**Sandeep Guntupalli**

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**Professional Summary**

**Certification Details:**

* Having Certification on Kubernetes Administration (CKA)
* Having Certification on AWS Cloud Practitioner Essentials
* I have over all 11 years of experience in IT industry management, Continuous Integration and Continuous Delivery management and AWS as Infrastructure as a code.
* Experience in using AWS including EC2, Auto-Scaling in launching EC2 instances, Elastic Load Balancer, Elastic Beanstalk, S3, Glacier, Cloud Front, RDS, VPC, Route53, Cloud Watch, Security Group, Cloud Formation, IAM, SNS.
* Experience in branching, tagging and maintaining the version across the environments using SCM tools like Subversion (SVN) and GIT on UNIX and Windows environment.
* Orchestrated and migrated CI/CD processes using Cloud Formation and Terraform Templates and Containerized the infrastructure using Docker.
* Involved in set up for Continuous Integration and Continuous Deployments with Jenkins and Hudson from Scratch for end-to-end automation.
* Learned Queues using MQ Commands and the MQMON monitoring tool.
* Application Deployments and environment configuration using Chef.
* Replaced existing manual deployment and management process with Ansible/Chef in different environments.
* Implementing continuous delivery framework using Jenkins, Chef.
* **Experience working with Apache Hadoop, Kafka, Spark and Log stash.**
* **Worked with Apache Kafka for**High throughput for both publishing and subscribing, with disk.
* Assistance in the Elastic search, Jira and Chef Server setup for partners and training other DevOps with best practice methods and procedures.
* Experience in creating Docker Images using Docker Hub and handling multiple images primarily for middleware installations and domain configurations.
* 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
* Involved in Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker, on AWS. Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploy.
* Orchestrated and migrated CI/CD processes using Cloud Formation and Terraform Templates and Containerized the infrastructure using Docker.
* Created customized dashboards for teams.
* Developed confluence pages.
* Provided security and managed user access and quota using AWS Identity and Access Management (IAM) which included creating new Policies for user management in JSON.
* Experienced in centralized logging and monitoring stack of Elastic Search, Logstash and Kibana.
* Involved in container-based deployments using Docker working with Docker images, Docker Hub and Docker registries and Kubernetes.
* Worked extensively on automation engine using Ansible that automates cloud provisioning, configuration management, application deployment, intra-service orchestration, and many other IT needs.
* Experienced in writing Shell, Bash, Perl, Python and PowerShell scripts to automate the deployments.
* Proficient in troubleshooting and system Patching.
* Experience in working with Software Development Life Cycle (SDLC) and Agile Methodologies & Validations to ensure the Quality Assurance Control.
* Skilled in Bug tracking and raising tickets in JIRA and escalating tickets in ServiceNow.
* Experienced with ITIL AND ITSM in Service Now.
* Proficient in Networking and configuring TCP/IP, DNS, SAMBA, SSH, SMTP, HTTP/HTTPS, FTP.
* Skilled in Administration of Production, Development and Test environments carrying different operating system platforms like Windows, Ubuntu, Red Hat Linux, Centos, Unix, IOS.
* Experience in writing Infrastructure as a code(IaC) in Terraform to deploy the resources and services
* Experience in setting up CICD pipeline with devops service to build and deploy the infrastructure using Terraform
* Conducting infrastructure provisioning using Terraform
* Create common Terraform modules (referencing other Github modules) for use across multiple AWS environments.
* Creating AWS VPC, subnets, routing and VPC Gateways both via Console and using Terraform. Create VPN and Direct Connect network connections with existing infrastructure. Create Virtual private gateway associations.

**TECHNICAL SKLLS:**

# Source Code Management : GIT, Bitbucket, SVN

* Build/ CI Tools : Maven, Jenkins.
* Monitoring Tools : ELK, Splunk, Cloud Watch, Grafana.
* Database Management : Oracle,SQL, PL/SQL, Redshift
* Web/Application Servers : Apache Tomcat, HTTP Server.
* Containerization tools : Docker, Kubernetes
* Orchestration Tools : Terraform ,Cloud Formation
* Configuration Tools : Ansible
* Cloud Services : AWS
* Bug Tracking : Jira Kanban.
* Programming Languages : Shell, Python, Bash Scripting

# Operating Systems : Windows, UNIX, Linux, Ubuntu

# Testing Tools : Selenium

**Professional Experience:**

**Client: T-Mobile.**

**Role: DevOps/Kubernetes Developer**

* Developed and implemented Software Release Management strategies for various applications according to the agile process.
* Configured Continuous Integration by setting up Build and test automation (ATDD) Jobs in Hudson/Jenkins by pointing to Orchestration and UI layer Repositories in GitHub/Subversion.
* Working with various Devops tools such as GIT, Maven, Jenkins.
* Automate deployment process using configuration management tool Puppet.
* Worked on Ruby to write GIT applications.
* Worked on Nagios for monitoring the systems.
* Created automation tool using Anthill Pro of daily weekly quarterly admin activities, build, patch and package tasks using Anthill Pro.
* Developed and maintained Perl/Shell scripts for build and release tasks.
* Utilized CVS and ClearCase for maintaining build and release strategies.
* Implementing various development, testing automation tools and IT Infrastructure.
* Building and setting up new development tools and infrastructure.
* Application Deployments and environment configuration using Chef.
* Replaced existing manual deployment and management process with Ansible/Chef in different environments.
* Implementing continuous delivery framework using Jenkins, Chef.

**Client: Cigna Corporation. August 2017 – August 2021**

**Role: AWS DevOps Engineer**

* Involved with implementation team, to build & deploy for multiple releases like maintenance release, enhancement release, emergency releases for Linux and Windows OS on AWS.
* Coordinated with team for update code deployment with the help of Jenkins and AWS code deploy into the different environments.
* Provided security and managed user access and quota using AWS Identity and Access Management (IAM) which included creating new Policies for user management in JSON.
* Involved in automating backups using python scripts to transfer data in S3 bucket.
* Automated the data flow from S3 buckets to the different designed data with lambda scripts.
* Developed an existing python script to add a new field and loaded it in the Athena table and created tables using Dynamo DB and S3 buckets.
* Validated scripts for different code development for data ingestion process.
* Created a S3 bucket with bucket policy to store the logfiles.
* Worked on Monitoring/Alerting tools such as Prometheus, Grafana.
* Worked with team to build out automation templates in AWS Cloud Formation.
* Configured and managed Elastic Load Balancing to avoid single point of failure of applications, thus providing high availability and network load balancing.
* Configured Elastic Load Balancers with EC2 Auto scaling groups.
* Managed security groups, VPC specific to the environment.
* Involved in maintenance and performance of Confidential instances.
* Helping Scrum master across the company to customize JIRA for their requirements.
* On rotational calls for deployments.
* Worked with containerization tools, can implement the transition to Docker and develop a distributed cloud system using Kubernetes.

**Client:** **JP Morgan Chase Banking(JPMC). August2015 – August 2017**

**Role: AWS DevOps Engineer**

* Provided consistent environment using Kubernetes for deployment scaling and load balancing to the application from dev through production, easing the code development and deployment pipeline by implementing Docker containerization with multiple namespaces to divide cluster resources between multiple users.
* Experience in working with Ansible versions 1.8 & 2.0, Tower version 2.1.
* Experience in creating inventory, job templates and scheduling jobs using Ansible Tower.
* Worked as a Release Engineer for a team that involved different development teams and multiple simultaneous software releases.
* Configured and maintained Jenkins to implement the CI process and integrated the tool with Maven to schedule the builds.
* Designed, built and coordinate an automated build & release CI/CD process using Gitlab, Jenkins and Ansible on hybrid IT infrastructure
* Monitored and alerted of production and corporate servers such as EC2 and storage such as S3 buckets using AWS Cloud Watch, Cloud Front. Developed Dev, Test and Prod environments of different applications on AWS by provisioning Kubernetes clusters on EC2 instances using Docker, Ansible, and Terraform.
* Responsible for converting existing systems to infrastructure as code (**Terraform**) while maintaining platform stability.
* Monitored and alerted of production and corporate servers such as EC2 and storage such as S3 buckets using AWS Cloud Watch, Cloud Front. Developed Dev, Test and Prod environments of different applications on AWS by provisioning Kubernetes clusters on EC2 instances using Docker, Ansible, and Terraform.
* Used Flume, Kafka to aggregate log data into HDFS.
* Developed a stream filtering system using Spark streaming on top of Apache Kafka.
* Designed a system using Kafka to auto - scale the backend servers based on the events throughput.
* Built Jenkins pipeline to drive all microservices builds out to the Docker registry and then deployed to Kubernetes by creating and managing pods using Kubernetes.
* Worked with Red Hat Open Shift Container Platform for Docker and Kubernetes, to manage containerized applications using its nodes, Config Maps, selector, Services & deployed application containers as Pods.
* SCM is performed using GIT from master repository and knowledge on container management using Docker by creating Docker images.
* Build, test and deploy patches for OpenStack and Kubernetes codebase.
* Scan identified and Fixed security defects in OpenStack codebase.
* Created additional Docker Slave Nodes for Jenkins using custom Docker Images and pulled them to ECR.
* Setting up Splunk Monitoring on project environments to monitor application logs and system logs.
* Setting automated email rules in Splunk for error messages.
* Installing Splunk forwarders on project instances to monitor application logs and systems logs.
* Managing Nagios for notifications.
* Able to create scripts for system administration and AWS using languages such as BASH and Python.
* Building RESTful APIs in front of diverse types of NoSQL storage engines.
* Installing, configuring and administering Jenkins CI tool on Linux machines.
* Worked with Development Team Leads and Testing teams to establish a build schedule, execute the builds and troubleshoot build failures, if any.
* Implemented Ansible to manage all existing servers and automate the build/configuration of new servers.

**Ericsson**

**Role: AWS Cloud Engineer April 2015 – August 2015**

* Maintained the customer accounts (IAM), RDS, Route 53, SES and SNS benefits in AWS cloud.
* Implemented and managed IAM service to grant permissions and resources to users.
* Created EBS volumes to EC2 instances by attaching and detaching.
* Worked on version control tools like GitHub and SVN to check-In the code.
* Managed security groups, VPC specific to the environment
* Involved in maintenance and performance of Confidential instances.
* Involved in designing and developing Confidential, Amazon S3, Amazon RDS, Amazon Elastic Load Balancing, Amazon SQS, and other services of the AWS infrastructure.
* Provided daily progress report and documentation of Test Results to stakeholders.
* Worked on a POC to deploy a sample application for Docker containers.
* Developed shell scripts for automation of the build and release process.
* Worked with Ansible for virtual and physical instance provisioning, configuration management, patching and software deployment on AWS environments.
* Experience with container-based deployments using Docker, working with Docker images, Docker Hub and Docker-registries and Kubernetes.
* Developed and engineered ScienceLogic EM7 using Linux, Apache, MySQL, PHP, and leveraging Python for backend processing.
* Worked on the creation of custom Docker container images, tagging and pushing the images.
* Creating the Docker containers and Docker consoles for managing the application life cycle.
* Scripted internal automation via various scripting languages like Shell and Perl.
* Deployed the Java applications into web application servers, Web logic

**Client : TSSPDCL**

**Energy Billing System August 2011 to April 2015**

**Oracle, PL/SQL, Unix**

* Requirement gathering from the Business Team.
* Convert the functional requirements into technical document as per the business standards.
* Analyze the Existing code and do the impact analysis.
* Created Database Objects like tables, Views, Indexes, sequences, Synonyms, Stored Procedures, functions, Packages, Cursors, Ref Cursor and Triggers as per the Business requirements.
* Involved in modifying various existing packages, Procedures, functions, triggers according to the new business needs.
* Wrote SQL Queries using Joins, Sub Queries and correlated sub-Queries to retrieve data from the database.
* Used SQL Loader to upload the information into the database and using UTL\_FILE packages write data to files.
* Involved in explain plan for query optimization. Code validation as per client requirement
* **Educational Qualification:**
* **B. Tech** (Computers & Science) from Kamareddy Engineering College in 2011.