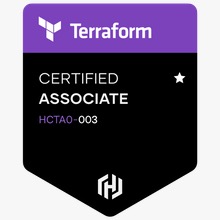
****[](https://www.credly.com/badges/ad56df0d-042a-4ff9-b67c-70ea77ce32bb/whatsapp)**Venkata Sandeep**

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**Professional Summary:**

* 9 years of IT Industry Experience in Linux Administration, Configuration Management, Continuous Integration, Continuous Deployment and Cloud Implementations.
* Having good experience in DevOps tools like **Chef** and **PUPPET** for deployment on multiple platforms.
* Experience using **AWS** Managed Services like **VPC**, **EC2**, **S3**, **Lambda**, **code deploy,code build** and **code pipeline** AWS SSO, **Route53**, ELB, EBS, IAM, ECS, KMS and CMK, AWS Firewall.
* Strong experience on DevOps essential tools like **Puppet**, **Ansible**, **Docker**, **Kubernetes**, **GIT**, **Jenkins**, Ant, Maven, and migrated VMware VMs to AWS using AWS Migration Hub.
* Experience in AWS Storage services and SQL, NoSQL Databases like **S3**, **RDS**, DynamoDB, Aurora, Deep Archive, In-memory Database Redis, CDN services like **CloudFront**, API Gateway, Lambda, **Kinesis**.
* Strong Experience in Design, implement, and support Oracle databases in online transaction and batch environments.
* Experience in Building Production-Grade Orchestration Platforms using Kubernetes and **AWS EKS**.
* Automated the Continuous Build process, monitored, maintained, and controlled software configuration in secured distributed environment.
* Experience in setting up and Maintaining Multiple AWS Accounts using AWS Organizations and Landing Zone.
* Experience in Implementing Service mesh like Istio for **Kubernetes** metrics and monitoring using sidecar Proxy.
* Improved continuous integration workflow, project testing, and deployments with Jenkins. Implemented code coverage and unit test plug-ins with Maven in Jenkins.
* Experienced in automating, configuring, and deploying instances on AWS Cloud environment and in Data centers.
* Experience in automation of **Kubernetes** based deployments with Ansible using playbooks and using Helm charts for Deployment of Microservices.
* Designed AWS CloudFormation templates to create customized **VPC**, **subnets**, **NAT** to ensure successful deployment of Web applications and database templates.
* Focused on continuous integration and continuous deployment and promote enterprise solution deployment assets to target environments. Good understanding in monitoring tools like **SiteScope, Splunk and Wily Introscope.**
* Experienced in deployingapplications through **HP Operations Orchestration.**
* Utilized Cloud Watch to monitor resources such as **EC2**, CPU memory, **Amazon RDS** DB services, Dynamo DB tables, EBS volumes to set alarms for notification or automated actions; and to monitor logs for a better understanding and operation of the system.
* Experience in Virtualization administration and configuration (VMware, VMware ESX, Xen).
* Good knowledge on Network Topology (LAN/WAN/Subnets/VPN Firewalls).
* Experienced in deployingapplications through **BMC BladeLogic server.**
* Experienced in deploying applications through **IBM Urban Code Deploy** and **Ansible.**
* Experienced in integration on **HPOO** to **BladeLogic** server.
* Involved in several projects setting up builds using **Jenkins, Git, Bit Bucket and Ansible**
* Strong experience in Continuous Integration with **Jenkins, Hudson** and integrated Jenkins with **Maven**, **SVN**, **SonarQube**, **Nexus** and **Chef**.
* Experience in automation (writing Shell and Perl scripts) to monitor UNIX production applications.
* Created environment for Docker Migration and dockerized all the services and applications.
* Designed and developed **automated deployment** and scaling processes based on **Docker** for all services and deployed **Docker Containers to vagrant boxes** using **Ansible.**
* Experienced in Implementation, configuration, administration of **AppDynamics** monitoring tool.
* Experienced in Implementation, configuration, administration of **CA Wily Introscope investigator.**
* Experienced in managing the performance of Applications using monitoring tools like **AppDynamics.**
* Automated the deployment process by integrating code repository using build pipeline Jenkins, Bamboo andGoCD for Continuous Integration and Continuous Deployment that can run on the cloud or on-premises.

***Technical Skills***

|  |  |
| --- | --- |
| **Operating Systems** | Red Hat, Windows, Ubuntu, CentOS, Debian |
| **Virtualization Technologies** | Oracle Virtual Box, Docker, VMware |
| **Cloud Technologies** | AWS (Amazon Web Services),Azure |
| **Infrastructure Automation** | Terraform, Ansible, SRE |
| **Source Control/ Versioning Tools** | Git, Gitlab, GitHub, Bitbucket |
| **Configuration Management** | Ansible, Chef, Puppet, Docker |
| **Continuous Integration Tools** | Jenkins, Maven, Bamboo, SRE, Databricks |
| **Servers** | WebLogic, Apache Tomcat, Nginx, WebSphere |
| **Programing** | Java, Python, Shell, bash scripting |
| **Databases** | MySQL, PostgreSQL, MongoDB, Redis, Elastic Search |
| **Services** | LDAP, DNS, BIND, HTTP, HTTPS, POP3, NFS, TLS/SSL, DHCP, Kerberos |
| **Ticketing Tools** | JIRA, Clear Quest |
| **Monitoring Tools** | AWS CloudWatch, Prometheus, Grafana, Nagios, ELK |
| **Static Code Scanning Tools** | SonarQube, Fortify |

***Work History***

**AWS Solutions Architect** Aug 2021 – Till date

**Anthem-**Atlanta, GA

**Key Contributions:**

* Deployed projects using **AWS EC2, S3, Data pipeline, Elastic Beanstalk, cloud watch, Elastic search, AWS server migration service, Lambda, Amazon messaging services (SQS and SNS)** and Amazon Kinesis services.
* Developed environments of different applications on **AWS** by provisioning on **EC2 instances** using **Docker**, **Bash** and **Terraform**.
* Deployed micro-components and microserviceson cloud platform **AWS** using an automated process through services like **Lambda, EC2, S3, Code Deploy, Code Pipeline, VPCs, Subnets** and **Security Groups**.
* Experience in using build/deploy tools such as **Jenkins, SRE, Docker, and OpenShift** for Continuous Integration & Deployment (**CI/CD**) for Microservices.

**Responsibilities**:

* Upgrading the spring boot to 2.3.4 for our legacy applications and validating the configurations to be able to work on Kubernetes cluster.
* Creating the **Helm** charts and templates to package Environment specific configurations.
* Creating **Ansible** Playbooks and Roles which will be used to create AMI’s through packer.
* Working on automation of Jenkins OnDemand pipelines.
* Worked on Creating Different **Kubernetes** (EKS)Resources such as Secrets, Deployments and Services.
* Managing multiple workloads and Clusters using third party tools for different Environments.
* Creating Bitbucket pipelines and scripts to trigger the pipelines for workloads.
* Working on Containerizing the Java based applications to be deployed in to EKS.
* Building the AWS infrastructure like EKS, RDS, **IAM**, **EC2** using tools like boto3, terraform.
* Creating IAM Inline policies to meet the application specific requirements.
* Created **Ant** build file to build the application and deployed on Web Sphere Application Server.
* Used **AWS Elastic Beanstalk** service for deploying various infrastructures which orchestrates various AWS services. Used **AWS data pipeline** service for moving data between AWS compute and storage services and created complex data processing fault tolerant and repeatable workloads.
* Used **Amazon Elastic search service** for full text search and application monitoring.
* Used **Amazon SQS** queuing service for reliable communication among distributed software components and micro services and used **Amazon SNS** push notification service for sending individual messages to mobile device users, email recipients and to distributed users.
* Used **NoSQL databases** like **Couch DB** handle to large volumes of data flow.
* Used the **Couch DB atlas** a cloud hosted database service for managed backups in point in time recovery and one click automated scaling and built-in security
* Integrated Apache Kafka with **Elastic search** using Kafka Elastic search Connector to stream all messages from different partitions and topics into Elastic search for search and Analysis purpose.
* Implemented and rolled out proof of concepts for logging management (ELK, Log entries), writing chef code to deploy these solutions, mocking up dashboards and prototyping example queries of high-value searches.
* Setup and worked on private **VPC** and used **SDN** technology.

**Environment:** AWS, Helm, Terraform, Bitbucket, Jenkins, Packer, Linux, WebSphere, SDN, Mongo DB, Apache SOLRCRUD, PL/SQL, JDBC,Maven, Docker, JBOSS, Apache Hadoop, Apache CXF, Docker, Amazon Elastic search, Mockito framework (JUNIT), Agile, Adobe Flex.

**Cloud Engineer** March 2020 – July 2021

**Ford** -Dearborn, MI

**Key Contributions:**

* Architecting the Migration Process of workloads from On-prem to AWS Cloud.
* Implemented testing environment for **Kubernetes** and administrated the **Kubernetes Clusters**.
* Deployed the   Zero down Deployment using **Kubernetes** Orchestration Service application.
* Worked closely with the development team to integrate continuous integration and deployment practices.

**Responsibilities:**

* Creating and maintaining secure **AWS** cloud-based app/data hosting solutions
* Creating and maintaining storage services such as **S3**, **RDS**, **Redis** databases and enabling lifecycle policies.
* Monitor the health of Amazon **EC2** instances and other AWS services and alert set ups using **CloudWatch**.
* Working on Lambda function creation, AWS CLI, Bash Scripting, Python scripting.
* Worked on creating Jenkins freestyle projects in Jenkins Pipelines and automate **CI/CD** process.
* Actively Worked on Building and Importing Complex Infrastructure into modules using Terraform.
* Worked with **Terraform** key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation.
* Creating and Managing AWS resources using boto3.
* Working with cloud native CICD tools AWS Code Commit, Code Build, Code Deploy, Code Pipeline.
* Deploying and Managing Microservices in multi-cloud Environment using Kubernetes and Helm charts.
* Design and Maintain cloud deployment strategies like Blue/Green with SCMs such as GitHub, bitbucket.
* Working on EKS Clusters and Other AWS Infrastructure Automation and Provision with **CloudFormation**, Terraform, **Ansible**, Prometheus and **Grafana**.
* Worked on Containerizing Python and Java Based web applications using Code deploy, Code build, Code pipeline, Docker and Orchestration tools like **Kubernetes** etc.
* Support JIRA administration, including creation and management of custom, Projects/workflows, custom fields, dashboards, and reports configurations.
* Install, manage and administer Jira add-ons, plugins, and extensions.
* Design and Implementation of Istio to monitor service behavior and to generate metrics for all service traffic within the mesh, overall volume of traffic and error rates within traffic.
* Worked on **Blue/green deployment** strategy by creating new applications which are identical to the existing production environment using **CloudFormation** templates & **Route53** weighted record sets to redirect traffic from the old environment to the new environment via **DNS**.
* Worked on the possibilities and different ways of Locking down different Terraform Module Versions.
* Installed, Configured and Managed **Docker** Containers, Docker Images for web servers and Applications servers such as Apache Tomcat using Docker and Integrated with **Amazon MySQL RDS** database.
* Scripted automation for snapshots of existing Elastic Block Storage (EBS) volumes for backups and restored these snapshots to other EC2 Instances including resizing the capacity of EBS Volumes.
* Deployed **MySQL RDS** Database in Multi Availability Zones for High Availability and created Read replicas of primary DB.
* Pipelined Application Logs from App servers to Elasticsearch (**ELK** Stack) through Log stash Built Dashboards for App Metrics using **Kibana** (ELK Stack).
* KMS Implementation for encryption of volumes And Databases
* Deployed a multitude application using the **AWS stack** (Including **EC2, MongoDB, Docker, Kubernetes Orchestration container (EKS)** focusing on high-availability, fault tolerance, and auto-scaling and Load Balancing).
* We hosted all our **micro services** in **AWS cloud** infrastructure using **Jenkins CI/CD pipelines**.
* Used **Grafana** to build monitoring and trace / track dashboards by using the data metrics provided by **Splunk** and **MongoDB**.

**Environments:**Linux, Kubernetes, Docker, AWS, EC2, Jenkins, Splunk, Grafana,Prometheus, VMWare, Terraform, Shell scripting, Python, Java, Istio, Jenkins, Redis, Microservices.

**DevOps engineer** Jan 2018–Feb 2020

**Apple Inc-** Sunnyvale, CA

**Key Contributions:**

* Automated the deployment process using bash scripts, improving efficiency, and reducing errors.
* Automated testing, building, and deployment of code using Jenkins pipelines and Docker containers.
* Implemented continuous integration and continuous delivery (CI/CD) to increase the speed and reliability of releases.
* Monitored and maintained infrastructure, ensuring high availability and quick resolution of issues.
* Conducted performance tuning and capacity planning to ensure that systems can scale to meet demand.

**Responsibilities:**

* Creating servers, **AMIs**, storage blocks in S3, taking snapshots, **VPCs**, subnets, load balancing and auto-scaling in Assigning and implementing fully automated server build, management, monitoring, and deployment solutions spanning multiple platforms, tools Redis and Elastic Search clusters and technologies including Jenkins **Nodes/Agents**, **Chef**, **SSH**, Amazon EC2 and packaging, deployment, and testing.
* Installation and configuration of Git, merging code from develop branch to master branch and make it ready for deployment.
* Pushing Code from Git to nexus make available for release through automation script using Jenkins.
* Knowledge on GIT and **Jenkins** Continuous Integration of Server-Installation, Configuration, Design and Administration, and integrating these tools with other systems.
* Installation and upgrade of Ops-code Chef Server and documenting steps.
* Installation and upgrade of Chef Client and Make sure servers are getting converge with chef- server.
* Creating of Organization, Redis and Elastic Search design and implementation, Environment, and users in **Chef Server**.
* Worked on the cloud automation framework namely CHEF, the included automation of certain software installation processes in the form of Ruby code.
* Provided high availability for IaaS VMs and PaaS role instances for access from other services in the AWS Load Balancer.
* Exclusively worked on **windows & Linux AMI** for hardening.
* Design and Implement WCF services layer hosted on Windows Azure. This layer is the middle tier between SQL Azure and SharePoint online external content.
* Handled cloud administration tools and management frameworks.
* Configured Cloud watch alerts.
* Configured Yum at Server / client side for packet management.
* Deployed and monitored salable infrastructure on Amazon web services (AWS) & configuration management
* Launching and configuring of Amazon EC2 (AWS) Cloud Servers using AMI's (**Linux/Ubuntu**) and configuring the servers for specified applications using Jenkins.
* Setup and launch Amazon Linux and RHEL and Windows ec2 instances, network interface with Elastic IP's.
* Hands-on experience in **Splunk Administration**.
* Involved in Implementing Searches with Job Scheduling and Created HTML dashboards with third party java scripts and css to create beautiful visualizations in **Splunk.**
* Created many of the proof-of-concept dashboards for IT operations, and service owners which are used to monitor application and server health.
* Optimized the search performance of **Splunk** queries and reduced the time for loading the dashboards.
* Actively involved in monitoring **server performance, network traffic** to reduce performance bottlenecks.
* Experienced in Implementation, configuration, administration of **AppDynamics** monitoring tool.
* Worked on **AppDynamics** POC and sent to production successfully.
* Created AMI images of the critical ec2 instance as backup using AWS CLI and GUI.
* Defined **AWS Security Groups** which acted as virtual firewalls that controlled the traffic allowed to reach one or more AWS EC2 instances.
* Worked on Docker files to build and push images into test Docker repository with test configuration to validate an image. Created Docker containers and **Docker** consoles for managing the application lifecycle.

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**Environments:**AWS Cloud, Ansible, AWX, Jira, confluence, Maven, Jenkins, Git, GitHub, Unix/Linux, Python Scripting, Apache-Tomcat, Oracle11g, Putty, Shell Script, Nginx, SQL, Ubuntu, Splunk, AppDynamics, RedHat, Windows 2012/2016 Server.

**WebSphere Administrator** Jan2016 – Dec 2017

**Fannie Mae-** Dallas, TX

**Responsibilities:**

* Working on infrastructure with **Docker** containerization (Docker Windows Container).
* Worked on a creation of custom **Docker** container images, Docker composefiles, tagging and pushing the images.
* Hands-on experience in working with windows IIS 2k16 server.
* Experience deploying Windows MSI/Drivers/Business-applications to Windows hosted applications.
* Designed Continues Delivery platform using **Jenkins,, Bit Bucket, Artifactory and Ansible tower.**
* Created Ansible Playbooks to deploy applications as part of continuous delivery pipeline.
* Working closely with Microsoft support team to resolve container related issues.
* Writing BASH, Shell, Python and **PowerShell** Scripts **Argo CD** to automate complex tasks.
* Working on WebSphere Application server 8.5 Administration, Configuration And deployment of applications.
* Experience in creating self-signed certificates and installing **SSL** certificates and Web Sphere plugin configuration.
* Deployment**,** Installation, and maintenance of several **Enterprise Applications** in a **clustered environment** with **fail-over support** with the interaction of the Developers
* Used **Docker Container** to address every application across the hybrid cloud and Docker   for better collaboration and innovation.
* Worked with Jenkins Continuous Integration and Continuous Deployment **(CI/CD).**

**Environments:**WebSphere, Apache Maven, Junit, HTML, SVN, PowerShell, SSL, Jenkins, Docker, Ansible, Bitbucket.

**Value Labs**  July 2014 – May 2015

**Linux Admin (Intern)** -Hyderabad, India

**Key Contributions:**

* Involved in the full life cycle implementation of the project including analysis, design, and development.
* Worked with **Red Hat Package Manager** (RPM) and **YUM**.
* Deployed and installed New Servers for various Applications Windows/Linux.
* Automated in the form of tools and Scripts to reduce IT Work bare minimum.
* Deployed Applications in WebSphere Application Server.
* Creating, maintaining of user accounts locally and administration of local and global groups on **Red Hat Linux** platforms.
* Installed and configured **Red Hat Enterprise Linux** 5.x, **Sun Solaris** 9, 10 and **IBM AIX** 5L 5.x operating systems on large, distributed environment.
* Provided administration and support for Servers running on RedHat Enterprise Linux 4.x/5.x and Sun Solaris 9, 10 operating systems.
* LAN installing, configuring, and troubleshooting. Supports desktop hardware, software, and applications.
* Managed **Windows/Linux** Hosted servers across all locations with respect to Applications/DB.
* Administered Windows/Linux Active Directory, Proxy Server, Web Server, Log server, Repository and MySQL server.
* Scheduled and ensured proper Backups of all Application Databases.
* Hands-on experience with design and implementation of big-data-processing.

**Environments:**Linux, Unix, Windows, Java/J2EE, RPMs, WAS, MS-IIS, Flash, My SQL XML, JDBC, Java Script, HTML, Oracle, Windows NT, Sun Solaris, and WebSphere application server.

***Education***

**Bachelor’s :**Computer Science Engineering in **CMR college CE,** Hyderabad**,** India. 2015

**Master’s** : Computer Information Systems in **University of Central Missouri**, MO USA 2016