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### Professional Experience:

* Having 2 years and 6 months of IT experience and 2+ years of relevant experience as DevOps Engineer with Kubernetes, Docker & Jenkins and exposure to Software Configuration Management, Build and Release Management, continuous Integration and Deployment.
* Hands on exp**erien**ce with deployment and orchestration technologies (such as **Docker Swarm** and **Kubernetes**)
* Strong experience on creating the Kubernetes deployment scripts on various deployment approaches like Blue green and Canary deployment approach.
* Implemented a **Blue green** deploy approach for the non-prod environments by using service selectors.
* Experienced on creating the Kubernetes Control plane (Master) worker (node) by using **kubeadm** and Container network interface (CNI) for **kube-dns used the wave pod network**.
* Very widely used Helm-Chart 3.0 package manager for Kubernetes.
* Implemented **readiness probe and liveness probe** for the Kubernetes deployments.
* Used Horizontal pod AutoScaler for autoscaling the pods.
* Used **Cluster AutoScaler** for scaling the instances in EKS.
* Good knowledge on various Kubernetes objects like Pod, namespace, Replication Controller (RC), Replication set (RS), Deployment Controller, Stateful Sets, Daemon Sets, Ingress, Service, Volumes, ConfigMaps.
* Good Experience in creating Docker Images, base/golden image and running Docker Containers.
* Install Docker on ubuntu machine, Created Dockerfile to create containers and integrated Docker with **Jenkins and to do build Docker Containers** and to achieve Continuous Delivery goal on high scale environment.
* Experience in creating **Docker Images** and maintaining Docker Images in private Artifactory repository **Nexus and ECR.**
* Experience in creating Docker Images and maintaining Docker Images into Public **Docker Hub** Repository.
* Used **Docker Compose tool** for running the multi container Docker applications.
* Created Custom bridge network to provide the communication between the containers by IP and name.
* Experienced in creating **docker swarm cluster** setup and running the applications in the service mode and by default uses the overlay network.
* Working Experience on Git, GitHub and Bitbucket.
* Strong experience on build automation with **Jenkins Scripted Pipeline, Declarative pipeline** & Multi-Branch Pipeline..
* Created a single Jenkins pipeline and deployed the application into various environments on Self managed Kubernetes cluster and Elastic Kubernetes Service(EKS)
* Created multiple **Terraform** modules to manage configurations, applications, services and automate installation process for **AWS instances**.
* Experienced on Branching, Merging, and Tagging concepts in Version Control tool like **Git** and **GitHub.**
* Strong experience on build tools and packaging the source code using **Ant** and **Maven.**
* Experience in maintaining application servers like **Apache Tomcat and JBoss/Wildfly.**
* Experience in Load Balancing for Apache Tomcat with **Nginx**.
* Good experience on **Amazon Web-services** (**AWS**), Creating **EC2** Instances and configuring all necessary services.
* Good knowledge in AWS services i.e., Ec2, EBS, EFS, NFS, IAM, VPC, ELB, Autoscaling, ECR, EKS & CloudWatch.
* Working experience on operating systems like **Windows** and **Linux.**
* Established Code Standards and Configuring Java based **Quality Profile** & **Quality Gates** in **SonarQube** Code Quality Analysis Tools as per client’s requirements.
* Worked with Postgre SQL as a data base to store **SonarQube** reports.
* Supporting scheduled builds using scripts and tools.

### TOOLS USED:

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| --- | --- |
| **OS/Servers** | Ubuntu, RHEL, CentOS, Amazon Linux & Windows |
| **Scripting** | Shell Scripting and Basics of Python scripting. |
| **Containerization** | Docker |
| **CI/CD Tools** | Jenkins |
| **Orchestration** | Docker Swarm, Kubernetes. |
| **Artifactory Repository** | Gitlab package/Container registry AWS ECR, Nexus, JFrog |
| **Quality Management Tool** | SonarQube |
| **AWS Services** | VPC, EC2, ELB, IAM, EFS |
| **Infrastructure Management** | Terraform |
| **Build Management Tools** | Maven, Gradle |
| **Version Control Tools** | GIT, GitHub and Bitbucket |
| **Application Server** | Apache Tomcat and Jboss/Wildfly |
| **Web Server** | Apache HTTP server, ngnix |
| **Scripting Tools** | Shell Scripting |
| **Monitoring Tools** | CloudWatch |
| **Framework** | Spring boot. |
| **Other Tools** | WinSCP, MobaXterm and Git Bash |

### Education

Post Graduate in Masters of Technology from Jawaharlal Nehru Technological University, Andhra Pradesh in 2019.

### Employment

1. **Working** as a **DevOps Engineer Consultant** for **Keybell** from Jan2020 till now.

### PROJECT

**Title : Java\_Springboot (Multi-Module for "Micro-Services" deployment)**

**Client** : **Emerson**

**Technology :** Java, spring boot, Git, Maven, Docker, Kubernetes and AWS.

**Position Held :** DevOps Engineer**.**

**Duration :** June 2021 to till date.

**Responsibilities :**

* Created a dedicated **VPC** using **Cloud Formation** template for securing the application within the organization.
* Created CICD pipeline using **Jenkins** to run the commands for building the docker images and deploying the application onto Kubernetes cluster for different environments.
* **Dockerized** the micro services and orchestrated the same on **Kubernetes** cluster.
* Push the **Docker Image** into **Nexus Repo** and **Elastic Container Registry**.
* Creating IAM roles for ECR, EKS NodeGroups and attaching/modifying the IAM roles to access AWS resources such as Virtual Machines(Ec2).
* Written **terraform** scripts to provision the infrastructure on AWS.
* Creating Kubernetes Cluster for newly on boarded projects by **Kubeadm** or EKS on AWS based on the client requirement.
* Deployed pods using Replication Controllers and Deployment by interacting with **Kubernetes** API server defining through declarative YAML files.
* Creating services for K8S cluster for accessing the application through declarative YAML files.
* Installing Metric-Server on Kubernetes cluster for monitoring Pod resources such as CPU and Memory Utilization.
* Creating External Load Balancer using Nginx Ingress Controller and mapping with Domain Name using Route 53 for accessing the application to the end-users.
* Setting up SCM/Build tools for Developers. Helping to resolve all SCM/Builds issues like merge conflicts, compilation errors, missing dependencies, Branching/Merging/Tagging/Rebasing.
* Developed and implemented Software Release Management strategies for various applications according to the agile process.
* Implemented AWS solutions using EC2, Elastic Load Balancer, IAM, ELB, VPC and Autoscaling.
* Used Maven as build tool on Java projects for the development of build artifacts on the source code
* Deployed **Applications in Kubernetes cluster by using Helm 3.0 Package**.
* Performed and deployed Builds for various Environments like QA, Integration, UAT and Productions Environments.
* Monitoring Jenkins Dashboard, SonarQube Dashboards and Kubernetes Dashboards.
* Configured CloudWatch in AWS for monitoring Metrics Such as CPU and Memory Utilization in Elastic Kubernetes Services.
* Writing Jenkins file, Docker file and YAML files for build automating builds for multiple projects.
* **Creating Quality profiles and Quality gates for testing using SonarQube and monitoring SonarQube dashboard.**

### Declaration:

I hereby declare that the above-mentioned information is correct up to my knowledge and I hear the responsibility for the correctness of the above-mentioned particulars.

Date:05/07/2022 **Purushotham V**

Place: Bengaluru