

**NAME: Shiva Goud**

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# Professional Summary:

Enthusiastic and seasoned cloud DevOps engineer, with 9+ years of hands-on experience. passionate about leveraging cut-edge technologies to streamline development workflows, enhance scalability, and optimize system performance. Adept at designing and implementing robust cloud infrastructure solution and DevOps Tools specializing in AWS, Azure, Linux, Jenkins, Docker Kubernetes, Terraform, Ansible, Git, Python etc.., beyond the code, I bring a human touch to technology, fostering a collaborative, culture and mentoring team members. Excited about the interaction of innovation and efficiency. I’m ready to contribute my skills to drive success in your organization.

* Developed a Linux shell script for efficient user management and directory backup. This honed my skills in shell scripting, Linux system administration and version control using Git and GitHub. I implemented features for user account manipulation, group management, and automated backups, enhancing my understanding of Linux system security and file handling.
* Successfully containerized a two-tier application using docker and orchestrated the deployment with docker compose. Gained expertise in docker image creation, management, and performed vulnerability scanning using docker scout. This enhanced my understanding of containerization, network communication between containers, and security practices in Docker environments.
* Developed and deployed, a (Django/Node) application using GitLab CID pipeline, Docker and AWS EC2 this project involves configuring a complete CID pipeline for automated testing, building and deploying the application. Gained hands-on experience in devops practices, Docker containerization and cloud deployment, enhancing my skills in software development and deployment automation.
* Engineered Jenkins CI/CD pipeline for a NodeJS application, incorporating DevSecOps practices. Integrated SonarQube for code quality OWASP for security testing and Trivy for docker image scanning. my skills in CI/CD pipeline deployment, security integration in DevOps and containerization, providing a comprehensive understanding of DevsecOps.
* Deployed as a scalable Three-Tier application (ReactJS, NodeJS, mongo DB) on AWS EKS leveraging Kubernetes for orchestration and AWS ALB for Load balancing.
* Gained practical experience in cloud-native technologies, containerization and cloud infrastructure management, reinforcing my understanding of full stack development, and Kubernetes deployment in a production environment.
* Designed and deployed a production-ready multi-tier infrastructure on AWS using terraform for infrastructure automation and ansible for configuration management. Mastered the use of remote backends in terraform and developed the expertise in creating scalable, secure and highly available cloud environments.
* Implemented a comprehensive monitoring and visualization solution for Kubernetes based application using Prometheus, Grafana and Cad visor developed skills in setting up scalable monitoring systems, creating insightful dashboards, and understanding key metrics for containerized environments.
* Developed and deployed a server-less to-do application using AWS lambda, APA Gateway, NodeJS and AWS RDS. Gained hands-on experience with the serverless framework and cloud native development, focusing on building scalable, efficient and secure serverless applications.
* Experienced AWS Cloud / DevOps Engineer with expertise in scripting (BASH and Python) to create and manage AWS infrastructure and Lambda functions for code uploads and change monitoring.
* Proficient in orchestrating and migrating CI/CD processes using Cloud Formation, Terraform, Packer Templates, and containerization with Docker in OpenShift, AWS, and VPC environments.
* Skilled in implementing Continuous Integration (CI) workflows with Docker and Kubernetes, focusing on Microservices for scalable applications and ensuring container security.
* Managed AWS EC2 instances, utilizing S3 and Glacier for data archiving, UAT environments, and GIT infrastructure.
* Created pipelines for deploying code from GitHub to Kubernetes (K8s) clusters using the Spinnaker platform, and automated provisioning tasks with Terraform, Python, and Docker containers.
* Utilized Jenkins pipelines for Microservices builds, Docker container deployment to Kubernetes, and managed Kubernetes Pods.
* Configured CI/CD tools Jenkins, Maven, Ant, and GitHub repository for the continuous smooth build process.
* Worked on container-based deployments of Microservices using Docker and Kubernetes.
* Experience in working with Multi-cloud Environments like AWS, AZURE and GCP.
* Profoundly did Continuous integration using Hudson’s/Jenkins, which requires developers to integrate code into a shared repository several times a day.
* Proficient in AWS services such as EC2, Route53, S3, RDS, DynamoDB, SNS, SQS, Lambda, and Redshift, focusing on high availability, fault tolerance, and auto-scaling using AWS CloudFormation.
* Skilled in monitoring servers using Nagios, Datadog, Cloud watch and using ELK Stack Elasticsearch Logstash.
* Proficient in leveraging monitoring tools such as Prometheus, Grafana, Datadog, Splunk, and PagerDuty for proactive threat detection and effective incident response.
* Maintain Git, Bitbucket repository, handling branching, Merging, tagging and release activities.
* Implemented Docker Datacenter, including Universal Control Plane (UCP) and Docker Trusted Registry (DTR) on a cluster of hosts.
* Integrated Git with Jenkins to automate code checkout processes, troubleshoot build issues, and establish continuous delivery frameworks using Jenkins.
* Successfully managed high availability of production systems as a MySQL DBA and implemented real-time processing platforms using Kafka and Spark streaming with Cassandra.
* Proficient in developing Continuous Integration/Continuous Delivery (CI/CD) pipelines, containerization with Docker, and container orchestration with Kubernetes and EKS.
* Developed Terraform modules for various AWS services provisioning and created IAM roles and policies for various customer use cases.
* Extensive experience with Docker, Jenkins, GitHub, and AWS AMIs for continuous delivery pipelines.
* Proficient in infrastructure automation using Ansible playbooks and ensuring secure AWS infrastructure through IAM.
* Managed Amazon Web Services (AWS) infrastructure using Chef, designed cloud-hosted solutions, and automated deployments using Chef recipes.
* Utilized Terraform templates for Azure IaaS provisioning, managed Kubernetes clusters with Helm, and integrated Jenkins for CI/CD in Google's Kubernetes container environment.
* Extensive experience in Linux system administration, including troubleshooting and resolving issues on various Linux distributions and UNIX platforms.
* Managed and upgraded server services, implemented volume management, and maintained build-related scripts and configurations.
* Proficient in configuring and administering web, DHCP, and FTP servers in Linux and Solaris environments.
* Demonstrated expertise in network troubleshooting, security-related issues, and MySQL database backups using third-party tools.

# Technical Skills:

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| **(IAC) and Cloud Services:** | AWS (Amazon Web Services), AWS CloudFormation, Terraform, Docker, Kubernetes, OpenShift, Virtual Private Cloud (VPC), AWS Lambda, EC2 (Elastic Compute Cloud), S3 (Simple Storage Service), RDS (Relational Database Service), DynamoDB, KS (Elastic Kubernetes Service), IAM  (Identity and Access Management), EMR (Elastic MapReduce) |
| **Continuous Integration/Continuous Deployment (CI/CD):** | Jenkins, Git/GitHub, GitLab, SonarQube, Nexus Repository, Artifactory, Docker, Datacenter, Docker Trusted Registry  (DTR) |
| **Containerization and Orchestration:** | Docker, Kubernetes, Helm, |
| **Scripting and Automation:** | Bash, Python, PowerShell, YMAL, Groovy Scripting. |
| **Version Control:** | Git, GitHub, bit-Bucket |
| **Database Management:** | MySQL, PL/SQL, Amazon Redshift, Mongo DB |
| **Monitoring and Logging:** | Splunk, Data Dog, Prometheus, |
| **Configuration Management:** | Chef, Ansible. |
| **Web Servers:** | Apache, Nginx, Tomcat, |
| **Operating Systems:** | Linux (Red Hat, CentOS, Ubuntu, SUSE), Solaris, Windows |
| **Networking:** | VPN, DNS, DHCP, Iptables, Firewall, TCP/IP |
| **Build and Release Tools:** | ANT, Maven |
| **Collaboration and Project Management:** | Jira, Remedy. |
| **Other Tools and Services:** | Spark Streaming, F5 Load Balancer, Elasticsearch, Logstash, Kibana, Terraform Modules, Cloud Watch, Nagios, Zmanda,  VERITAS NetBackup |

**Client: T-Mobile, Seattle Washington May 2023 – Till Date**

# Role: Sr AWS Cloud / DevOps Engineer

* Written scripts from scratch to create AWS infrastructure using languages such as BASH and Python, created Lambda functions to upload code and to check changes in S3, DynamoDB table
* Experience in Branching, Merging, Tagging and maintaining the version across the environments using SCM tools like Subversion (SVN), GIT (GitHub, Gitlab).
* Written Templates for AWS infrastructure as a code using Terraform to build staging and production environments.
* Set up and/or maintained internal Confluence, JIRA, Bitbucket, and Bamboo servers of Atlassian.
* Made recommendations and developed technical design for new applications to be put on the DevOps pipeline and exposed to Sonar for code review and Fortify for security scanning.
* Worked on Continuous Integration (CI) workflow using Virtual Environments like Docker and Kubernetes to build various containers to deploy the micro services-oriented environments for scalable applications. Implemented Twist lock for containers and application security
* Worked closely with operations teams to automate infrastructure provisioning, monitoring, and incident response using tools like Ansible and Prometheus.
* Created pipelines for deploying code from GitHub to Kubernetes (K8s) cluster in the form of Docker containers using Spinnaker platform
* Worked on AWS cloud to provision new instances, S3 Storage Services, AWS EC2, Cloud watch services and CI/CD pipeline management through Jenkins and Created IAM policies for administration in AWS to assist type applications.
* Automate provisioning and repetitive tasks using Terraform and Python, Docker container, Service Orchestration. Worked on cloud automation using AWS cloud formation templates
* Used Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes
* Working with several Atlassian tools like Jira, Bitbucket, Confluence, Fisheye, Crucible
* Used AWS cloud services and Open stack to launch Linux and windows machines, created security groups and written basic PowerShell scripts to take backups and mount network shared drives
* Orchestrated the computing, networking and storage infrastructure of the Kubernetes cluster, utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build test and deploy
* Worked with Terraform Templates to automate the Azure IaaS virtual machines using terraform modules and deployed virtual machine scale sets in production environments.
* Wrote Ansible Playbooks with Python SSH as the Wrapper to Manage Configurations of AWS nodes and Tested Playbooks on AWS instances using Python. Run Ansible Scripts to Provide Dev Servers
* Worked on Jenkins, Bamboo for continuous integration and for End-to-End automation for all build and deployments.
* Used Docker and OpenShift to manage Microservices for development and testing.
* Configured Git with Jenkins and schedule jobs using POLL SCM option and integrated to automate the code checkout process
* Created data as a service (DaaS) based Restful (Jersey) web service with MongoDB data store running on Tomcat.
* Closely worked with Kafka Admin team to set up Kafka cluster setup on the QA, Production environments
* Integrated Git with Jenkins to automate the code check out process and troubleshoot build issues during the code build process as well as implementing and continuous delivery framework using Jenkins
* Used Ansible and Ansible Tower as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manage the changes
* Involved in designing and deploying a multitude of applications utilizing almost all the AWS stack including EC2, Route53, S3, RDS, Ngnix, SNS, SQS, LAMBDA, REDSHIFT, focusing on high availability, fault tolerance and auto-scaling in AWS cloud formation.
* Supported AWS Cloud environment with 200+ AWS instances and configured Elastic IP & Elastic Storage and experience working on implemented security groups and Network ACLs.
* Designed the project workflows/pipelines using Jenkins as CI tool and wrote Python Scripts and BASH Script to automate the build process.
* Creating snapshots and amazon machine images (AMIs) of the instances for backup and creating clone instances.
* Responsible for applying the Corporation's Software Configuration Management processes to projects, setting up and maintaining TFS/GIT/GitHub infrastructure and supporting a continuous delivery model by automating software build and package migration processes.
* Developed enhancements to MongoDB architecture to improve performance and scalability.
* Design and develop continuous deployment pipeline integrating Vagrant, GitLab, Jenkins and Chef across geographically separated hosting zones in AWS.
* Build and Deployment of CI/CD Pipelines. Used IAM to create new accounts, roles and groups and engaged in enabling lambda functions for dynamic creation of Roles.
* Configured AWS Identity and Access Management (IAM) users and groups for improved login authentication.
* Managed the Maven Repository using Nexus tool and used the same to share the snapshots and releases of internal projects.
* Involved in Configuring NFS, NIS, DNS, SSL, HTML and HTTP.
* Created the branches in GIT to implement the parallel development process. Coordinated Release effort amongst various teams (Dev, QA, DBA and Business Analysis) in a geographically separated environment.
* Performed tasks on F5 load balancer like ordering new certs, installing and renewing SSL certificates, bouncing servers with performance issues after taking them out of the server pools, ID maintenance, User, Group management for all the UNIX servers
* Associated in implementing SonarQube code quality analysis tool for the code. Created MySQL Database Objects like Schemas, Tables, Views, Stored Procedures, Indexes (cluster/Nanocluster), and Constraints, Triggers, Buffer Pools, User Roles and functions.
* Have successfully managed high availability of production systems for corporate sectors and Individual Organizations as MySQL DBA.
* Implemented a real-time processing platform using Kafka and Spark streaming to persist data in Cassandra.

**Client: Goldman Sachs Dec 2021 – April 2023**

# Role: Azure DevOps Engineer

* Create and maintain fully automated CI/CD pipelines for code deployment using Jenkins and Nolio CARA tool
* ands-on experience Designing, planning and implementation for existing on-premises applications to AZURE Cloud (ARM), Configured and deployed Azure Automation Scripts utilizing Azure stack Services and Utilities focusing on Automation.
* Configured and implemented storage blobs and Azure files - Created Storage accounts, Configured the Content Delivery Network (CDN), custom domain, Managing access and storage access key.
* Experience in Windows Azure Services like PaaS, IaaS and worked on storages like Blob (Page and Block), Sql Azure. Well experienced in deployment & configuration management and Virtualization.
* Developed and supported the Software Release Management and procedures. Also experienced with working on Subversion, Proposed and implemented branching strategy.
* Used Docker for setting Azure Container Registry with Docker and Docker-compose and actively involved in deployments on Docker using Kubernetes.
* Created CI/CD Pipelines in Azure DevOps environments by providing their dependencies and tasks. Also have experience on implementing and managing continuous delivery systems and methodologies on AWS and created END-END Automation with CI Procedures using Jenkins & automated Maven builds by integrating them with Continuous Integration tools Jenkins
* Used Azure Kubernetes service to deploy a managed Kubernetes cluster in Azure and created an AKS cluster in the Azure portal, with the Azure CLI, also used template driven deployment options such as Resource Manager templates and terraform.
* Configured servers to host Team Foundation Server (TFS ) instance to setup and manage Continuous Integration (CI) using Team Foundation (TF) Build Service.
* Responsible for Administering and Monitoring Visual Studio Team System (VSTS), taking backups and consolidating collections at the time of migration from one version of VSTS to another.
* Defined dependencies and plugins in Maven pom.xml for various activities and integrated Maven with GIT to manage and deploy project related tags.
* Automated various infrastructure activities like Continuous Deployment using Ansible playbooks and has Integrated Ansible with Jenkins on AZURE.
* Designing and implementing fully automated Server build management,
* Actively manage, improve, and monitor cloud infrastructure on AWS, EC2, S3, and RDS, including backups,
* Used CI/CD tools Jenkins, Git/GitLab’s, Jira and Docker registry/daemon for configuration management and automation using Ansible.

# Client: Mindtree, Hyderabad, Ind Oct 2019 – Nov 2021

**Role: SRE / DevOps Engineer**

* Design, develop, implement, maintain and continuously refine data warehouse architectures on AWS
* Hands-on experience in software containerization using Docker and container orchestration tools like Kubernetes and EKS
* Developed Terraform modules for various AWS Services provisioning like KMS, S3, EC2, ASG and IAM roles AWS
* services provisioning using Terraform modules like EC2, KMS, S3, Lambda and EMR
* Creating IAM roles and policies for various customer use cases.
* Experience working with different SRE logging and monitoring tools such as Splunk, New Relic and CloudWatch.
* Expertise on Docker Datacenter by deploying code in different datacenter
* Worked with Docker to package an application with all its dependencies into a standardized unit for Software Development.
* Create Branches in Bitbucket and provide it to developers to check in the code.
* Implemented a Continuous Delivery pipeline with Docker, Jenkins and GitHub and AWS AMI's.
* Implemented APIs allow Docker Datacenter CaaS to easily integrate into existing systems like LDAP/AD, monitoring, logging.
* Good understanding and Created IAM users, Key Management, security protocols, groups and roles and granting permissions for different AWS, Azure and GCP resources.
* Involved in using Jenkins CI/CD Code Deployment plug-in to deploy to AWS.
* In-depth knowledge of AWS automation services - Cloud Formation templates, Terraform
* Worked on google cloud platform (GCP) services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.
* Used VM roles to schedule tasks and customize the machine on which web and worker role running.
* Installed and configured Jenkins with SonarQube and GIT by installing GIT plugins and building the artifacts using Maven automation tool and storing the build artifacts into Nexus repository and deploying it

to WebSphere server.

* Developed Bash and Python scripts to automate various stages of build and release process in Jenkins.
* Defined various CI/CD workflows using Jenkins file groovy DSL scripts.
* Experience working with different SRE logging and monitoring tools such as Splunk, New Relic and CloudWatch.
* Administered the Kubernetes Clusters, performed rolling deployments by updating the Pod definitions, Integrated Kubernetes with Jenkins scripted pipeline.
* Created Shell Scripts to monitor the administrative tasks and automated the tasks to free up the resources using Cron jobs.
* Experience with different bug tracking tools like Jira, Remedy.
* Experience with documenting tool Confluence, used to document the work process and issues that arise with Jira and working with Agile methodologies and all phases of Software development life cycle (SDLC).

# Client: Polaris Consulting, Chennai, Ind Aug 2017 – Oct 2019 Role: DevOps Engineer

* Managed Amazon Web Services (AWS) infrastructure with automation and configuration management tool such as Chef. Designing cloud hosted solutions, specific AWS product suite experience.
* Configuring and Networking of Virtual Private Cloud (VPC) Written Cloud formation templates and deployed AWS resources using it.
* Responsible for building and configuring a virtual Data Centre in AWS cloud to support Enterprise Data warehouse hosting.
* Implemented AWS solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups, Optimized volumes and EC2 instances.
* Automated deployment using configuration Management tools like Chef to provision AWS EC2 Instances to enable continuous Deployments.
* Written Chef Recipes to automate our build/deployment process and do an overall process improvement to any manual process.
* Setup the Chef Infrastructure for the environment for software configurations management and Chef servers, chef workstations, chef nodes and involved in bootstrapping new infrastructure chef nodes.
* Automate Continuous Build and Deploy Scripts for Hudson/Jenkins Continuous Integration tool.
* Experience in installation and implementation of AppDynamics on all Prod and Non-Prod.
* Responsible for build and deployment automation using VMWare ESX, Docker containers and Hudson.
* Experience in Writing Python modules for Ansible customizations.
* Designing and implementing a series of PowerShell l workflows and scripts
* Resolved crucial issues related to Linux server, Puppet and monitoring for Dev environments.
* Developed and scheduled bash shell scripts and Perl scripts for various activities.
* Administration of DevOps tools suite: Jenkins, GitHub, JIRA, Confluence, Puppet and ELK stack, used Run deck for deployment and orchestration.
* Performed provisioning of IaaS, PaaS Virtual Machines and Web, Worker roles on Microsoft AZURE Classic and Azure Resource Manager, and Deployed Web applications on Azure using PowerShell Workflow.
* Configured the Kubernetes provider with an office which is used to interact with resources supported by Kubernetes to create several services such as Config Map, Namespace, Volume, Auto scaler, etc.
* Performed development and version control of Chef Cookbooks, testing of Cookbooks using Test Kitchen and running recipes on nodes managed by on premise Chef Server.
* Created reproducible builds of the Kubernetes applications, templatize Kubernetes manifests, and provided a set of configuration parameters to customize the deployment and Managed releases of Helm packages.
* Built and managed a highly available monitoring infrastructure to monitor different application servers and its components using Nagios with Puppet automation.
* Built and engineered servers on Ubuntu and RHEL Linux. Provisioned virtual servers on VMware and ESX servers using Cloud.
* Configured and integrated the servers for different environments to automatically provision and configuration management of Linux instances using CM/ Provisioning tool Puppet.

# Zeta, Hyderabad Ind. April 2014 – July 2017

**Linux System Administrator**

* Configured and installed Red Hat and Centos Linux Servers on both virtual machine and bare metal Installation
* Troubleshooted and resolved issues with Linux servers, including Red Hat, Ubuntu, CentOS, Debian, and SUSE Linux 12, ensuring optimal performance and minimizing downtime.
* Worked on UNIX, Red hat Linux ES3.0, Linux Desktop, SUSE Linux Enterprise Server 9.0, and AIX 5.2/5.1/4.3 and Ubuntu.
* Installation and configuration of Red Hat Cluster, Veritas Cluster Server and Veritas NetBackup, Apache 1.3.x, Tomcat, WebLogic 9, 10, and JBoss.
* Patching of RHEL5 and Solaris 8, 9, 10 servers for EMC Power path Upgrade for VMAX migration.
* Configuration of LVM (Logical Volume Manager) to manage volume group, logical and physical partitions and importing new physical volumes.
* Documented the standard procedure for installation and deployment of VMAX Migration and logical volume manager.
* Worked with the DBA team for database performance issues, network related issue on Linux / Unix Servers and with vendors for hardware related issues.
* Expanded file system using Solaris Volume Manager (SVM) in the fly in Solaris boxes.
* Managed and upgraded UNIX's server services such as Bind DNS.
* As a member of the Release Engineering group, redefined processes and implemented tools for software builds, patch creation, source control, and release tracking and reporting, on the UNIX platform.
* Worked on Volume management, Disk Management, software RAID solutions using VERITAS Volume manager & Solaris Volume Manager.
* Maintained build related scripts developed in shell for ANT builds. Created and modified build configuration files including Build.xml.
* Converted old builds using MAKE to ANT and XML for doing Java build.
* Developed build and deployment scripts using ANT as build tool to move from one environment to other environments.
* Configuration and administration of Web (Apache), DHCP and FTP Servers in Linux and Solaris servers.
* Supported the backup environments running VERITAS Net Backup 6.5.
* Responsible for setting cron jobs on the servers.
* Decommissioning of the old servers and keeping track of decommissioned and new servers using inventory list.