

# Deepak Kumar Sahu

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## Summary

- Having more 7 years of work experience in Amazon Web Services and DevOps tools.
- Building Cloud architecture for scalable solutions - Good experience in AWS and building highly available solutions in cloud.
- Continuous Delivery - Experience working in continuous delivery model, which includes tools like Git, Jira, Ant, Maven, Jenkins, Ansible, Spinnaker, Docker and Kubernetes.
- Project Management - Using Jira for bug tracking, issue tracking, and project management.
- Version Control System and Source Code Management - Git and Github.
- Continuous Integration - building Jenkins Pipeline for continuous integration.
- Build Tool - Using Ant and Maven for the build process.
- Configuration management - Good experience in Ansible and automation in multi-tier applications.
- Scripting - Using Shell scripting or Python Scripting to automate manual work.
- Multi Cloud Deployment Tool – Having experience on building deployment pipelines using Spinnaker.
- Container and Orchestration – Using Docker and Kubernetes clusters for our environments.

## Experience

### Senior DevOps Engineer

Paytm E-Commerce Pvt. Ltd

Apr 2021 - Present (1 year +)

- Experience working with Paytm DevOps team.
- Working with various open source tools and AWS cloud platform.
- Having experience on migrating EC2 applications to Kubernetes cluster.
- Experience on writing Dockerfile and validating it for onboarding it to k8s.
- Working on istio service mesh which includes istio proxy, virtual service and gateway.
- Troubleshooting different types of on-call related issues.
- Having experience on nginx and istio ingress.
- Using Ansible to provision Stateful applications such as Python, Java and Nodejs and Stateless applications like kafka, zookeeper, redis, elasticsearch.
- Setting up CI/CD using bitbucket and jenkins.
- Using filebeat and ELK stack for the logs management.
- Having experience on working and configuring monitoring system with telegraf, datadog, alertmanager, cloudwatch, thanos, prometheus and grafana.
- Using various AWS services like EC2, S3, IAM, ELB, ASG, SNS, SMS, Lambda, Cloudwatch, Sagemaker, EMR, VPC, ECR, EKS.
- Writing Python and bash script for the automation.



### Cloud DevOps Engineer

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Sep 2019 - Apr 2021 (1 year 8 months)

- Experience working with Data Analytics & Business Intelligence team.

- Working with Sisense tool in Dev, Sandbox, Staging and Production environments which is hosted in AWS.
- Working with Kubernetes clusters and maintaining it in AWS EKS and in BareMetal.
- Experience of creating clusters using eksctl tool in AWS EKS.
- Having experience on writing manifest files for different resources in Kubernetes.
- Using Helm chart to deploy our Sisense package to Kubernetes cluster.
- Having experience on working with Terraform to provision various resources in AWS.
- Writing Python API scripts for automation of Sisense environments.



## **Senior Software Engineer**

### **Samsung R&D Institute India**

Jan 2018 - Sep 2019 (1 year 9 months)

- Experience working in Continuous Integration and Continuous Delivery model, which includes tools like Jira, Git, Maven, Jenkins, Ansible, Spinnaker and Docker.
- Experience in using GIT for Version Control.
- Creating freestyle projects and pipelines in Jenkins to build and deploy web applications to different environment like Dev, QA, Staging and Prod.
- Writing Jenkinsfile for CI/CD Pipeline.
- Managing Jenkins Users and Security. Having knowledge on Jenkins Operation Centre with High Availability and Jenkins Master-Slave architecture.
- Having exposure to tools like Jira for Task/Bug Tracking, SonarQube for Static Code Analysis, Nexus for Artifacts Repository Management and JaCoCo for Code Coverage.
- Writing Maven script according to the requirement and integrating with Jenkins for continuous integration process.
- Understanding of java, xml, groovy, json and yaml codes.
- Having experience of executing Ansible Ad-Hoc commands and playbooks against multiple nodes.
- Experience in using Docker Container in test environment.
- Experience in writing Dockerfile to build Docker Container.
- Have experience on tomcat application server.
- Having experience on Linux Administration and writing shell scripts.
- Experience of AWS services like EC2, S3, ELB, Autoscaling, Route53, RDS, IAM, VPC.
- Working in IAM user, group, roles and polices also creating S3 bucket policies with JSON script.
- Creating different record sets for hosted zones in Route53.
- Administering & setting up VPCs specific to environment and its components i.e. IGW, Subnets, NAT Gateway, VGW, Route Tables, Security Groups, NACL.
- Have written Python scripts for Cost Optimization in our AWS environment.

## **AWS DevOps Engineer**

### **Hewlett Packard Enterprise**

Jan 2016 - Jan 2018 (2 years 1 month)

- Experience in environment set-up in AWS.
- Using different types of AWS AMI, mostly Ubuntu and RedHat.
- Experience working in continues delivery model, which includes tools like Git, Ant, Jenkins and Ansible.
- Using Github for Source Code Management.
- Creating freestyle jobs in Jenkins to deploy web applications to the tomcat container.
- Integrated various tools with Jenkins for CI/CD process.
- Writing ANT script according to the requirement.

- Provisioning servers and installing required software in multiple EC2 hosts with Ansible playbook.
- Having experience on Linux Administration. Having experience on file permissions, user/group management, NFS setup, process management, service management, LVM creation, scp, cron job etc.
- Knowledge in network monitoring tools like Top, PS.
- Implementing monitoring for Linux machines with Nagios.
- Hands-on experience on Web/App servers like Tomcat and Apache.
- Hands-on experience on python boto module to manipulate AWS services.
- Experience on handling traffic on the cloud.
- Experience on provisioning AWS EC2 instances. Changing EC2 instance type, increasing disk space, taking snapshot.
- Having knowledge of AWS storage, Networking and Identity and Access management.
- Managing of S3 life cycle with IA-S3 and Glacier.
- Administering & setting up Security groups & VPCs specific to environment.
- Setting up VPC and its components: Internet Gateway, Network ACL, Security Group, Subnet and Route Table.
- Configured NAT Gateway in AWS.
- Creating record sets and setting different types of routing policies in Route53.
- Having experience on cloud migration from vCenter to AWS cloud with Server Migration Service.
- Worked on server retirement process.

## Education



### **Gandhi Institute Of Engineering And Technology, Gunupur**

B.TECH, Electrical & Electronics Engineering

2011 - 2015

Scored 7.47 CGPA



### **Panchayat Junior College, Bargarh**

12th, Science

2008 - 2010

Scored 63.0%



### **Saraswati Shishu Vidya Mandir, Bargarh**

10th, -

2007 - 2008

Scored 76.12%

## Licenses & Certifications



**Hashicorp Certified: Terraform Associate** - HashiCorp



**Certified Kubernetes Administrator** - CNCF [Cloud Native Computing Foundation]

LF-cr2dq8mgw



**Certified Kubernetes Application Developer** - CNCF [Cloud Native Computing Foundation]

LF-m6j2c1nf1a



## **AWS Certified SysOps Administrator - Associate** - Amazon Web Services (AWS)

Issued Mar 2017 - Expires Mar 2019

3LKGBZD12J41Q25Q

### **Skills**

Amazon Web Services (AWS) • Git • Jenkins • Ansible • Python • Elastic Stack (ELK) • Prometheus.io • Grafana • Kubernetes • Terraform

