Alekhya Jonnagaddala
DevOps Engineer

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SUMMARY

- Overall, 2 years 8 months of experience as an IT professional as a DevOps Engineer working on AWS Cloud and Container technologies.
- Good knowledge of Amazon Web Services (AWS) and Amazon Cloud Services like Elastic Compute Cloud (EC2), Simple Storage Service(S3), Amazon Simple DB, Amazon Cloud Watch, SNS, SQS, and LAMBDA, and experience building highly scalable Java applications using various architectures.
- Experienced in Amazon EC2 setting up instances, virtual private cloud (VPCs), and security groups.
- Experienced with event-driven and scheduled AWS Lambda functions to trigger various AWS resources.
- Good Knowledge in writing/Working with the scripts in Python, Ruby, and Shell Scripts for managing various enterprise applications.
- Strong use of Shell scripting languages including BASH for Linux and Mac platforms and PowerShell for Windows systems and automation of scripts using Python.
- Experience in working with AWS EC2 and CloudWatch services. CI/CD pipeline management through Jenkins. Automation of manual Tasks using Shell scripting.
- Experience in using DevOps tools like GitHub, Jenkins, and CI/CD pipelines.
- Experience with provisioning configuration management, and containerization solutions such as Terraform, Chef, Puppet, Ansible, Docker, or similar technologies.
- Familiar with CloudWatch, Elastic IPs, and managing security groups for EC2 Servers.
- Hands-on experience with the AWS CLI and SDKs/API tools.
- Good working experience on Container specific tools like Docker, Kubernetes (K8s), Ansible, and Helm for deployments.
- Experienced in building Docker images from Docker files and reusing pulled images from Docker Hub.
- Skilled with Python, Bash/Shell, PowerShell, Ruby, Perl, JSON, YAML, and Groovy.
- Worked on running Docker containers from Docker images with port and network config specifications.
- Experienced in deploying applications or docker images onto Kubernetes clusters by setting parameters via YAML configurations.
- Extensively worked on Jenkins, Bit Bucket, and Bamboo for continuous integration, Docker for different infrastructure setups, and End-to-End automation.
- Installation and upgrade of Packages and Patches, configuration management, version control, service packs, and reviewing connectivity issues regarding security problems.
- Experience in installing firmware upgrades, kernel patches, and configuration of systems on Unix/Linux systems.
- Demonstrated ability to work under tough deadlines/pressure
- Strong analytical, problem-solving solving & programming skills, cohesive team worker with exceptional planning & execution skills.

EDUCATION

SAINT CLOUD STATE UNIVERSITY   **May 2025**
 Master's in information assurance
 GPA:3.8/4
K S SCHOOL OF ENGINEERING AND MANAGEMENT   **May 2019**
 Bachelor of Engineering in Electronics and Communication Engineering
 GPA:3.62/4

INTERNSHIPS

- completed and secured a certificate of one-month internship on "Machine Learning using Python", Bangalore, India in January 2019 as a Software Developer Intern.
- completed and secured a certificate of one-month internship on "Grail's application in Java, Bangalore, India in August 2018.

TECHNICAL SKILLS

Cloud Infrastructure	Microsoft Azure, Amazon Web Services
AWS Tools	EC2, IAM, S3, Lambda, CloudWatch, Redshift, Dynamo DB, SNS, SQS, SES, EMR, Elastic Beanstalk, VPC, ELB, RDS, EBS, System Manager and Route 53
Version Control Tools	GIT, GitHub, SVN, Bitbucket
CI/CD Tools	Jenkins, Bamboo
Bug Tracking Tools	JIRA
Operating Systems	Windows, Linux & Mac
Programming/ Scripting Languages	Python, Bash, Shell, Ruby, Java and Bash
Databases	MySQL, DynamoDB, MongoDB
Web/ Application Servers	Tomcat, WebLogic, JBoss and WebSphere
Containerization Tool	Docker, Kubernetes services, Ansible, Helm
Configure Management Tools And IAC	Chef, Puppet, and Ansible. Terraform and Cloud Formation.
Monitoring Tools	Grafana, Prometheus, AWS CloudWatch
Virtualization	VMware Workstation, Oracle Virtual Box , VS code
Network Protocols	TCP/IP, FTP, SSH, DNS, TELNET, HTTP, HTTPS, LOAD BALANCING, VPN, FIREWALL, SUBNETS

WORK EXPERIENCE

DevOps Engineer | TechMahindra Private Limited | INDIA   **Dec 2019 to Jul 2022**

- Designed, implemented, and managed AWS infrastructure, leveraging services such as EC2, S3, RDS, Lambda, and VPCs.
- Orchestrated and maintained AWS resources using Infrastructure as Code (IaC) Cloud Formation.
- Implemented Infrastructure as Code (IaC) using the tool AWS CloudFormation templates to automate infrastructure deployment.
- Developed and executed cloud strategies aligned with business goals, ensuring seamless migration and integration of applications to the cloud.
- Ensured robust security measures by designing and implementing cloud security architectures, including IAM, encryption, and network security controls.
- Designed and implemented monitoring and performance tuning strategies to ensure optimal cloud-based applications and services operation.
- Monitored and optimized cloud costs by implementing cost-saving strategies such as rightsizing, reserved instances, and efficient storage management.
- Integrated cloud services with on-premises systems and third-party applications, enabling hybrid cloud environments and seamless data flow.
- Developed automated monitoring, alerting, and logging solutions using tools like AWS CloudWatch, and ELK Stack.
- Established CI/CD pipelines for automated code deployment and testing using tools like Team city and Harness.
- Orchestrated and managed Docker containers in production environments using Amazon EKS.
- Implemented containerization strategies to improve scalability, portability, and resource utilization.
- Worked with Docker and Kubernetes on multiple cloud providers, from helping developers build and containerize their application (CI/CD) to deploying either on public or private cloud.
- Migrated the CI/CD tool from Team City to Harness for all the Appci's and application services.
- Implemented log management strategies to analyze and troubleshoot issues efficiently.
- Automated infrastructure deployment (IaaS) using AWS cloud formation, enabling consistent and reliable provisioning of cloud resources.
- Implemented IAM, network security, and encryption best practices to secure IaaS environments, ensuring compliance with regulatory requirements.
- Developed and maintained a suite of Helm charts for deploying microservices on EKS, standardizing and simplifying the deployment process.
- Utilized Helm charts for packaging, deploying, and managing Kubernetes applications on EKS.
- Deployed applications on EKS using Kubernetes Deployment objects and Helm charts, implementing rolling updates and blue- green deployments.

- Implemented security best practices and compliance policies in AWS environments. Conducted regular security audits and vulnerability assessments to ensure a secure infrastructure.
- Implemented cost-effective solutions by optimizing resource allocation, leveraging reserved instances, and using auto-scaling efficiently. Conducted cost analysis and provided recommendations for optimizing cloud expenditure.
- Designed and implemented disaster recovery plans to ensure business continuity in case of system failures.
- Implemented high-availability architectures for critical applications to minimize downtime.

COURSES

- JAN 2020- MAR 2020

AWS Certified Solutions Architect at Udemy

CERTIFICATIONS

- AWS CERTIFIED SOLUTIONS ARCHITECT

Obtained AWS Certified Solutions Architect certification.