose, Kubernetes.
Scripting languages: Shell, Python.
Messaging and Streaming Platform: Kafka.

Professional Experience

11/2023 – present
Bangalore, India

DevOps Engineer
Trustonic (Client)
- Foster collaboration with development and operations teams, identifying process optimizations and streamlining initiatives.
- Design and implement robust CI/CD pipelines using Jenkins or Gitlab CI.
- Automate infrastructure deployment using tools like Ansible, Terraform, or AWS CloudFormation.
- Efficiently manage and automate configuration using Ansible, leveraging Terraform or AWS CloudFormation.
- Develop and maintain comprehensive monitoring and alerting systems with Nagios, Kibana, Grafana, and Splunk.
- Proficiently troubleshoot and resolve intricate technical problems across Linux and Ubuntu platforms.
- Utilize Maven and ANT as build tools, Nexus as an artifact repository, and Git, SVN, or Bitbucket for version control.

- Deploy applications on web servers such as Tomcat or Nginx.
- Utilize cloud platforms like AWS, HWS, or GCP for hosting infrastructure.
- Integrate ticketing systems like JIRA for issue tracking.
- Leverage Docker Compose or Kubernetes for orchestration.
- Utilize scripting languages like Shell and Python for automation tasks.

06/2021 – 10/2022
Bengaluru, India

Site Reliability Engineer at Huawei Technologies Consumer Cloud Service
Huawei Technologies (Client)
Huawei Technologies India Private Limited[Offshore]
1. Automatic Deployment through IaC - Automatic Ops Capability (SD Process)
2. Automatic Monitoring—Automatic Alarm and Monitoring Capability (ITR Process):
Manage incident lifecycle, communication, and post-mortem analysis.
Define and measure SLO, SLI, SLA, and error budgets.
Reduce toil through automation and process improvement
Develop and maintain SLO and APM performance-driven dashboards.
3. Understand CI/CD Pipelines for software delivery(HWS/AWS) and how to identify problems from source code.
4. Proactive Discovery Capability (BCM)
5. Data-Based and Intelligent Ops Capabilities (AIOps)
6. Ops Security Capability
7. Process & Specifications
8. Global and Highly Reliable Deployment
9. Ops Platform:
Collaborate closely with Product, Development, Quality, and Ops teams to ensure that designed solutions respond to non-functional requirements such as availability, performance, cost, security, and maintainability, achieving speed to market and quality to Engineering departments.
10. Responsibilities for deployments and change operations: Incident management ITIL process experience. Leading incident calls and driving to resolution.
Mentoring junior engineers on processes and methodologies.
11. Platform and technology experience patching old tools, and automation, and providing application/infrastructure support, troubleshooting, and remediation for all severity issues. On-call, 24*7 activities.
12. Utilized Kafka as a high-throughput, fault-tolerant messaging system, facilitating real-time data processing.

Education

08/2016 – 11/2020
New Delhi, India

Bachelor of technology in Computer Science and Engineering
Guru Gobind Singh Indraprastha University

Certificates

AWS Certified Cloud Practitioner ⟋
Issued by Amazon Web Services Training and Certification

AWS Certified Solutions Architect : Learning ⟋
Issued by Amazon Web Services Training and Certification

NDG Linux Unhatch ⟋
Issued by Cisco Networking Academy