

**Greeshmanth**

**Sr. Cloud Devops Engineer**

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**Professional Summary:**

* **Around 9** years of experience on **DevOps** essential tools like **Chef,** **Ansible,** **Docker,** **Kubernetes** **Open Shift,** **Jenkins,** **Hudson, ANT/Maven.**
* Experience in working on version control systems like Subversion, and **GIT** and used Source code management client tools like Visual SVN, Tortoise SVN, CVS, Perforce and **GIT**
* Experience in working with **Bit bucket**/**Bamboo**/**AWS**/Terraform, Micro service.
* Experience working with Amazon Web services (**AWS**) and implemented solutions using EC2, S3, and RDS in cloud formation Json templates, EBS, **Elastic** Load Balancer, Auto Scaling Groups, Auto scaling Launch Configuration and Auto scaling Lifecycle Hooks.
* Experience working with **AWS** **Cloud** Watch, **Cloud** Formation, Cloud Trail Services and cloud front to setup and manage the cached content delivery.
* Experienced in working on **DevOps**/**Agile** operations process and tools area (Code review, unit test automation, Build and Release automation, Environment, Service, Incident and charge Management).
* Experience working with **Amazon Web Services** (**AWS**) compute, storage, database, analytics, application, and deployment services.
* Configured Red Hat Satellite Server for patching and configuring servers to update patches from the satellite server.
* Implemented Micro services, application development, and migration using **AWS/Azure** services such as **Azure DevOps, Kubernetes Service (AKS),** Container Registry, Cosmos DB, Grafana**, Azure pipelines**, Monitor, RBAC, **AWS Kubernetes** EKS and Kubernetes API to run workload on EKS Clusters.
* Deployed **Azure** IaaS Virtual Machines (VMs) and cloud services (PaaS role instances) into secure VNets and subnets.
* Deployed **Azure** Resource manager based resources.
* Implemented security in web applications using **Azure** and deployed web applications to **Azure**.
* Familiar using dependency visualization in **Azure** migrate for deep analysis and identify application dependencies.
* Expert knowledge on Cloud AWS and **Azure** services.
* Installed **Red Hat** **Linux** using kick start and applying security polices for hardening the server based on the company policies.
* Experience in implementing **Nginx** as ingress controller on **Kubernetes** and Horizontal Pod Auto scaler on **Kubernetes**.
* Worked on **Kubernetes** to manage containerized applications using its nodes, Config Maps, selector, Services, and **deployed** application containers as Pods.
* Worked on **Jenkins** pipelines to drive all micro services builds out to the **Docker** registry and then deployed to **Kubernetes**, Created Pods and managed using **Kubernetes** and Building/Maintaining **Docker** container clusters managed by **Kubernetes** **Linux**, **Bash**, **GIT**, **Docker**.
* Experience creating **Docker** images using a **Docker** File, worked on **Docker** container snapshots, removing images and managing **Docker** volumes.
* Experience Utilizing **Kubernetes** and **Docker** for the runtime environment of the **CI/CD** system to build, test deploy.
* Created **Kubernetes** cluster with objects like Pods, Deployments, Services and Config Maps and created reproducible builds of the **Kubernetes** applications, managed **Kubernetes** manifest files and Helm packages and implemented **Kubernetes** to deploy scale, load balance, scale and manage **Docker** containers with multiple namespace versions.
* Experience in working with Bit bucket/Bamboo/**AWS**/Terraform, Micro service.
* 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.
* Experienced in working on **DevOps/Agile** operations process and tools area (Code review, unit test automation, **Build Release** automation, Environment, Service, Incident, and charge Management).
* Experience in using Bug tracking tools like **JIRA**, Remedy, HP Quality Center, and IBM Clear Quest.
* Excellent communicative, interpersonal, intuitive, and analytic and leadership skills with ability to work efficiently in both independent and teamwork environments.

**Technical Skills**

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| **Operating Systems** | Windows, Linux, Shell and Solaris |
| **Configuration Management**  **Types of methods Implemented.**  **Branching Strategies**  **Application Build type** | Rational Clear Case, CVS, PVCS, Perforce and VSS  Infrastructure as code, Pipeline as code  GIT flow, Trunk based development.  MAVEN, ANT. |
| **Continuous Build Integration**  **Artifact Repositories** | Hudson/Jenkins, Ansible, Bamboo, CI, CD  Red Hat-QUAY, JFrog-Artifactory, Nexus. |
| **Testing Tools**  **Containerization tools**  **Cloud Technologies** | Mercury Interactive Tools (Win Runner 8.0, Load Runner 7.6), QTP, JMeter, Junit, SonarQube.  Kubernetes, Helm, Docker.  Aws, Azure |
| **Defect Tracking Tools** | Rational Clear Quest, JIRA, Bugzilla, HP Quality Center and Test Director. |
| **Scripting & Markup Languages**: | Perl , Python, Shell(bash), PowerShell Scripting, XML, XAML, UNIX, Groovy |
| **Web Technologies** | Java (JDK 1.3.1, JSDK 2.0), Servlets, JSP, XML, and JDBC. |
| **Web/App Servers** | Apache Tomcat, WebLogic 10x/8x, WebSphere 6x/5x and Tibco (middleware). |
| **Databases** | MS-SQL Server, Oracle 9i, Siebel systems, DB2, PL/SQL, RDBMS and MS Access. |

**Professional Experience:**

**Bank of America - Reston, VA Sep 2021 - Present**

**Role: SR. Cloud Devops Engineer**

**Responsibilities:**

* Streamlined and coordinated Configuration/Build/Release/Deployment/Process/Environment management across all the products in our applications.
* Used **Docker** in Environment variables, Configuration files, Option types and Strings & integers. Experience with **Linux** systems, virtualization in a large-scale environment, experience with Linux Containers **(LXC)** and **Docker.**
* Used **ANT, Puppet/ Chef** Scripts to build the application and deploy.
* Resolved update, merge and password authentication issues in **Gitlab** and **Jira**.
* Created **puppet** manifests and modules to automate system operations. Extensive experience in Application Deployments and Environment configuration using **Chef, Puppet, Ansible**.
* Automated **SQL** Scripts Deployment to Staging and production Databases.
* Experience in installation and implementation of **AppDynamics** on all Prod and Non-Prod.
* Designed **AWS Cloud Formation** templates to create custom sized **VPC, subnets, NAT** to ensure successful deployment of Web applications and database templates.
* Experience executing the **CI Jenkins** build job for both Android and iOS application builds. Using **GIT** (Stash) tool as the source code repositories for all projects and Artifactory for all builds (ipa/apk) release repository.
* Conducted regular deployments for all the applications in QA and STAGING on Android and IOS platforms.
* Experience with **PAAS/IAAS** development: using **Angular JS**, **Docker**, **Ansible.** Setup and build **AWS** infrastructure various resources, **VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling**, and **RDS** in **Cloud Formation** JSON templates.
* Build servers using **AWS,** importing volumes, launching **EC2, RDS,** creating security groups, auto-scaling, load balancers **(ELBs)** in the defined virtual private connection.
* Deployed applications on **AWS** by using Elastic Beanstalk. 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** and **Chef.**
* Developed **DevOps** Scripts in **Groovy** to automate and collection analysis of Cassandra.
* Written some **Groovy** scripts for setting up **LDAP** configuration for **Jenkins** using security matrix.
* Involved in **DevOps** processes for build and deploy systems. Created **Python** scripts to totally automate **AWS** services which includes web servers, **ELB,** Cloud Front distribution, database, **EC2** and database security groups, **S3 bucket** and application configuration, this script creates stacks, single servers, or joins web servers to stacks.
* Worked with batch team to schedule and monitor batch jobs on weekly basis.
* Used **Ansible** and **Ansible Tower** as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
* Used **Ansible Playbooks** to setup Continuous Delivery Pipeline. Deployed micro services, including provisioning **AWS** environments using **Ansible** Playbooks.
* Implemented **Ansible** to manage all existing servers and automate the build/configuration of new servers.
* Worked in container-based technologies like **Docker, Kubernetes** and **OpenShift.** Point team player on **OpenShift** for creating new Projects, Services for load balancing and adding them to Routes to be accessible from outside, troubleshooting pods through ssh and logs, modification of Build configs, templates, Image streams, etc.
* Managing the **OpenShift** cluster that includes scaling up and down the AWS app nodes.
* Had very strong exposure using ansible automation in replacing the different components of **OpenShift** like **ECTD, MASTER, APP, INFRA, Gluster**.
* Experience in Designing, Architecting, and implementing scalable cloud-based web applications using **AWS** and **GCP.**
* Configured a **GCP** Firewall rules to allow or deny traffic to and from the VM's instances based on specified configuration and used **GCP** cloud **CDN** (content delivery network) to deliver content from **GCP** cache locations drastically improving user experience and latency.

**Environment: AWS, Azure, Google cloud, IAM, EC2, S3, VPC, RDS, R53, Cloud Watch, Lambda, GIT, Subversion, Docker, Jenkins, Maven, JIRA, Splunk, Nagios, ELK, Ansible, Shell Scripting, Go, Python Scripting, Apache Tomcat, WebLogic.**

**Credit Suisse, Raleigh, NC Jul 2018 – Aug 2021**

**Role: SR. Cloud DevOps Engineer**

**Responsibilities:**

* Working as a **DevOps Engineer** for a team that involves three different development teams and multiple simultaneous software releases.
* Migrating and maintaining build and test environments into the **Cloud Infrastructure**.
* Working on Microsoft **Azure**in creating cloud environment and managing the application servers across Microsoft managed global data cent.
* Designed and configured **AZURE Virtual Networks, subnets, network settings, DHCP address blocks, DNS settings, and Security policies and routing**.
* Configured DSC configurations to deploy **Web Servers** to **Azure VMs**. Configured Azure Automation DSC configuration management to assign permissions through RBAC, assign nodes to proper automation accounts and DSC configurations, to get alerted on any changes made to nodes and their configuration.
* Configure, monitor, and automate **Amazon Web Services** as well as involved in deploying the content cloud platform on **Amazon Web Services** using **EC2, S3** and **EBS**.
* Configured an **AWS Virtual Private Cloud (VPC)** and **Database Subnet Group** for isolation of resources within the **Amazon RDS Aurora DB** **cluster** and created notifications and alarms for **EC2** instances using **Cloud Watch.**
* Written **Templates** for **AWS**/**Azure infrastructure** as a code using **Terraform** to build staging and production environments.
* Configured **Azure** **Identity Access Management (IAM)** Group and users for improved login authentication.
* Implemented **Terraform** modules for deployment of applications across multiple cloud providers.
* Setup and create **Terraform** Modules for the Azure resources, ADF, Function App, Postgres SQL, Storage accounts, VM’s, Subnets, Redis Cache, etc
* Used to write **YAML** files to configure and create **GitHub Actions**
* Experience on setting up CI workflows for your project using **GitHub Actions** to create workflows like actions to deploy, package, or release.
* Connected **continuous integration** systems with the **GIT** version control repository and continually built as the **check-ins** came from the developer and Managed **Maven** project dependencies by creating parent-child relationships between projects.
* **Jenkins** is used as a **continuous integration tool** for build and deployment of **JAVA** code.
* Collaborated with development & support teams to service a continuous delivery environment with the use of build platform tool **DOCKER.**
* Evaluated **Kubernetes** for **Docker** container orchestration and worked in using **Dockers** Swarm and deployed **spring boot** applications.
* Involved 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.
* Development of automation of **Kubernetes clusters with Ansible, writing playbooks.**
* Kubernetes architecture: node, **kubelet manages pods**, their containers, images, volumes, network etc. kube-proxy is a simple network proxy and load balancer responsible for reflecting services on the nodes.
* Created, managed, and performed container-based deployments using **Docker images** containing middleware **(Apache Tomcat)** and Applications together and evaluated **Kubernetes** for **Docker container orchestration**.
* Managed **Docker orchestration** and **Docker containerization** using **Kubernetes** to orchestrate the deployment, scaling, and management of **Docker Containers**.
* Linux container orchestration with **Docker, Kubernetes, CoreOS, etc**, and more .

**Environment: AWS, IAM, EC2, S3, VPC, RDS, R53, Cloud Watch, Lambda, GIT, Subversion, Docker, Jenkins, Maven, Ansible, JIRA, Splunk, Nagios, ELK, Shell Scripting, Go, Python Scripting, Apache Tomcat, WebLogic.**

**Lowe's - Charlotte, NC March 2016 – Jun 2018**

**Role: Cloud DevOps Engineer**

**Responsibilities:**

* Creating a fully Automated Build and Deployment Platform and coordinating code builds promotions and orchestrated deployments using Jenkins and Git Hub.
* Refined automation components with scripting and configuration management (Ansible).
* Extensively worked on Jenkins for continuous integration and for End-to-End automation for all build and deployments
* Administered and Implemented CI tools Jenkins, Build Forge and Bamboo for automated builds and deployments.
* Managed Product Backlog and tracked bugs using JIRA.
* Resolved update, merge and password authentication issues in Bamboo and JIRA.
* Created and maintained the Python deployment scripts for Web Sphere Apache web application server.
* Installed, Managed and Configured monitoring tools such as Splunk, Nagios and CloudWatch for monitoring the logfiles, Network Monitoring, log trace monitoring and the hard drives status.
* Designed and worked with team to implement ELK (elastic search, log stash and Kibana) Stack on AWS.
* Involved in setting up application servers like Tomcat, WebLogic across Linux platforms as well as written shell scripts, Perl, Python, Ruby scripting on Linux.
* Experienced in build and deployment of Java applications on to different environments such as QA, UAT and Production.
* Migrated the current Linux environment to AWS/RHEL Linux environment and used auto scaling feature and Involved in Remediation and patching of Unix/Linux Servers.
* As member of Release Engineering group, redefined processes and implemented tools for software builds, patch creation, source control, and release tracking and reporting on UNIX platform.
* Involved in Amazon Web Services (AWS) provisioning and AWS administrations like EC2, Elastic Load-balancers, ECS (Docker Containers), S3, CloudFront, Elastic File system, RDS, DynamoDB, VPC, Route53, Security groups, CloudWatch, CloudFormation, IAM.
* Experience in setting up CICD pipeline integrating various tools with Jenkins to build and run Terraform jobs to create infrastructure in AWS
* Managed GIT and Bitbucket repositories for branching, merging, and tagging.
* Created release branches in Gitflow by GIT Administration including branching, reporting and assisting with project and end user support.
* Configured GIT with Jenkins and schedule jobs using Poll SCM option.
* Installed and Configured the Nexus repository manager for sharing the artifacts within the company.
* Responsible for build and deployment automation using AWS, Docker, Kubernetes containers.
* Focused on containerization and immutable infrastructure. Experienced in using Docker Swarm and deployed java spring boot applications.
* Developed container support for cloud environments and Docker. Deployed the java applications in Docker containers and managed the containers in enterprise level.
* Configured Docker container for branching purposes and Implemented Docker automation solution for Continuous Integration / Continuous Delivery model.
* Setup Kubernetes Master/Worker nodes as well as API Server and scheduler to orchestrate the deployment of instance in real-time.
* Involved heavily in setting up the CI/CD pipeline using Jenkins, Maven, Nexus, GitHub, Terraform and AWS.
* Written Templates for AWS infrastructure as a code using Terraform to build staging and production environments.
* AWSEC2/VPC/S3/SQS/SNS based infrastructure automation through Terraform, Ansible, Python, Bash Scripts.
* Developed and maintained the continuous integration and deployment systems using Maven, Jenkins, Nexus, Chef and Ansible.

**Environment: AWS, IAM, EC2, S3, VPC, RDS, R53, Cloud Watch, Lambda, GIT, Subversion, Docker, Jenkins, Maven, Ansible, JIRA, Splunk, Nagios, ELK, Shell Scripting, Go, Python Scripting, Apache Tomcat, WebLogic.**

**Client: 3I Infotech – Hyderabad, India May 2013 – Aug 2015**

**Role: Linux Administrator**

**Responsibilities:**

* Installed and Configured High Availability, **Disaster Recovery** systems using VERITAS Cluster Server 4.1 on a two-node cluster for NFS and **MQ Series**.
* Configuring, administering and troubleshooting of **NFS**, **NIS** (master, slave and client) and **DNS** (Bind 8.2.x and 8.3.x) in multi-platform networks that included IBMA IX & Linux.
* Updating patches to keep the **Linux** and **Solaris** servers updated against bugs present in the operating system using patch administration commands like yum, rpm, and patch add, showrev & up to date etc.
* User, Group management and security policy management for the all servers including Windows and **UNIX**using RBAC, sudo etc.
* Installing, configuring and troubleshooting **Sun Java System** Web Server 6.x, 7 and Apache 2.2.x web server on **Redhat Linux**.
* Responsible for **Installation**, **configuration** and **administration** of middleware like Web Logic 9.0, JBoss 3.2, CA Web Access Manager (**WAM**) and MQ Series v 7.0 etc.
* Performance Analysis of resources like CPU, Memory, Disk and Swap from command line using commands like prstat, vmstat, sar, iostat, swap etc. and tuning of the kernel parameters for the better performance of the operating system and **TCP**.
* Hardening the servers as per the compliance norms by analysing the availability of the services that are needed on the servers based on the functionality and disabling the services which are not needed. Installation and configuration of **TCP**wrappers and constant security patch updates as a part of the exercise to harden the servers.

**Environment:** Redhat, Linux, Solaris, Veritas Volume Manager 4.1, Veritas Cluster Server 4.1, Veritas NetBackup 5, BMC Patrol for Unix, Apache 2.2.x, Sun Java System Web Server 6.x, 7, WebLogic.