**Venkat**

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**Professional Summary**

* **Overall,** **6+** years of experience in IT Industry with ability to accomplish all aspects of the **System Administration** working on **Red Hat Enterprise Linux (RHEL), Cent OS, Ubuntu, AWS, CI/CD, Azure, DevOps, VM Ware,** and **Build/Release management**.
* Experience with **Kernel Tuning, Application Tuning** and **Standard Administration**, **Troubleshooting, Security, Backup, Disaster Recovery, Performance Monitoring and Fine-tuning** on UNIX & LINUX Systems.
* Experienced installing, upgrading and configuring **RedHat Servers** using **Kickstart** and **Solaris Serve**r using Jumpstart and customizing the Kickstart profiles and Jumpstart scripts to automate the installation of various servers.
* Solid knowledge of **Linux kernel internals** and some experience **building customized kernels**. Familiar with **Red Hat Network** and **Red Hat Network Satellite** for operating system upgrade or maintenance.
* Expertise in configuring and administering**,** **Mail Servers** and **Web Servers** like **Apache HTTP** & **Tomcat** in heterogeneous environments and working with **TCP/IP, DNS, DHCP**, **NFS**, **NIS, SAMBA, SSH, SSL, SFTP, SMTP, SNMP, SAN, NAS**.
* Experience in administering **VMware ESX**, **Deploying** and **Managing** **VMware vCenter** and large scaled virtual environments and supporting **ESX cluster** environments managing **VM’s** running Linux and Windows environments.
* AWS Cloud IaaS platform with features **EC2, VPC, ELB, Auto-Scaling, Security Groups, Route53, IAM, EBS, AMI, RDS, S3, SNS, SQS, CloudWatch, CloudFormation, Amazon S3 (storage).** Configured **Elastic IP & Elastic Storage**.
* Experience in Amazon **EC2** in setting up instances, worked closely with infrastructure teams to troubleshoot complex issues and setting up **security groups** and creating life cycle policies in **AWS S3** for backups to **Glacier.**
* Administered **Jenkins** for **Continuous Integration** and to automate most of the build related tasks, configured various **Jenkins** jobs in **Jenkins** for deployment of **Java** based applications and running test suites.
* Provide SME in all areas of **Cloud** (IaaS, PaaS, SaaS) to existing and perspective clients on multiple cloud platforms **vSphere**, **Cloud Stack**, **Azure**, **AWS** and various PaaS platforms such as **Cloud** **Foundry**, **OpenShift**
* Expertise on version control tools like **Subversion, Git** and utilized source code administration customer apparatuses like **GitHub, Git GUI** in **branching, tagging and maintaining** the version across the environments using **SCM** tools like **GIT**, Subversion (**SVN**) and **TFS** on Linux and windows platforms.
* Experienced in installing, configuring, modifying, testing and deploying applications on **Apache Webserver, Nginx and Application** servers such as **Tomcat, JBoss. F**unctional usage and deployment of applications in **WebLogic, WebSphere** and **Apache Tomcat** Server.
* Strong experience in deploying the code through Application, Static and Dynamic on servers **Apache Tomcat, Apache, NGINX, Windows IIS,** **Web Sphere**, **Web Logic.**
* Efficient experience using build tools like **MAVEN and ANT** for the building of deployable artifacts such as **war, jar& ear** from source code.
* Integration of **Automated Build** with **Deployment Pipeline**. Currently installed **Chef Server** and clients to pick up the Build from **Jenkins repository** and deploy in target environments **(Integration, QA, and Production**).
* Broad experience in **Bash** scripting on Linux. Strong knowledge on Linux internals and experience with Bug tracking tool like **JIRA, Bugzilla and Remedy**.
* Experience with setting up **Chef** Infra, **bootstrapping nodes**, creating and uploading **Chef** Recipes, **Chef** Node convergence in **Chef SCM** and Highly involved in Configuring, monitoring and multi-platform servers by defining **Chef** Server from workstation to manage and configure **Chef** Nodes.
* Experience in setting up **Puppet** master, **Puppet** agents for managing enterprise policies, configurations and on creation of **Puppet** manifest files to install **Tomcat** instances to manage configuration files for multiple applications.
* Worked with **Docker** and **Vagrant** for different infrastructure setup and testing of code. Experience on **Docker** hub, creating **Docker** images and handling many images primarily middleware installations and domain configurations.
* Knowledge on Designing and implementing container orchestration systems with **Docker Swarm** and **Kubernetes and** Experience to manage local deployments in **Kubernetes**, creating local cluster and **deploying application containers**.

**TECHNICAL SKILLS**

**Operating Systems       :** Windows, UNIX,LINUX, CentOS ,RHEL,SOLARIS,SUSE, Ubuntu

**Source control tools       :** Subversion, Clear case, GIT and Perforce

**Build tools                         :** ANT, Maven, Gradle, Bamboo

**CI tools                               :** Hudson, Jenkins and Build Forge, Cruise control

**Deployment tools           :** Chef, Puppet, Ansible

**Containerization/Virtualization :** Docker, Packer, VMware, vSphere

**Orchestration Platforms :** Kubernetes

**Repositories** : Nexus, Artifactory

**Languages                           :** C, C++, Perl scripting, Shell scripting, HTML, Python, Ruby

**Tracking tools                  :** Jira, Remedy, Clear Quest

**Web servers                      :** WebLogic, WebSphere, Apache Tomcat, JBOSS, Nginx

**Monitoring tools :** Nagios, Splunk, New Relic, logic monitor

**Databases                        :** Oracle, SQL Server, MYSQL, DB2, MONGODB

**Cloud Platform :** AWS, Azure

**PROFESSIONAL EXPERIENCE**

**Alcon – Dallas Mar 2019 -Present**

**AWS/ Middleware Engineer**

**Responsibilities:**

* Build and maintained **Amazon Service Catalog** product and migrated more than 60+ applications into **AWS** Environment form on-premises environments.
* AWS service catalog service deployed, maintained, and configured websites in **apache, IIS Server** based environment in **Sandbox, Dev, Qa, Prod.**
* Configured and maintained automated pipelines in **AWS Code Pipeline** to deploy Docker containers in AWS using ECS services like **CloudFormation, Code Build, Code Deploy.**
* Administered and configured a portfolio for **Linux, IIS Server, RDS, ACM, CDN** products to lunch automated pipelines primarily hosted in AWS Service Catalog Product Service.
* Managed **AWS EC2** instances utilizing **VPC, RDS, Auto Scaling, Service catalog, Code as pipeline, CDN,** Elastic Load Balancing and Glacier for our **Sandbox, Dev, QA,** and Production environments as well as infrastructure servers.
* Used **Cloud Front** to deliver content from AWS edge locations to users, allowing for further reduction of load on front-end servers.
* Configured AWS security groups, **WAF** and Network **ACLs** policies for additional layer of security.
* Worked on **ACM c**ertificated Manager service to lunch **SSL**, Origin certificates in amazon environment.
* Built and managed polices **S3 Bucket** in the AWS, where also used to store files like source code, database files, backup which are required to serve static content for a web application.
* Hosted few static websites on **Amazon S3** and configured and maintained on Amazon S3 bucket for website hosting service.
* Created **CloudWatch** altering service for all the ec2 instances and configured as autoscaling lunch.
* Infra-structure development on AWS using various resources services like **Ec2, S3, RDS, Route53, Cloud Front, Cloud Watch, IAM, VPC, Auto Scaling, Elastic Load Balancers and AMI’s.**
* Launched and configured AWS ECS Cluster service using CloudFormation where running tasks or services that use the EC2 launch type, a cluster is also a grouping of container instances.
* Using **Amazon Elastic container services** running multiple containers on a cluster on same ec2 Instance with preinstalled Docker images to lunch multiple web application.
* Worked on **Amazon ECS Cluster** is a group of **ECS Container** Instances where to handles the logic of scheduling, maintaining, and handling scaling requests to these instances.
* Performed automation tasks on various Docker components like **Docker Hub, Docker Engine, Docker Machine**, Compose and Docker Registry.
* Created Docker images using a Docker file, worked on **Docker container** snapshots, removing images, and managing Docker volumes and Virtualized the servers using the Docker for the **dev-qa-prod** environments needs and configuration automation using Docker containers.
* Container management using **Docker** by writing Docker files and setup the automated build on Docker Hub and installed and configured **Kubernetes**.
* Setting up and configuring Database Server using **AWS RDS** services on Multiple **MySQL, MongoDB & Dynamo DB** Instance with a different environment.
* Experience in analyzing the **IIS logs to** collect information about server events, server performance, and user activity and Configured multiple websites in IIS and installed Plugins to proxy requests to Application server.
* Responsible for ASP.NET application authentication using .**NET Framework, Model View Controller MVC** and IIS security model.
* Created private cloud using **Kubernetes** that support DEV, QA and PROD environments.
* Orchestration of application processes on different environments using **Chef** in cloud (**AWS**) for deployment on multiple platforms.
* Developed **Python** Scripts to manage few services on AWS using **BOTO3.**
* Managed **Kubernetes** charts using **Helm**. Created reproducible builds of the **Kubernetes** applications, managed **Kubernetes** manifest files and managed releases of Helm packages.
* Provide assistance to application management team in **troubleshooting**, deployment, and **monitoring** of applications residing in the **production environment**.
* Expertise on version control tools like Subversion, Git and utilized source code administration customer apparatuses like GitHub, Git GUI in branching, tagging, and maintaining the version across the environments using **SCM tools like GIT, Subversion (SVN) and TFS on Linux and windows platforms.**
* Efficient experience using build tools like **MAVEN and ANT** for the building of deployable artifacts such as war, jar& ear from source code.
* Worked with **Docker and Vagrant** for different infrastructure setup and testing of code. Experience on Docker hub, creating Docker images and handling many images primarily middleware installations and domain configurations.

**CompuCom INC – Dallas Apr 2017- Feb 2019**

**Devops Engineer**

**Responsibilities:**

* Administered and managed **Red Hat Linux and** **Design, deploy, maintain Ubuntu** server environments primarily hosted in **AWS** using AWS resources like **IAM** for maintaining the **user accounts, security groups.**
* Maintained DNS records using **Route53**. Used Amazon **Route53** to manage DNS zones and give **public DNS names to Elastic load balancers (ELB) IP's.**
* Create and maintain highly scalable and **fault tolerant** multi-tier **AWS** environments spanning across multiple availability zones using **Terraform** and **CloudFormation Template.**
* Created **S3 buckets for EC2** instances to store all the content including HTML pages, images, CSS files and JavaScript files.
* Build servers using **AWS, importing volumes**, launching **EC2, RDS, creating Security groups**, **Auto-Scaling, Load balancers** (ELBs) in the defined **virtual private connection**.
* Configuration of secure-cloud (**CloudTrail, AWS Configuration**), Cloud-security Technologies (**VPC, Security Groups**, etc.) and Cloud-permission systems (**IAM**).
* Created alarms and trigger points in **Cloud Watch** based on thresholds and **monitored logs via metric filters**.
* Designed **AWS Cloud Formation templates** to create custom sized **VPC, subnets, NAT** to ensure successful deployment of Web applications and database templates.
* Implemented a **GIT mirror for SVN repository**, which enables users to use both **GIT and SVN.**
* Worked with networking teams in configuring **AWS** Direct Connect to establish dedicated connection to datacenters and **AWS** Cloud. Configured and managed **AWS** Glacier, to move old data to archives based on the retention policy of databases/applications (**AWS** Glacier Vaults).
* Implemented Data warehouse solutions in **AWS** Redshift, worked on various projects to migrate data from on premise databases to **AWS** Redshift, **RDS** and **S3**.
* Configured **Jenkins with maven** build tool in generating **war/ear** files and archived them and Responsible for **maintaining backup** and **versioning of war/ear** file using **nexus repository**.
* Integrated **Git, Jenkins and maven** in accomplishing continuous integration and configured **Jenkins with Poll SCM** build trigger.
* Creating **Jenkins jobs** and distributing **load on Jenkins server** by **configuring Jenkins nodes** which will enable parallel builds and Managing **Jenkins artifacts in Nexus repository** and versioning the artifacts with time stamp.
* Creating a fully Automated Build and Deployment Platform and coordinating code builds promotions and orchestrated deployments using **Jenkins** and **GitHub** and created the branches in **Git** to implement the parallel development process.
* Using **Jenkins as continuous integration** tool creating new jobs, managing required **plug-ins, configuring** the jobs selecting required **source code management tool**, **build trigger, build system** and post **build actions, scheduled automatic builds**, notifying **the build reports** etc.
* Deployed **Single tier** web applications and tested with **Elastic Beanstalk** and services with **Java, PHP**, **Node.js** on servers such as **Tomcat, Nginx.**
* Experience in managing **Ansible Playbooks with Ansible roles**. Used file module in **Ansible playbook** to copy and remove files on remote systems and Created **inventory in Ansible for automating** the **continuous deployment**.
* Communication with team members for both **Ansible Core and Ansible Tower** teams to clarify requirements and overcome obstacles.
* Maintained and managed **Ansible Playbooks responsible** for **deploying Framework and other cloud tools**. Worked **on Git** Flow for **production Release**.
* Performed automation tasks on various **Docker** components like **Docker Hub**, **Docker Engine, Docker Machine**, Compose and **Docker Registry**.
* Created **Docker images using a Docker file**, worked on **Docker container snapshots**, removing images and managing **Docker volumes**.
* Virtualized the servers using the **Docker for the test environments** **and dev-environments needs** and configuration automation using **Docker containers**.
* Managed **Docker orchestration and Docker containerization** using **Kubernetes.**
* Highly involved in Configuring, monitoring and multi-platform servers by defining **Chef server from workstation** to manage and configure **Chef nodes**.
* Development of **Chef recipes using Ruby Script** through **Knife command-line** tool to create **Chef cookbooks** to manage systems configuration.
* Experience in setting up the **Chef repo, Chef work** stations and **Chef nodes** and Involved in **chef-infra maintenance** including **backup/security fix on Chef Server.**
* Extensively involved in **infrastructure as code**, execution plans, resource graph and change **automation using Terraform**.
* Managed **AWS infrastructure as code using Terraform** and wrote new plugins to support new functionality in **Terraform**.
* Generated scripts in **Maven, Perl & Bash Shell** for build activities in **QA, Staging and Production** environments and Able to create scripts for system administration using languages such as **BASH and Python**.
* Involved in Scrum meetings, product backlog and other scrum activities in collaboration with the team.

**Nokia – Dallas Jan 2016 – Mar 2017**

**Middleware Devops Engineer**

**Responsibilities:**

* Experience in writing **Cloud Formation Template to launch multiple EC2** Instances and adding **Auto Scaling policy and IAM ROLES** to maintaining the **servers without failure**.
* Worked on **AWS** Identity and Access Management (**IAM**) components including **user, groups, roles, policies and password policies** and provide the same to end user and Used **Cloud watch** logs to move application logs to **S3** and **create alarms** based on a few exceptions raised by applications.
* Migrated the current Linux environment to **AWS/RHEL Linux** environment and used **auto scaling feature** and Involved in Remediation and **patching of Unix/Linux Servers**.
* Experience in **Amazon Web Services (AWS) provisioning** and **AWS** administrations like **EC2**, **Elastic Load-balancers, Elastic Container Service (**Docker Containers**), S3, Cloud Front,** Elastic File system**, RDS, DynamoDB, VPC, Route53, Cloud Watch, Cloud Trail, Cloud Formation, IAM, Elasticsearch**.
* Implementing and setting up **AWS security groups** for **AWS Instances on AWS Environment** and defined AWS Security Groups which acted as virtual **firewalls** that controlled the traffic allowed to reach one or more **AWS EC2 instances**.
* Responsible for **Continuous Integration (CI) and Continuous Delivery (CD**) process implementation using **Jenkins** along with **Shell scripts to automate routine jobs**.
* Worked in Setting Automation Environment for **CI&CD Pipeline like Jenkins** Configurations and wrote **Jenkins file** by using **Groovy Script for continuous integration.**
* Working with **Orchestration tool like Jenkins** and **automation of build and deployment processes**, **continuous integration** and application configuration management.
* Configured and maintained **Jenkins** for **Continuous Integration and end to end automation** of all build and deployments and have good knowledge on XL deploy and **Code Deploy as release automation solution.**
* Deployed the **Java EE** Enterprise Archive (**EAR**) on the **WebSphere** Application Server.
* Designed and implemented **continuous integration** systems using **Jenkins** by creating **Python** and **Perl** scripts and **automated the build and deploy processes** using **Jenkins** to move from one environment to another environment.
* End-to-end design, setup, **integration and maintenance** of **CI/CD** pipeline from source-control to production and Setting up constant **security checks as part** of **CI-CD** pipeline and monitoring to prevent or respond faster to any events that might occur and Configured and supported **CI**test runs, collect metrics on test automation execution
* Wrote **Chef Cookbook** to install **Tomcat Server** and deploying web application on **Tomcat server from nexus artifactor**y to maintain the **continuous Deployment**.
* Deployed multiple versions of **Java** applications on **Web Logic** and **Apache Tomcat** Application Servers.
* Worked with **Chef platform as an automation tool** to ensure compliance and ongoing operation of large estates.
* Experience in creating **Docker Containers** leveraging existing **Linux Containers** and **AMI's** in addition to creating **Docker Containers from scratch.**
* Used **AWS instances** as a node in both windows and **Linux platforms** for testing the **cookbook locally** by using the test kitchen.
* Worked with **chef compliance** for compliance **testing and chef analytics** for reporting the statistics. Performing **Migrations** of legacy **workloads to transform** and shape them into dynamic, resilient and scalable platforms and helping clients to make the most of the cloud.
* Having Extensive knowledge on the **ansible and writing playbook by using the YAML Script.**
* Worked with **GIT** to store the code and integrated it to **Ansible** to deploy the playbook Experience in scheduling and jobs using **Ansible**.
* Implemented **Ansible as configuration management**/ Orchestration tool and managed **Ansible Playbooks with Ansible roles**, group variables and **inventory files**.
* Used file module in **Ansible playbook** to copy and remove files on remote systems
* Manage AWS EC2 instances utilizing **Auto Scaling, Elastic Load Balancing** and **Glacier** for our **QA and UAT** environments as well as infrastructure servers for **GIT and Ansible.**
* Used **Ansible tower to manage Web Applications**, **Configuration Files, Data Base, Commands**, User **Mount Points**, and Packages and used **Ansible to assist** in **building automation policies**.
* Created **Docker** images using **Docker** file and worked on **Docker** container **snapshots, removing images** and managing **Docker** volumes. Involved in building **PaaS** with **Docker** and deployed various applications through **Docker** containers.
* Created **docker containers using docker images** to test the application.
* Created analytical matrices reports, dash boards for release services based on **JIRA** tickets, reach continuous delivery, and built clouds with AWS.

**Environment:** Jenkins, Cloud formation, Confluence, RHEL, Cloud watch, Chef, Docker, JIRA, Apache Tomcat, Maven, EC2, Artifactory, Git, Aws Lambda, Ruby, Ansible, shell, Amazon VPC, Bash, bitbucket.

**Franklin Templeton – Hyderabad Jun 2014-Jul 2015**

**Linux System Engineer**

**Responsibilities:**

* Administered, maintained **Red Hat** Troubleshooting Hardware, Operating **System Application & Network problems** and performance issues Deployed latest patches for, Linux and Application servers, Performed **Red Hat Linux Kernel Tuning.**
* Implementations of **automatic secure SSH Login**, **User and Group administration**, troubleshooting various issues on **SSH, FTP, Telnet** and Backup and Restore Problems Creation of **LVMs on SAN** using Linux utilities
* Performed the administration of the **Domain Name Server** and configuration of the Database Files. Configured and maintained **Iptables, Firewalls, Syslog** on Linux servers.
* Install and configure **DHCP, DNS, web (Apache, IIS), mail (SMTP, IMAP, POP3),** and file servers on Linux servers. Implementing and configuring network services such as **HTTP, DHCP, and TFTP.**
* Created new **file systems**, **monitoring disk usage,** checking and **backup of log files** administration and monitoring the disk-based file system and adding **SAN** and creating **physical volumes, volume groups and logical volumes**.
* Issues related to **NFS, NIS, and LVM**, Grub corruption, configuration & maintenance of **RAID (level 0, 1, and 5) and** Performed **security monitoring** tests to identify intrusions.
* Worked on Jobs using **Cronjobs scheduling** and using bash Scripts to accomplish the task on multiple servers. Performance tuning of **Virtual Memory**, **CPU**, **system usage**.
* Performed **physical to virtual** (P2V) migrations for physical servers utilizing VMware Converter and Installing, **configuring and troubleshooting VMware**.
* Created clones and **templates of Virtual Machines** and worked on Troubleshot Virtual Networks and **vSwitches.**
* Install new and rebuild existing **Servers and configure hardware, peripherals, services, settings, directories, storage** and accordance with standards and project/operational requirements. Installed, **Configured and Maintained infrastructure** systems such as ticketing systems, data center environment and monitoring equipment.
* Administrating **DNS, DHCP servers**. Created and managed user and group accounts in User Manager, Responsible for **Active directory, GPO, Domain users**, Administrating users and groups and given appropriate permissions and privilege to access our **LAN** and Domain environment.
* Responsible for developing and planning the implementation of **technical downtime and recovery processes** and the **technical setup of downtime systems.**
* Wrote bash **Shell Scripts** for getting information about various **Linux** servers. Resolved **system errors and crashes, disk space problems, huge file sizes** and **file system** full errors.

**Education Details**

Masters in CIS Form New England College 2017

Bachelor’s in Computer Science from JNTU Hyderabad 2013