**SAHITI ANUGU**

**Sr. Cloud/DevOps Engineer**

**LinkedIn:** [www.linkedin.com/in/sahiti-anugu-5009b9206](file:///C:\Desktop\www.linkedin.com\in\sahiti-anugu-5009b9206)

**Email Id:** [sahiti.reddy.psvs@gmail.com](mailto:sahiti.reddy.psvs@gmail.com)

**Mobile No: (984) 212-2926**

**Professional Summary:**

A professional career with over **7 years** of experience in IT industry with major concentration on implementing DevOps strategies in various environments of **Linux/Windows administration** and cloud technologies like **AWS/Azure/GCP**. Infrastructure automation, configuration, and Maintenance with DevOps tools like **Chef, Ansible, Terraform, Docker, Kubernetes.**

* Experience in using **Microsoft Azure** including **Azure CLI, Azure Management, Azure Portal, Azure PowerShell, Azure Management PowerShell Cmdlets.** Real time experience on **Azure** cloud **IaaS and PaaS** Services, Azure SQL, Azure storage and Azure Services. Designed roles and groups using **Azure Active Directory.**
* Configured **Azure SQL Server** for storing the data related to the recruitment and extensively worked on queries and stored procedures.
* Experience in **GCP services** such as App Engine, Compute Engine, Kubernetes Engine, VM Instance, Firewall rules, Snapshots, Instance Templates, Clusters, Storage, Workloads, Monitoring, VPC Network.
* Experience in **AWS services** such as EC2, ELB, Auto-Scaling, EC2 Container Service, S3, IAM, VPC, RDS, DynamoDB, Certificate Manager, Cloud Trail, Cloud Watch, Lambda, Elastic Cache, Glacier, SNS, SQS, Cloud Formation, Cloud Front, EMR, Elastic File System, Storage Gateway.
* Expertise in integrating **Terraform** with **Ansible, Packer** to create and version the AWS Infrastructure, designing, automating and implementing of **Amazon machine images** across the **AWS Cloud environment.**
* Experience in migrating On-premises applications to the cloud and orchestrated cloud infrastructure using **Terraform, CloudFormation** and **Azure Resource Manager (ARM) templates**.
* Experience in working on **version control systems** like Bit Bucket and GIT, clear case, Stash used Source code management client tools like **Visual SVN, GIT Bash, GitHub**. Experienced in branching, tagging and maintaining the version across the environments using SCM tools like GitHub, Subversion (SVN) and TFS on Linux and Windows platforms.
* Expert at building the code in **Maven,** controlling the source code using **Git**, continuously integrating, and deploying the code using **Jenkins**. Experience with Build Management tools like **Ant** and **Maven**. Experience on **Maven** to create artifacts from source code and deploy them in **Nexus central repository** for internal deployments.
* Expertise in writing playbooks to deploy services on Cloud, applications and to write modules in **Ansible** for implementing automation of continuous deployment and automated various infrastructure activities like Continuous Deployment, Application server setup, Stack monitoring using **Ansible playbooks**. Wrote Ansible Playbooks with **Python SSH** as the Wrapper to Manage Configurations of AWS Nodes and Test. Run **Ansible Scripts** to provision Dev servers.
* Experience in **Configuring Chef server, Chef Workstation,** bootstrapping various enterprise nodes and automated the cloud deployments using Chef, Ruby and AWS Cloud Formation Templates. Experience in creating and updating **Chef recipes** and **cookbooks**, profiles and roles using **Ruby** and **JSON** scripting and migrated all nodes from ansible configuration system to chef system.
* Experience in configuring **Docker file** with different artifacts to make an image and using **Ansible Playbooks** deployed those **Docker Images** to different servers for running the applications on containers.
* Experience in working with **Kubernetes** to automate deployment, scaling and management of web Containerized applications and Integrated **Kubernetes** with Registry, networking, storage, security and telemetry to provide comprehensive infrastructure and orchestrate containers. Playbooks on **AWS instances** using Python.
* Experience in installing and configuring the application and web servers like **Apache, Nginx, Tomcat, JBoss, WebSphere, Web Logic** and deployed several applications on these servers.
* Expertise in **Shell, Perl, Ruby, Python** for Environment Builds and Automating Deployment on **WebSphere, Web Logic Application Servers.**
* Extensively worked with **Splunk, ELK, Nagios, App dynamics,** Dynatrace for resource monitoring, network monitoring and Log Trace Monitoring.
* Worked on database technology and warehousing such as **MySQL, PostgreSQL, Aurora,** and **Redshift** including **NoSQL** databases such as **Apache, MongoDB, Cassandra** and **Dynamo DB**.
* Experience in maintaining Servers, workstations and computer labs including **software** and **hardware VMWARE, Oracle Virtual box** and **Putty.**
* Experienced in Configuring Servers to provide Networking Services, including **HTTP/HTTPS, FTP, NFS, SMTP, SSH** and **LDAP.**
* Experience in Managing/Tracking the defects status by using **JIRA tool** and Planning & resolving the issues as per SLA.

**Technical skills:**

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| **Cloud Environment** | AWS, Azure, GCP |
| **Operating systems** | Windows, Cent OS, Red Hat Linux, Linux, Ubuntu |
| **Web Servers** | Apache Server, Tomcat, Nginx, Jboss. |
| **Orchestration Platform** | Kubernetes, Docker Swarm |
| **Version** **Control Tools** | Git, GitHub, Bitbucket, SVN |
| **Continuous Integration Tools** | Jenkins, Hudson, Bamboo |
| **Database** | MySQL, PostgreSQL, DynamoDB, MongoDB, MariaDB, Cassandra |
| **Build Tools** | Maven, Gradle, Ant, MS Build |
| **Deployment Tools** | Chef, Ansible, Puppet |
| **Tracking Tools** | JIRA, Service Now, SonarQube |
| **Monitoring Tools** | Nagios, Splunk, AppDynamics, Dynatrace, CloudWatch, ELK |
| **Network Protocols** | TCP/IP, UDP, DHCP, HTTPS, DNS, DHCP, FTP, TFTP, SSH, and Telnet |
| **CloudMigration/Infrastructure Spin-up Tools** | Terraform, Cloud Formation, ARM Templates |
| **Scripting Languages** | Shell, Bash, Python, PowerShell, JSON, YAML, Ruby |
| **IDE** | Visual Studio, IntelliJ |
| **Repository Management** | Nexus, Jfrog Artifactory |

**Client: UpKeep Maintenance Management CMMS, Los Angeles, CA (July 2020 – Present)**

**Role: Sr. Cloud Engineer**

**Responsibilities:**

* Worked on **Azure Site Recovery** and Azure Backup- Installed and Configured the **Azure Backup** agent and virtual machine backup, Enabled Azure Virtual machine backup from the **Vault** and configured the **ASR** and created multiple Virtual Machines using **PowerShell** scripting for the testing purposes.
* Coordinating with Microsoft for increasing subscription limit like- Core limit and Cloud Services. Handling and Resolving Client's Issues remotely.
* Worked on **Microsoft Azure (Public) Cloud** to provide **IaaS** support to client. Create Virtual Machines through PowerShell Script and Azure Portal.
* Created multiple resources in **Microsoft Azure**, including **Resource Groups**, configured **Azure Virtual Networks (VNets), subnets**, Site to Site connectivity, Storage Accounts, and other resources. Performed health check of existing **SCCM structure** managing servers in both dev and prod subscriptions.
* Migrated applications from **on-premises to** **Azure Cloud** and created custom sized images for VM's and configured **Azure Backup Service** for taking backup of Azure VM and data of on premise to Azure.
* Migrated SQL Server databases to SQL Azure Database using **SQL Azure Migration Wizard** and used **Python API** to upload agent logs into Azure blob storage and in migration from on-premises to **Azure Cloud** and created custom images for VM's and Configured Azure Backup Service for taking backup of Azure VM and data of on premise to Azure.
* **Azure IaaS virtual machines (VMs)** **and Cloud services (PaaS role instances)** into secure VNets and subnets, designed VNets and subscriptions to conform to Azure Network Limits. Created Storage Pool and Stripping of Disk for Azure Virtual Machines. Configure and Restore Azure Virtual Machine using **Azure Backup.**
* Worked with **Azure Express Route** to create private connections between **Azure datacenters** and infrastructure for on premises and in co-location environment.
* Created **Azure Graphical runbooks,** Automation Assets, **PowerShell runbooks** that automates specific tasks. Deployed Azure AD Connect, configured ADFS authentication flow, ADFS installation using Azure AD Connect.
* Managed Azure infrastructure **Azure Web Roles**, Worker Roles, **SQL Azure,** Azure Storage, Azure AD Licenses, **Office 365.** Virtual Machine Backup and Recover from a Recovery Services Vault using Azure Power Shell and Portal.
* Launched **AWS EC2 instances** using Amazon Web Services such as **Linux, Ubuntu, RHEL** for Development, Test and Production Environments and set up AWS security groups which behaves as Virtual firewalls controlling the traffic by allowing it to reach one or more AWS EC2 instances.
* Designed **AWS Cloud Formation templates** to create custom **sized VPC, Subnets, NAT** to ensure successful deployment of Web applications and database templates.
* Provided highly durable data by using S3 Data store, Versioning, Lifecycle Policies, and created **AMI’s** for mission critical production servers for backup and worked on end-to-end deployment ownership for projects on AWS which included Python scripting for automation, scalability, build promotions for staging to production etc.
* Converted existing **Terraform modules** that had version conflicts to utilize cloud formation during **Terraform** deployments to enable more control or missing capabilities.
* Worked on Docker service for our **Docker images** and worked with **Docker container** networks communications using Docker Weave rolling updates to implement zero downtime PROD deployments and worked with Docker Trusted Registry as repository.
* Worked on **Docker-Compose, Docker-Machine** to create Docker containers for Testing applications in the QA
* Deployed spring boot applications using the **Docker** and **Kubernetes** in various environment and automated the deployments, scaling and management of containerized applications across clusters of hosts using **Kubernetes.**
* Implemented **Kubernetes** to deploy scale, load balance and manage **docker containers** with multiple namespace versions and implemented a production ready, Load balanced, Highly available, Fault tolerant Kubernetes infrastructure.
* Configured **Kubernetes Services** type load balancer and Cluster IP to expose UI based application and migrated cluster CNI from Flannel to Kube Router to support Kubernetes network policies.
* Deployed and configured Prometheus to monitor **Kubernetes nodes** with node-exporter, monitor Kubernetes API.
* Managed the Version Control System **GIT** to record the various code changes like branching, merging, staging. Integrated **GIT** into Continuous Integration Environment using **Jenkins/Hudson.**
* Automated continuous build using **Maven** and deploy scripts for Continuous Integration tool **Jenkins** to enhance the overall operational environment.
* Created **Jenkins environment** and configuring end-to-end build pipeline and involved in all area of Jenkins Plugin management, securing Jenkins, Performance issues, Analytics, Scaling Jenkins, integrating code analysis, and Test Phases to complete the **CD pipeline** with **Jenkins.**
* Automated configuration management and deployments using **Ansible playbooks** and **YAML** for resource declaration. Created roles and updated Playbooks to provision servers by using Ansible.
* Installed, Configured, and managed **Ansible Centralized Server** and creating the playbooks to support various middleware application servers, and involved in configuring the Ansible tower as a configuration management tool to automate repetitive task.
* Designed and developed a configuration management database (CMDB) using **Python** and **MySQL** to maintain and audit the everyday configuration changes.
* 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.
* Writing new plugins in **Nagios** to monitor resources and working in implementation team to build and engineer servers on **RHEL** Linux provisioning virtual servers on VMware and ESX servers using Cloud.
* Involved in setting up application servers like **Tomcat, WebLogic** across Linux platforms as well as wrote **shell scripts, Bash** scripting on Linux.
* Used **JIRA** for creating bugs tickets, storyboarding, pulling reports from dashboard, creating and planning Sprints.
* Worked with Team Leads and Managers to resolve the production issues.

**Environment:** Azure, AWS, VPC, S3, SNS, Kubernetes, Docker, Ansible, Jenkins, Git, Maven Terraform, Python, Shell Script, Nagios, YAML, CloudWatch, Jira.

**Client: Baylor Scott And White Healthcare, Dallas, TX (January 2020 – June 2020)**

**Role: GCP Cloud DevOps Engineer**

**Responsibilities:**

* Created **GCP Firewalls** through GCP console and **REST API** and defined at the **VPC network** with default and implied rules for sensitive information to restrict the access for data storage on virtual machines in VPC.
* Secured the GCP infrastructure with **Private, Public subnets** as well as **security groups** and leveraged the Google cloud services such as compute, auto-scaling and VPC to build secure, Scalable systems to handle unexpected workloads.
* Configured a Google Cloud Virtual Private Cloud (VPC) and Database Subnet Group for isolation of resources. Architecting the infrastructure on Google cloud platform using **GCP services** and automated GCP infrastructure using **GCP Cloud Deployment manager.**
* Deployed **Kubernetes cluster** in production using **Terraform scripts** and Troubleshooted networking related issue.
* Developed Continuous Deployment pipeline by integrating **Jenkins** with **Terraform.**
* Implemented **Docker** to provision workers dynamically as needed. Created and maintained **Docker files** in Source Code Repository build images. Handled multiple **Docker images** primarily for middleware installations and domain configurations. Installation and configuration of **ELK stack** (Log Management tool) in both legacy and **Docker swarm mode.**
* Building and maintaining Docker container clusters managed **by Kubernetes, Linux, Bash, GIT, Docker,** on **GCP**. Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test, deploy.
* Used **Pods, Master** and **Minion in Kubernetes,** Master serves **RESTful Kubernetes** API that validates and configures Pod, Service, and Replication Controller in Kubernetes.
* Utilized **Kubernetes** to deploy scale, load balance, scale and manage Docker swarm with multiple name-spaced versions; configured private cloud using **Kubernetes** that supports DEV, TEST, and PROD environments and worked on implementing microservices on various Kubernetes Clusters.
* Wrote **Ansible Playbooks** with **Python SSH** as the Wrapper to manage configuration of GCP Nodes and Test Playbooks on GCP instances using Python and ran Ansible Scripts to provision Dev servers.
* Implemented automated local user provisioning in instances created in **OpenStack** cloud through Ansible playbooks.
* Analyzed various distributed file systems suitable for a cloud storage using a storage benchmark Tested a private storage cloud using **OpenStack SWIFT software** and worked as well with OpenStack Multi-node installation and configuration.
* Wrote **Ansible Playbooks** and roles in Python to provision several pre-prod environments consisting of **Cassandra DB installations**, **WebLogic domain creations** and several proprietary middleware installations.
* Used Ansible server to manage and configure nodes, Managed Ansible Playbooks with Ansible roles. Used file module in Ansible Playbook to copy and remove files on remote systems.
* Designing and implementing CI (Continuous integration) system and configuring **Jenkins servers** and nodes by writing required scripts (Bash & Python) and creating configuring VMs.
* Used **GIT version control** to manage the source code and integrating with Jenkins to support build automation and integrated with **JIRA** to monitor the commits and worked with Ansible tower for scheduling playbooks and used **GIT repository** to store these playbooks and implemented continuous deployment pipeline with Jenkins.
* Installed and administrated **Nexus repository** to deploy the artifacts generated by **Maven** and to store the dependent jars which are used during the build.
* Administrated Linux servers for several functions including managing **Apache/Tomcat,** and **MYSQL** database in both development and production.
* Managed Virtual servers **(Ubuntu, RHEL, Centos)** on AWS EC2 using Open-source Chef Server.
* Perform daily maintenance routines on Linux servers, monitoring system access, managing file space and tuning the system for optimum performance.

**Environment:** GCP, OpenStack, Terraform, Chef, Ansible, Docker, Kubernetes, Jenkins, GIT, Maven, Nexus, New Relic.

**Client: Genpact, Hyderabad, India (July 2017 – November 2019)**

**Role: AWS DevOps Engineer**

**Responsibilities:**

* Created and Worked with Amazon AWS Cloud Services, **(EC2, S3, EBS, ELB, Cloud Watch, Elastic IP, RDS, SNS, SQS, Glacier, IAM, VPC, Cloud Formation, Route53)** and managing security groups on AWS, focusing on high-availability, fault tolerance, and auto-scaling.
* Worked on POC for Deploying the **AWS** infrastructure using **CloudFormation.** Created and configured Redshift Cluster for data-warehousing responsible for Security, included opening different ports on security groups and Network ACL. Built S3 buckets and managed policies for S3 buckets and used S3 bucket and Glacier for storage and backup on **AWS.**
* Support Design and implementation of the **continuous delivery** pipeline, using **continuous integration**,   
  **continuous delivery** and automated environment provisioning.
* Written **Chef Recipes** to automate our build/deployment process and do an overall process improvement to any manual process.
* Setup and maintained automated environment using **Chef Recipes** within AWS environment. Good understanding of **Knife, Chef Bootstrap** process etc.
* Provisioning and Configuring the **Docker containers** and creating **Docker files** for different environments
* Configuring the **build** and **release activities** on both enterprise level and web applications.
* Administer **Splunk** Software Development Kit for JavaScript, Python and AWS Cloud Formation templates for Splunk distributed cluster deployment. Maintain and deploy builds in UAT and Production environment.
* Providing continuous improvement to agile software development teams by working with **Jenkins** under the **CI/CD pipeline**. Integrated **Ant, Nexus, Jenkins, SVN, Confluence** and **JIRA.**
* Involved in **JIRA** as defect tracking system and configure various workflows, customizations and plug-ins for JIRA bug/issue tracker, integrated Jenkins with JIRA, SVN.
* Used Version Control tool, SVN to create branches and implement parallel development process. Implemented a GIT mirror for SVN repository, which enables users to use both **GIT** and **SVN**.
* **Python Scripting** in DevOps, to model and manage the entire application from load balancers to a database
* Developed Shell Scripts and Perl for automation of the build and release process.
* Created artifact documents through the source code and internal deployment in **Nexus repository.** Implemented Disaster recovery project on **AWS** using various DevOps automation for CI/CD.
* Collaborate with infrastructure team, software engineers, business analysts, and other company stakeholders assemble prerequisites and execute frameworks to meet business and technical objectives, SLAs, availability needs, and capacity requirements including **high availability, farms/clusters, and disaster recovery.**

**Environment:** AWS, Linux, Python, Chef, Jenkins, Ruby, JIRA, GIT, Vagrant, SVN, Nexus,

JIRA, Java, ANT, RHEL 6.7/6.8/7.1/7.2, Bash, NT Command Shell, Nagios

**Client: Fortis Healthcare, Bangalore, India (September 2015– June 2017)**

**Role: Build and Release Engineer**

**Responsibilities:**

* Involved in DevOps migration/automation processes for build and deploy systems. Used **Jenkins/Hudson** and implemented CI/CD pipeline using plugins like conditional build step, deploy to **Git.**
* Pipeline and automated the static code analysis through **SonarQube** in **Jenkins pipeline** for checking code quality.
* Installed and administered repository to deploy the artifacts generated by **ANT** and to store the dependent jars, which were used during the build.
* Responsible for automated Scheduled Builds/Emergency Builds and Release using **ANT scripts** for an Enterprise application (J2EE).
* Implemented **CI/CD** **web hooks** & workflows around Jenkins to automate the dev test deploy workflow around Puppet codebase. Installed and Managed **Jenkins** and **Nexus** for CI and Sharing Artifacts respectively within the company.
* Used **GIT version control** to manage the source code and integrating with Jenkins/Hudson to support build automation and integrated with JIRA to monitor the commits.
* Integrated the **GIT** by using Webhooks and Scripted Rest API in **ServiceNow** and stored the information in ServiceNow table. Worked on authoring pom.xml files, performing releases with the **Maven** release plugin, and managing artifacts in maven internal repository.
* Assisted on monitoring servers and responding to event notifications (Service outages, Load Alerts etc.) using **Nagios.**
* Built, Configured and Maintained Apache web server, kickstart, NFS, Samba and DNS servers on **Red Hat** and **CentOS.**

**Environment:** Linux, Bamboo, Subversion, Perforce, Nagios, ANT, Python, CentOS, Ubuntu, Kickstart, VMware, TCP/IP, NFS, DNS, SNMP, and DHCP.

**Client: Adisa Solutions Pvt Ltd, Bangalore, India (June 2014 –August 2015)**

**Role: Linux System Administrator**

**Responsibilities:**

* Administration of **RHEL** 5/6 that includes installation, testing, tuning, upgrading and loading patches, troubleshooting both physical and virtual server issues.
* Worked on creating, cloning Linux virtual Machines, templates using VMware Virtual Client 3.5 and migrating servers between ESX hosts.
* Installed and managed **Red Hat Linux** using Kickstart and applying security policies for hardening the server based on the company policies.
* Worked on troubleshooting Linux network, security related issues, capturing packets using tools such as iptables, firewall, TCP wrappers and NMAP.
* Maintaining, supporting, troubleshooting, configuration, installing, and deploying upgrades on Linux servers and creating & managing LAMP Stack, using **Linux, APACHE, MariaDB, MySQL, PHP.**
* Extensive experience in Software Development Life Cycle (SDLC) including requirements analysis, design specification, coding and testing of enterprise applications.
* To consider and identify the discrepancies in the system, to assess the risks, and to implement solutions by adhering to the security standards.
* Wrote **UNIX shell scripts** to login to Oracle databases and execute multiple queries, views and concurrent programs.
* Developed Unix shell programs and scripts to maximize productivity and resolve issues.
* Created disk groups, volume groups and RAIDs using Veritas Volume Manager and installed and configured **MySQL** on Linux Server for test and development environment.

**Environment:** RHEL 5/6, Red Hat Linux, Linux, APACHE, MariaDB, MySQL, PHP