***Subhash***

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***DevOps/Kubernetes/AWS***

**Carrier objective:**

A dynamic DevOps engineer having 5+ years of experience, looking for a platform where I can implement my skills which I have learnt with my past experience and get a chance to gain new skill which will help me to grow further professionally and personally.

**Professional Summary:**

* Experience in Implementing Organization Strategy in IT Industry in DevOps, Linux Administration, Continuous Integration and Deployment, Configuration Management, Cloud Implementations etc.
* Implemented AWS Cloud platform and its features which includes EC2, VPC, AMI, RDS, EBS, Auto scaling, AMI, S3, cloud watch, ROUTE53.
* Experience on various flavors of UNIX System like Red Hat Linux, Ubuntu, CentOS, Debian, and Windows.
* Configured and managed source code using GitHub and resolved code merging conflicts in collaboration with application developers.
* Integrated Jenkins with various DevOps tools such as SonarQube, Jfrog Artifactory, Aqua Security Scan etc.
* Worked with Docker Management Platform, Leveraged Custom Docker Images as Containerized Apps with in the Docker Engine.
* Provisioned production-grade Kubernetes clusters using Terraform and deployed workloads in the cluster.
* Implemented and Managed Istio Service mesh on top of Kubernetes for observability and traffic management.
* Involved in setting up, configuration and management of application servers such as Apache, Tomcat and Nginx.
* Implemented and monitored logs using ELK (Elastic-Search, Logstash, Kibana) and EFK (Elastic-Search, Fluentd, Kibana) stack.
* Experience in Installation, Configuration and Management of RDBMS tool such as MySQL.
* Implemented Prometheus and Grafana to monitor nodes metrics in Kubernetes Cluster and set up alert-manager to notify team accordingly.
* Experience in Enterprise monitoring tools like Dynatrace to administer applications, Debug and Troubleshoot issues.
* Strong trouble-shooting and debugging skills and ability to handle multiple tasks and can work independently as well as in a team.
* Worked with development and testing teams to establish a build schedule, execute the builds and troubleshoot build failures, if any

**Technical skills:**

**Ticketing tool:** Jira

**Build Tools:** Maven

**Web/Application Servers:** Apache Tomcat, Httpd, Nginx

**Source Code Management:** GitHub, Bitbucket

**Microservices:** Docker, Docker-Compose

**Container Security:** Aqua Micro Scanner

**Continuous Integration Tools:** Jenkins/Hudson.

**Configuration Management Tools**: Ansible

**Infrastructure as code:** Terraform

**Container Orchestration Platform:** Docker Swarm, Kubernetes, EKS

**Service Mesh:**  Istio, Kiali web Interface, Jaeger

**Artifactory:**  Jfrog Artifactory

**Static Code Analysis Tools:** SonarQube

**Scripting Languages:**  Bash scripting, Groovy, YAML and Python

**Monitoring and Alerting System:** Prometheus, Grafana, Alert manager, Dynatrace,

**Logs Tracking:**  Elastic-Search, Kibana

**Operating system:**  Linux (Ubuntu, Debian, Red Hat, Centos) &Windows.

**Cloud services:**  Amazon Web Services (AWS), EC2, RDS, VPC, S3,

EBS, ELB, Cloud Formation, Cloud watch, SG (Security

Groups), NACL, Route53, Elastic IP, Auto Scaling

Group, RDS, NAT, EKS, AWS CLI etc.

**Roles and Responsibilities:**

## ***Client:*** *TracFone Wireless March 2020 – Present*

***Role:*** DevOps Engineer

**Roles & Responsibilities:**

* Responsible for taking care of day to day build and release activities. These activities include build issues, deployment issues for multiple releases like maintenance release, enhancement release, bug fixes, emergency releases.
* Involved in setting up of Jenkins based CI/CD pipelines and associated processes for automated builds.
* Involved in writing Python, Shell and Groovy scripts to automate operational activities as and when needed.
* Used CI/CD pipelines to drive all micro services builds out to the Docker registry and then deployed it to the Kubernetes clusters.
* Involved in Design, build, and automate new solutions centered around the Kubernetes container orchestration platform and its ecosystem.
* Used Helm packaging for the lifecycle management of Application on the Kubernetes environment and for Deploying container-based applications in Kubernetes cluster.
* Setup OS and application-level monitoring using opensource tools like Prometheus and Grafana and configure dashboard for alerting and notification.
* Created dynamic routing/load balancing capability for Kubernetes by using ingress rules using Ingress Controllers like Nginx and Implemented Firewalls using Network policies.
* Involved in Installation, configuration and maintenance of service mesh - Istio inside K8s cluster.
* Actively Involved in POC activities as part of Cloud Migration.
* Involved in migrating microservices from On-Prem Kubernetes cluster to EKS.
* Experience with analysis of logs and performing root cause analysis for various issues coming up on daily basis work with the client team to address escalations.
* Troubleshooting system related, server related, network and firewall related issues.
* Analyze problems, diagnose, and fix bugs in Jenkins pipelines, when required.
* Work with developers to identify and resolve complex problems.
* Used Terraform for Infrastructure as Code to provision EKS Cluster.

**Environment and tools**: Jenkins, JFrog artifactory, SonarQube, Kubernetes, Docker, Aqua, Dynatrace, Istio, Prometheus and Grafana, Helm, EKS, AWS etc.

## ***Client:*** *Genpact Feb 2016 – March 2020*

***Role:*** DevOps Engineer

**Roles & Responsibilities:**

* Analyze and Implement the existing manually deployment process into CI/CD workflow infrastructure using Source control tools using GitHub, build tools like Jenkins, Automation and configuration management tools like Ansible to automate the Deployment Workflow and other manual Tasks.
* Setup Jenkins server from scratch and install required plugins to assist continuous integration (CI) process and thereby Integrating it with SonarQube and JFrog Artifactory servers.
* Created freestyle projects, Jenkins pipelines, setup CI/CD, scheduled builds and deploys, Jenkins file-based deployments.
* Worked with container base deployments using Docker, working with Docker images, Docker Hub and Docker-registries.
* Used custom bash scripts to automate the process like creating docker image from the build artifact, tagging the image and pushing it to private repository as a part of CICD process.
* Hands on experience in using automation tools like kubeadm or Kops to provision a production ready, load balanced, HA and fault tolerant Kubernetes cluster or use managed services like GCP.
* Setup Kubernetes UI Dashboards for administration and dealing with RBAC for users and Service accounts.
* Responsible for EFK stack installation which includes Elastic Search, Fluentd and Kibana and set up elastic alert for specific log patterns.
* Used Ansible server to manage and configure nodes, Managed Ansible Playbooks with Ansible roles, automate repetitive tasks, quickly deploys critical applications, and proactively manage change.
* Hands on experience in AWS provisioning and good knowledge of AWS services like EC2, S3, Glacier, ELB, RDS, IAM, Route 53, VPC, Auto scaling, Cloud Front, Cloud Watch, Cloud Formation, Security Groups.
* Created EBS volumes for storing application files for use with EC2 instances whenever they are mounted to them.
* Created snapshots to take backups of the volumes and also images to store launch configurations of the EC2 instances.
* Experienced in creating multiple VPC's and public, private subnets as per requirement and distributed them as groups into various availability zones of the VPC.
* Created NAT gateways and instances to allow communication from the private instances to the internet through bastion hosts.
* Created and configured elastic load balancers and auto scaling groups to distribute the traffic and to have a cost efficient, fault tolerant and highly available environment.
* Created S3 buckets in the AWS environment to store files, sometimes which are required to serve static content for a web application.
* Implemented domain name service (DNS) through route53 to have highly available and scalable applications.
* Configured S3 buckets with various life cycle policies to archive the infrequently accessed data to storage classes based on requirement.
* Check imp. Server's backup files and Check disk utilization, CPU utilization also memory utilization.
* Adherence to the organizational guidelines and processes.
* Maintaining up-to-date documentation.

**Environment and tools**: Ubuntu, Debian, GitHub, Kubernetes, Docker, Jenkins, Maven, Ansible, ELK stack, Prometheus and Grafana, Helm etc.

**Education**

B. Tech from JNTU-H. India 2010 - 2014