Althaf Khan

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* Having 6 years of experience in IT Infrastructure with **4+ years of experience with DevOps and AWS Cloud Proficient in Git, Jenkins, Ansible, Docker, Kubernetes and Terraform.**
* Experience on AWS cloud services like **EC2 , S3 , RDS , ELB , EBS , VPC , Route53 , Auto scaling groups CloudWatch , CloudFront , IAM** for installing configuring and troubleshooting on various Amazon images for server migration from physical into cloud.
* Designed AWS Cloud Formation templates to create custom sized VPC , Subnets, NAT to ensure successful deployment of Web applications and database templates and expertise in architecting secure VPC Solutions in AWS with the help of Network ACLs Security groups , public and private network configurations.
* Hands on experience in setting up database in AWS using RDS, storage using S3 bucket and configuring instance backups to S3 bucket to ensure fault tolerance and high availability.
* Used AWS Cloud Formation templates to create custom sized EC2 instances, VPC, subnets, NAT, ELB and Security groups.
* Created alarms and trigger points in CloudWatch based on thresholds and monitored the server's performance, CPU Utilization, disk usage and Utilized AWS CloudWatch services to monitor environment for operational & performance metrics during load testing.
* Used Python, included Boto3 to supplement automation provided by Ansible and Terraform for tasks such as encrypting EBS volumes backing AMIs and scheduling Lambda functions for routine AWS tasks .
* Extensive experience in setting up the **CI/CD pipelines** using **Jenkins, GitHub, Terraform and AWS.**
* Good experience in creating and configuring new Build jobs, Plug-ins Management, distributed builds using Master/Slaves and other administration tasks in Jenkins
* Wrote Ansible Playbooks with Python, SSH as the Wrapper to Manage Configurations of AWS Nodes and Test Playbooks on AWS instances using Python, run Ansible Scripts to provision development servers.
* Experience with installation and configuration **of Docker environment** (v1.5.0) including Docker registry hub for managing different Docker images and deployment of applications inside the software containers.
* Having good implementation experience with installation and configuration of Kubernetes, clustering them and managed local deployments in Kubernetes.
* Provided consistent environment using Kubernetes for deployment scaling and load balancing to the application from development through production, easing the code development and deployment pipeline by implementing Docker containerization.
* Worked on CloudFront to deliver content from AWS edge locations to users, allowing for further reduction of load on front-end servers.
* Created Python scripts to totally automate AWS services which include web servers, ELB, CloudFront distribution, EC2, database, security groups, S3 bucket and application configuration, this script creates stacks, single servers, or joins web servers to stacks.
* Installed Jenkins and perform troubleshooting during installation to implement the CI process for the Java application builds.
* Created Ansible Playbooks to provision Apache Web servers, Tomcat servers, Nginx, Apache Spark and other applications.
* Manage AWS EC2 instances utilizing Auto Scaling, Elastic Load Balancing and Glacier for our QA and UAT environments as well as infrastructure servers for GIT/Bitbucket and Ansible.
* Building/Maintaining **Docker container** clusters managed by Kubernetes, Linux, Bash, GIT, Docker. Utilized **Kubernetes and Docker** for the runtime environment of the CI/CD system to build, test deploys.
* Using **Kubernetes**, I have controlled and automated application deployments and updates and orchestrated deployment.

**Technical Expertise:**

**Version Control system : GIT, GitHub,**

**Build and CI/CD tools : Maven, Jenkins,**

**Configuration Management : Ansible, Terraform**

**Container Tool : Docker, Kubernetes**

**Cloud Platform : Amazon Web Services**

**Scripting languages : Python**

**Application server : Apache tomcat server**

**Operating system : Windows7, 8, Red Hat Linux**

**Educational Summary:**

* Bachelor of Engineering from JNTU.

**Professional Experience:**

* Currently working as DevOps Engineer in **Harman India Private Limited, Bangalore** from July 2018 to Till Date.
* Worked as a Linux Admin/Cloud Engineer for **VMware Software India Pvt. Ltd.** **Bangalore** from March 2015 to June 2018.

**Project #: 3**

**Designation - DevOps Engineer**

**Duration- February 2019 to Till Date**

**Roles and Responsibilities:**

* Installed and administered various tools like Jenkins, Gitlab, Docker, Ansible, Artifactory and executed maintenance tasks such as creating users and groups.
* Helped the project in creating the company's DevOps strategy in a mix environment of Linux servers along with creating and implementing a cloud strategy based on Amazon Web Services.
* Implemented a CI/CD pipeline involving Git, Jenkins, Ansible, and Docker to complete the automation from commit to Deployment.
* Responsible for design and maintenance of the GIT Repositories and performed all necessary day-to-day GIT support for different projects.
* Used MAVEN as build tool on Java projects for the development of build artifacts on the source code and build Projects using Maven.
* Hands on with Ansible to deploy automated tasks to many servers at once.
* Created and Implemented branching & merging strategy with multiple branches.
* Involved in periodic archiving and storage of the source code for disaster recovery.
* Integrated GIT into Jenkins to automate the code check-out process.
* Experience on writing Shell and Groovy scripting for automating tasks in Jenkins.
* Worked on AWS Elastic Beanstalk for fast deploying of various applications
* Co-ordinated with developer team over write/modify Ansible Playbooks for automation using Ansible.
* Creating multiple VPC’s and public, private subnets as per requirement and distributed them as groups into various availability zones of the VPC.
* Created S3 backups using versioning enable and moved objects to Amazon glacier for archiving purpose.
* Involved in building security model, VPC, Elastic IP for databases on Cloud platform.
* Automated the build and release management process including monitoring changes between releases.
* Hands on experience with JIRA for creating bug tickets, workflows, pulling reports from dashboard, creating and planning sprints.
* Worked with globally distributed agile teams and delivering security software to reduce risk throughout the software lifecycle.
* Created CI/CD Pipelines and integrated with Kubernetes, docker and Jenkins.
* Experience in Kubernetes, docker container management and orchestration to host applications and implement CI/CD process for k8s, docker.
* Worked on Log search tools like Elastic search and Kibana( EFK )
* Worked with the docker images for building configuring the pipeline for CI/CD to docker build.
* Doing extensively docker images deployed on Kubernetes cluster Monitor the docker container logs using Kibana.
* Hands on Experience in Infrastructure Virtualization and app isolation using Docker.
* Sound Knowledge in Dockers Components like Hub, Networking and Volumes.
* Working on clusterization methodologies tool like Kubernetes and Docker Swarm.

**Project #: 2**

**Designation - AWS/DevOps Engineer**

**Duration- July 2018 to Jan 2019**

**Responsibilities:**

* Creating CI/CD pipelines by integrating Git, GitHub, ant, maven, Jenkins and AWS (provisioning).
* Creating continuous deployment pipeline by creating component processes, Applications and adding environments into handling deployments using code pipeline and AWS code deployment for various deployment scenarios like Tomcat deployment, Multiple applications deployment.
* Proficient in using all Amazon Web Services including EC2, EBS, IAM, S3, ELB.
* Designed and implemented Continuous Integration process using tools like Jenkins with approval from development and other affected teams.
* Conducted business impact analysis & risk assessments of business functions. Accordingly, designed, developed, documented and implemented Disaster Recovery infrastructure for mission critical servers.
* Coordinating the resources by working closely with Project Manager's for the release and Project Manager for all the Operational Projects
* Implementing new projects builds framework using Jenkins & Maven as build framework tools
* Managed and optimize the CI (Continuous Integration) tools like Jenkins.
* Install, Configure, Administer Hudson/Jenkins Continuous Integration Tool
* Automate Continuous Build and Deploy Scripts for Jenkins Continuous Integration tool.
* Provide stable build environments for product development.
* Scripting & automating tasks using shell for backup, monitoring and file processing.

**Project#1:**

**Designation- March 2015 to June 2018**

**Duration-Linux Admin/Cloud Engineer**

**Responsibilities:**

* As a Linux administrator, was involved in providing operational support to clients
* Creating users and providing them with suitable permissions.
* Account management for work place environment users. Setting up user accounts; assign privileges, and user permissions.
* Working with file systems like NFS, FTP, and Installations and of apache web servers.
* Setting up of crontab jobs for scheduling few tasks.
* Configuring Mariadb database, creating users and providing access rights to various users.
* Strong conceptual understanding of Security, VI, VIM, Nano Editors.
* Building customized Amazon Machine Images, taking snapshot on monthly basis for backup purpose.
* Troubleshoot all the issues related to Linux Operating System and provide support for all DEV and QA environments.
* Launching Amazon EC2 Cloud Instances using Amazon Web Services (Linux/ Ubuntu) and Configuring launched instances with respect to specific applications.
* Installed application on AWS EC2instances and configured the storage on S3 buckets.
* Perform S3 buckets creation, policies and the IAM role based polices
* Implemented and maintained the monitoring and alerting of production and corporate servers/storage using AWS Cloud watch.
* Build servers using AWS, importing volumes, launching EC2, RDS, creating security groups, auto-scaling, load balancers (ELBs) in the defined virtual private connection.
* Deploy applications on AWS by using Elastic Beanstalk.
* Created monitors, alarms and notifications for EC2 hosts using Cloud Watch.
* Migrated applications to the AWS cloud.
* Build and configure a virtual data center in the Amazon Web Services cloud to support Enterprise Data Warehouse hosting including Virtual Private Cloud (VPC), Public and Private Subnets, Security Groups, Route Tables, Elastic Load Balancer.
* Implement Continues Integration using Jenkins and Cloud formation Update Stack
* Use EC2 Container Service (ECS) to support Docker containers to easily run applications on a managed cluster of Amazon EC2 instances.
* Creating alarms in CloudWatch service for monitoring the servers performance, CPU Utilization, disk usage etc.
* Setting up private networks and sub-networks using Virtual Private Cloud (VPC) and creating security groups to associate with the networks.
* Setup and build AWS infrastructure resources like VPC, EC2, S3, Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates.
* Managing S3 buckets and bucket policies. Environment: Jenkins, EC2, VPC, Cloud Formation Template, IAM, Cloud Watch, Elastic Beanstalk, Linux.