SREETEJA K

+1 (408) 755-5804

sreeteja.k76@gmail.com

[linkedin.com/in/sreek07/](https://www.linkedin.com/in/sreek07/)

**PROFESSIONAL SUMMARY**

* A cloud fanatic with 7 years of work experience as **Cloud Engineer,** **Linux System Administrator, Build and Release Management, Configuration Management and containerization** on various cloud platforms like **AWS, GCP, Azure.**
* Implemented standard Software Development Life Cycle (**SDLC**) methodologies like **waterfall, agile** and **scrum**.
* Created and maintained highly scalable and **fault tolerant** multi-tier AWS and Azure environments spanning across multiple availability zones using **Terraform**and**CloudFormation**.
* Considerable knowledge on using **AWS** services like **EC2, ELB, RDS, VPC, S3, IAM, Route 53, Security Groups, EBS, Cloud Formation, Elastic Beanstalk, Glacier,** configured alerts using **Cloud Watch.**
* Developed **AWS Lambda** functions to execute Python Boto3 scripts in response to events in **Amazon Dynamo DB table, S3 buckets, HTTP requests** using **Amazon API Gateway**.
* Designed and developed ETL processes in **AWS Glue** to migrate data from sources like S3, Text Files into **AWS Redshift**.
* Significant expertise on **Azure Cloud** Services like **Azure Synapse Analytics, Data Factory, Azure Blob Storage, Active Directory, Container Service, VPN gateway, Content Delivery Management, Traffic Manager, Monitoring, VSO.**
* Experienced in deploying Web applications by maintaining end-to-end configurations likeautomated build andrelease using **Azure DevOps (TFS) Pipelines.** Worked on Azure web applications and app services.
* Accomplished **migrating** on-premises applications to Azure and provided security, networking by configuring VNET’s and Subnets. Experienced in **Azure storage**, **Azure SQL database**, Azure search and notification hub.
* Deployed **Kubernetes(k8s)** clusters in **Google Cloud** and managed them using Google **Kubernetes Engine** and worked on **Google Cloud Functions** to automate responses for HTTP requests.
* Established Google Cloud Platform **CDN** (content delivery networks) from **GCP cache** locations to deliver content and drastically improve user experience and reduce latency.
* Experienced in scaling **Kubernetes Clusters** to support automatic high availability, load balancing, health checking and failover. Worked on **orchestration** tool to provide a platform to **automate** deployment, scaling and operations of application containers across clusters of hosts and managed containerized applications using its nodes.
* Worked on various **Kubernetes deployment** strategies **Blue-Green Deployment**, **Canary Deployment**, **Rolling Update** and for updating Deployments in the cluster.
* Managed **Kubernetes** charts using Helm and created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and releases of **Helm packages.**
* Worked on installation of **Docker** using **Docker toolbox** and created **custom Docker container images, tagging** and **pushing** the **images.** Experience in setting up **ELK** with **Docker and Docker-Compose.**
* Performed automation tasks on various Docker components like **Docker Hub, Docker Engine, Docker Machine, Compose** and **Docker Registry**. Containerized applications by creating Docker images from Docker file to make them consistent while transferring to different environments.
* Experienced in virtualizing the servers using **Docker**for both test and dev-environments needs, and configured automation using **Docker containers.**
* Experienced in design and implementation of automated **CI/CD pipelines** based on multiple tools like **Jenkins, TeamCity and AWS Code-Deploy** along containerized deployments using **Docker**.
* Integrated **Jenkins CI/CD** tool with **Junit**, to run unit tests and **SonarQube** to review and analyze the code for greater quality and then push it to **Nexus** Artifactory server.
* Built end to end **Jenkins** **CI/CD** Pipelines using **groovy** scripts to create AWS infrastructure from **GitHub** repositories containing **Terraform** code to retrieve code, compile applications, perform tests and push build artifacts to **Nexus**.
* Experience in creating inventory, job templates and scheduling jobs using **Ansible Tower** and expertise in writing **Ansible Playbooks**. Used **Ansible vault** and **Tower** as configuration management tool, automated repetitive tasks, deployed applications, managed changes and automated software update and verified functionality.
* Experienced in using **Ansible** as a configuration management tool and developed **Ansible Playbooks** using **YAML** to provision the **Infrastructure** and deployed playbooks to the target machines to reduce the downtime.
* Experience in developing **Chef Cookbooks**, Recipes, Roles and Data Bags to automate the services related to deployment on multiple environments.
* Implemented **Chef Server Enterprise** on premise/workstation/bootstrapped the nodes using **knife** and automated by testing Chef **Recipes/Cookbooks** with Test-kitchen.
* Experienced in working with **Puppet** Enterprise and Puppet Open Source. Installed, configured, upgraded and managed Puppet Master, Agents & Databases. Integration of **Puppet** with **Apache** and **Passenger.**
* Experienced in using **MAVEN** and **ANT** for the building of deployable artifacts such as **war** & **jar** from source code and expertise in developing build scripts and automated solutions using scripting languages such as **Shell and Python.**
* Worked on version control and source code management tools like GIT, Subversion (SVN) and used Source code client tools like **Bitbucket, GitLab, Git Bash, GitHub** and **Git GUI**.
* Performed configuration and handled databases like **MySQL** and **No SQL** databases like **MongoDB,** **Cassandra, Oracle**, **SQL** Server, **RDBMS** and, **RDS** and administered them.
* Worked with monitoring systems and tools like **Prometheus, Grafana,** **Nagios, Splunk, CloudWatch and ELK stack to resolve critical issues by analyzing the logs and improved application performance.**
* **Expertise in using various bug tacking tools like Clear Quest, Quality center and JIRA software with Jenkins and GitHub for real-time bug tracking and issue management.**
* Ability to write and debug scripting like **Shell, Python, Ruby, Perl, JavaScript** and deployed servers like **Tomcat**, **WebLogic, WebSphere, JBOSS** to deploy code Implementation.

**TECHNICAL PROFICIENCY**

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| --- | --- |
| **Cloud Platforms** | AWS, GCP, AZURE |
| **Infrastructure as a Code** | Terraform, Cloud Formation |
| **Containerization Tools** | Docker, Kubernetes, Docker Swarm |
| **Configuration Management Tools** | Ansible, Chef, Puppet |
| **Build Tools** | Maven, Ant |
| **CI/CD Automation Tools** | Jenkins, Teamcity, Azure DevOps (TFS) |
| **SCM/Version Control Tools** | Git, GitHub, Bitbucket, Subversion |
| **Monitoring Tools** | Nagios, Splunk, ELK |
| **Ticketing Tools** | JIRA, Service Now |
| **Web Servers** | Apache, Nginx, Tomcat |
| **Databases** | Oracle, MongoDB, SQL, Server, MySQL, RDBMS, NOSQL, Cassandra, RDS |
| **Scripts/Languages** |  Shell(bash) Scripting, YAML/JSON, Python, Ruby, PowerShell |
| **Operating System** | UNIX, Enterprise Linux, Windows, CentOS, Debian, OS Ubuntu |

**PROFESSIONAL EXPERIENCE**

**Equinix, Frisco, TX May 2020 – Present**

**Sr. Cloud DevOps Engineer (AWS/Azure)**

**Description:** Equinix, Inc. is an American multinational company that specializes in Internet connection and data centers. I am responsible for the migration of on-premise applications in the data center to the AWS and Azure cloud. My activities include building, and maintaining CI/CD pipeline for deploying updates, automating and monitoring the applications.

**Roles & Responsibilities:**

* Involved in **migrating on-premise** application data running on Apache Tomcat to **AWS cloud** and worked on setting up **Amazon EC2** instances, virtual private cloud **(VPCs)**, and security groups and created **AWS Route53** to route traffic between different regions.
* Used **AWS Elastic Beanstalk** for deploying and scaling web applications and services developed with **Python**, and **Docker** on familiar servers such as **Apache Nginx**.
* Configured **Amazon S3, Elastic Load Balancing, IAM and Security Groups**, Public or Private Subnets in VPC, created storage cache and storage volume gateways to store data and other services in the AWS.
* Implemented AWS **Lambda** **functions** to execute scripts in response to events in **Amazon Dynamo DB table, S3 buckets, HTTP requests using Amazon API Gateway.**
* Deployed **Azure IaaS virtual machines** and **Cloud services (PaaS role instances)** into secure VNets and subnets to confirm Network Limits and exposed VMs and cloud services to the internet using Azure External Load Balancer.
* Provided high availability for **IaaS VMs** and **PaaS** role instances for access from other services in the VNet with Azure Internal Load Balancer. Implemented high availability with **Azure Classic** and **Azure Resource Manager.**
* Created highly scalable and fault tolerant **multi-tier AWS and Azure** environments spanning across multiple availability zones using **Terraform** and **CloudFormation.**
* Managed **Kubernetes** charts using **Helm**, and Created reproducible builds of the Kubernetes applications, managed Kubernetes deployment and service files and managed releases of Helm packages.
* Worked on **Blue-Green** **deployments** using **CloudFormation** for **IAC**, **Kubernetes** for container orchestration that reduces downtime and risk by running two identical production environments.
* Implemented a production ready, load balanced, highly available, fault tolerant **Kubernetes** infrastructure and created **Jenkins** jobs to deploy applications to **Kubernetes Cluster**.
* Experienced in working with **Docker** **hub**, creating Docker images and handling multiple images primarily for

**middleware** **installations** and **domain** **configurations**.

* Extensively used **Docker** for **containerization**, running, shipping and deploying the application securely to speed up the build and release process. Also, automated docker image builds by creating **docker files**.
* Created **Docker Swarm** using **Docker CLI** to orchestrate, schedule and deploy the services to swarm and managed the swarm behavior and created Docker file for each microservice based applications to the container.
* Experienced in setting up installation and configuration of **Jenkins** for automation of build and deployments including poll **SCM**, pulling artifacts from **Nexus**, integration of **Ansible** to execute playbooks for **bootstrapping** EC2 instances.
* Extensively worked on **Jenkins** for Continuous Integration and Continuous Deployment (CI/CD) methodologies for end-to-end automation for application deployments.
* Built and maintained highly secure **multi**-**zone** AWS **cloud** **infrastructure** utilizing **Ansible** with AWS Cloud Formation and developed groovy scripts **(Jenkins)** for **continuous** **deployment.**
* Deployed and monitored scalable infrastructure on AWS cloud and performed configuration management on EC2 instances using **Ansible** and incorporated **playbooks** to migrate data from On-premise **Data center** to AWS.
* Configured **Docker** and **Ansible** to create build automation (Continuous Deployment) pipeline using **Jenkins** and developed Ansible Playbooks to automate Ansible Servers using **YAML scripting**.
* Built EAR and WAR files with custom configuration settings using **Maven** **Tool Kit** and further developed **Ansible** **Playbooks** to pull the Artifacts stored in **Nexus** to continuously deploy the archives on to **Apache Tomcat Web Server, IIS Servers and WebSphere Application Servers.**
* Maintained the **Maven** scripts used for the build process and created configuration files using the **POM.xml** files and published the built artifacts into **Nexus** repository as part of continuous Integration.
* Used **Bitbucket** to host and manage the source code in private **Repositories** and configured **Jenkins** for integrating these Repositories to the **CI/CD** process.
* Created **Splunk Dashboards** to highlight key business metrics such as transaction volume and average processing time, and to measure the performance of the third-party systems.
* Developed **BASH shell scripts** to automate the manual tasks on daily basis like renaming, **extracting data**, unzipping and removing the junk data from the file before loading them into the base tables and to automate **CRON** jobs and system maintenance job automation.
* Developed **Bash and Python** scripts to automate tasks such as encrypting **EBS volumes**, backing-up **AMIs** and scheduling **Lambda** functions for routine AWS tasks.
* Experience in using **AWS Cloud Watch** to monitor and regularly check the health of the instances running EC2.
* Used **JIRA** **API Tools** to auto - move Service Desk tickets of one issue type to a JIRA project of another issue type and to extract the list of JIRA users with the respective **JIRA** Groups and project Roles.

**Environment & Tool Stack:** AWS, Azure, Terraform, CloudFormation, Kubernetes, Docker, Jenkins, Ansible, Maven, Nexus, Bitbucket, Splunk, Bash, Python, CloudWatch, Shell scripting, Apache Tomcat, JIRA.

**CarMax, Richmond, VA Sep 2018 – Feb 2020
DevOps Engineer (Azure/GCP)**

**Description:** CarMax is America's largest used-car retailer and a Fortune 500 company. I was part of the infrastructure project. My day-to-day responsibilities include creating infrastructure on Azure Cloud and managing Continuous Integration and Deployment pipelines and monitoring the deployments.

**Roles & Responsibilities:**

* Implemented the **SDLC** methodology to build, release, deploy applications on Cloud and worked directly with multiple development and production teams to support these Pipelines.
* Experienced in using Microsoft Azure including **Azure CLI, Azure Management, Azure Portal, Azure PowerShell, Cloudmonix, Azure Management PowerShell Cmdlets** and **Red Gate** Cloud Services.
* Experienced in designing cloud solutions to clients across **Azure** cloud platforms and provided strategies to build cloud infrastructure for on-premise network migration using **Azure ExpressRoute**.
* Involved in creating Azure cloud services (**PaaS** & **IaaS**) like, Function Apps, Azure Data Factory & Storage, Azure Resource Manager (**ARM**), Azure Identity & Access Management, Active Directory, Azure SQL/Cosmos DB and Application Gateways using Terraform.
* Used Google Cloud Platform (GCP) services like **Compute Engine, Cloud Functions, Cloud DNS**, **Cloud** **Storage** and implemented **SaaS, PaaS and IaaS** concepts of GCP Cloud computing.
* Created shared VPC with different tags in a single GCP project and used the same in the entire project and expertise in setting up **VPC peering** to connect different VPC networks.
* Configured GCP **Firewall rules** to allow or deny traffic to and from the VM’s and used **GCP cloud CDN** (content delivery network) to deliver content from GCP cache locations by improving user experience and latency.
* Involved in container-based deployments, working with **Docker images, Docker Hub, Docker-registries and Kubernetes** and worked on creating pods, replication controllers, services, deployments, and labels.
* Utilized the orchestration tool **Kubernetes** to expose the applications to various ports and created high priority firewall rules for both inbound and outbound as source and destinations, respectively.
* Worked with **Kubernetes** using Helm charts and created reproducible builds of the Kubernetes applications and involved in managing Kubernetes manifest files and releases of Helm packages.
* Experienced in debugging **Docker** images, Installing/setup Docker host in environment, Integrating **Docker** and **Mesos**, to monitor container status, attaching to a running and managing containers.
* Worked on setting-up **Docker** to automate container deployment through **Azure DevOps** and worked on Docker container to create Docker images for different environments.
* Builds were automated using **Azure DevOps** **(TFS)** to successfully deploy the applications or Cloud services and maintained all the versions of code using Azure DevOps repositories.
* Automated daily Visual Studio Team Services (**VSTS**) deployments using **Azure DevOps and** released Rest APIs using PowerShell and created scripts to trigger Azure DevOps status email.
* Implemented a **CI/CD** pipeline using **Azure** **DevOps** in cloud and on-premises with **GIT, MS Build, Docker and Maven**. Used **Ansible** for configuration management of mobile and web applications that are deployed over Azure Cloud.
* Integrated **Ansible** with **Azure DevOps** pipelines to configure **ELK stack** (Elasticsearch, Logstash, Kibana) and troubleshoot any issues with **ELK**.
* Managed **Ansible Playbooks** using Ansible **roles** and worked with deploying web application on Apache, maintained high availability standalone server and refined automation components using Ansible configuration management.
* Used **MAVEN** as a build tools on java projects for the development of build artifacts on the source code and deployed artifacts into **Nexus** (Jar and War file) repository and defined dependencies and plugins in **Maven** using **pom.xml**.
* Written templates in JSON format for cloud formation and **YAML** Script for Ansible automation and contributed source code to the **GitHub repository**.
* Developed **Bash** and **PowerShell** scripts for automation of daily tasks and Involved in setting up the code repositories for this project in **Azure DevOps**.
* Monitored applications and servers by using **shell/python** scripts and **Splunk** as monitoring tool to identify, resolve infrastructure problems before they affect critical processes and worked on event handlers in case of automatic restart of failed applications and services.
* Participated in **Linux administration** along with other functions managing different servers like **Apache/Tomcat** and databases such as **Oracle, MySQL, Cassandra, RDBMS** and **MongoDB.**

**Environment & Tool Stack:** SDLC, Azure CLI, Azure Monitor ARM, GCP, CDN, Terraform, Docker, Kubernetes, Azure DevOps, Maven, Ansible, ELK Stack, Nexus, Git/GitHub, PowerShell, Python, Splunk, Bash.

**Genpact, Hyderabad, India Feb 2015 – Dec 2017**

**Build & Release Engineer**

**Description:** It is a global professional service firm which makes business transformation real. It designs and solve problems with data and analytics. I was responsible for creating automated build and deployment process for application, re-engineering setup for user experience and leading up to building a continuous integration system.

**Roles & Responsibilities:**

* Designed and developed **AWS Cloud Formation templates** to create custom **VPC,** Subnets, NAT to ensure deployment of web applications.
* Worked on multiple **AWS EC2** instances, security groups, **Elastic Load Balancers** and **AMIs, Auto scaling groups** to design cost effective, fault tolerant and highly available systems.
* Experience in building and architecting multiple Data pipelines, end to end ETL and ELT process for Data ingestion and transformation in **GCP** and coordinate task among the team.
* Built and maintained **Docker container** clusters managed by Kubernetes on **GCP** and utilized Docker for the runtime environment of the **CI/CD** system to build, test and deploy web servers.
* Implemented **Twist lock mechanism** for role-based access control policy system for Docker and Kubernetes containers to scan monitor events, runtime, vulnerabilities, Compliance for containers and images.
* Created multiple isolated **Docker** projects and related test environments such as **QA, AppDev** on a single host using Docker compose tool and created **Docker Registry** for test images. Stored the images in Docker hub.
* Integrated **Jenkins CI** with GIT version control and implemented continuous build based on check-in for various cross functional applications and created **GitHub Webhooks** to setup triggers for commit, push, merge and pull request events.
* Responsible for installing **Jenkins** master and slave nodes and scheduled jobs using Poll SCM option and creating the build scripts using Maven for deploying Java projects.
* Responsible for **Continuous Integration (CI)** and **Continuous Delivery (CD)** process implementation using **Jenkins** along with Shell scripts to automate routine jobs.
* Worked on bootstrapping nodes with **Chef** server and developed cookbooks and uploaded them to **Chef server** to manage on-site application and services.
* Performed **Chef Automation** and automated the cloud deployments using chef, python and **AWS CloudFormation** templates to create VPC, Subnets, NAT to ensure successful deployment of Web applications.
* Developed **Chef recipes** using Ruby Script through **Knife** command line tool to manage systems configurations for Tomcat, MySQL, Windows applications using Cookbooks and versioned them on GIT repositories.
* Experienced in authoring pom.xml files, performing releases with the **Maven** release plug-in and managing Maven repositories and its integration to Jenkins CI/CD pipelines.
* Performed **GIT** responsibilities like maintaining the version control system (branching model, security), merging and resolving merge conflicts.
* Created a **Nagios** instance to help monitor the production provider portal which gave business deep insight into the overall health of the production environment.
* Installed, configured and troubleshooted enterprise-wide **Apache web servers** and **Tomcat** **application** containers in a large **Red Hat Linux/CentOS** environment.
* Involved in maintaining and editing **python scripts** for application deployment automations and involved in editing the existing **Maven** files and checked for errors or any changes in the project requirements.
* Maintained **JIRA** for tracking and updating project defects and tasks ensuring the successful completion of tasks in a **Sprint.**

**Environment & Tool Stack:** AWS, GCP, Docker, Jenkins, Chef, Maven, Git, Nagios, Python, Shell Scripting, Apache Tomcat, JIRA.

**Adept Technologies, Hyderabad, India May 2013 – Jan 2015**

**Linux System Administrator**

**Description:** General Linux System Administration such as security patching, OS upgrades, troubleshooting problems and system monitoring. Involved in **migrating** developed environment to **Cloud.** Experienced in Cloud migration of on-premise legacy applications to AWS cloud.

**Roles & Responsibilities:**

* Created Snapshots and **AMIs** of **EC2** instances and moved AMIs to different regions to create cross region Failover, created **S3 buckets** and managing policies for S3 buckets and glacier for storage and backup on **AWS**.
* Worked on templating AWS AMIs, creating **Elastic Block Storage** (EBS) snapshots to ensure backups and promote reusability. Assigned Storage classes to S3 based on Object Lifecycle to reduce storage consumption cost.
* Created **Docker images** and linking of **Docker containers** for secured way of data transfer and handling images primarily for middleware installations and domain configurations.
* Implemented docker-maven-plugin in **Maven POM** to build docker images for all microservices and later used Docker file to build the docker images from the java jar files.
* Integrated **SonarQube** with **Jenkins** for continuous inspection of code quality and analysis with **SonarQube** scanner for **Maven.**
* Used **Puppet** to deploy **ELK** for automating Continuous Deployment and configured Slave nodes and deployment failure reporting.
* Developed **Puppet** scripts for automating server provisioning and docker images for isolation, reducing the time between provisioning and deployment.
* Configured and maintained **Jenkins** to implement the **CI** process and integrated the tool with **ANT** to schedule the builds. Developed build and deployment scripts using **ANT** as build tool in **Jenkins** to move from one to other env.
* Involved in maintaining and editing **Python scripts** for application deployment automation. Involved in editing the existing **ANT** files in case of errors or changes in the project requirements.
* Experienced in branching, tagging and maintaining the version across the environments using SCM tool **Subversion** (SVN) on Linux and windows platforms.
* Monitored overall system performance, performed user management, system updates, file systems, network and disk storage management using **Nagios** monitoring.
* Created and deployed builds on **Web Logic**, tested in build environment and released to test team on time.
* Provided support for developers and development efforts related to **Linux/UNIX** and **Apache Tomcat** administration. Programming and scripting PowerShell, bash shell.

**Environment & Tool Stack:** AWS, S3, EBS, Docker, Jenkins, Ant, Puppet, Nagios, Subversion, Apache Tomcat, Linux/UNIX.