C:\Users\rohit\AppData\Local\Microsoft\Windows\INetCache\Content.Word\AWS_Certified_Logo_294x230_Color.png**Sravan Kumar**

**Sr.AWS/DevOps Engineer**

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**PROFESSIONAL SUMMARY:**

As an **IT professional** with 7+ years of experience mainly focused on providing infrastructure automation services within private and public cloud and also including experience in services based on continuous delivery and build with cloud services like **AWS** development in **Windows** and **Linux** systems.

* Experienced in **AWS Cloud** platform and its features which includes **EC2, S3, VPC, EBS, ELB, IAM, AMI, SNS, RDS, Cloud Watch, Auto Scaling, Lambda**.
* Responsible for creating documentation of the **Terraform infrastructure** in Confluence, and also used **Terraform** to manage the **AWS** and **othercloudinfrastructure** and managed **servers** using configuration management tools like **Chef, Ansible** or **Puppet**.
* Experienced in creating snapshots and **Amazon machine images (AMI)** of the instances for backup by creating clone instances, and also created **Lambda** function to automate snapshot back up on **AWS** and set up the scheduled backup.
* Experienced in creating DevOps strategy in a various distribution of LINUX using DevOps tools suites like **SVN, GIT, GITHUB, BITBUCKET,ANT, Maven, Jenkins,Chef, Ansible, Puppet, Docker, Docker Swarm, Kubernetes, Nexus Artifactory, Nagios** and **Splunk** in traditional environments along with the deployment tools.
* Experienced in branching, tagging and maintaining version across the environment using SCM tools like **Subversion, GIT and Bit Bucket** and primarily used script to write **GIT** applications and worked to manage source code.
* Used **Jenkins** as Code Deploy plugin to deploy to AWS and also worked on other tools like **Bamboo, Hudson** for **continuous integration** and for all end to end automation functions with all build and deployments.
* Built **Jenkins** jobs to create AWS Infrastructure from **GitHub** repositories containing **Terraform** code and ability to work closely with teams, in order to ensure high quality, timely delivery of **builds & releases**.
* Experienced in using Build Automation scripting like **MAVEN, ANT** and **MSBUILD** as build tools for building of deployable artifacts **(JAR, WAR)** from source code also experienced in authoring **pom.xml** files, perform releases with **Maven** release plugin, and manage artifacts in Sonatype **NEXUS** repository.
* Written and developed **Chef Cookbooks** and recipes from scratch for custom installation of application.
* Expertise with **Ansible Playbooks** for zero-downtime installation, upgrade, downgrade, and uninstall processes (**MongoDB, Cassandra, Redis, and MySQL**).
* Experience with container-based deployments using **Docker** working with **Docker images, Docker Hub** and Docker registries and have knowledge on containerization orchestration using Kubernetes.
* Experienced on container management using **Kubernetes** also managed **Kubernetes** charts using **Helm** and created reproducible builds of the **Kubernetes** applications, managed Kubernetes manifest files.
* Experienced in working with automation for deployment/ configuration of Application server like **JBOSS, Tomcat, WebLogic and IBM WebSphere** and webservers like **Apache and Nginx.**
* Moved several web services and related applications to uDeploy and maintained them across 5 environments **Dev, QA, UAT, PreProd** and **Prod.**
* Installed, Configured, Managed Monitoring Tools such as **Splunk, Nagios** for Resource Monitoring/Network Monitoring/Log Trace Monitoring.
* Experience in automation deployment of Stateful application like Kafka, Zookeeper and Gray log.
* Experienced in writing **Bash/Shell** scripts for automating Back-ups and setting up **CRON** Jobs   
  and involved in utility developments using Python**, Linux Shell** and **Perl scripting, UNIX**, Windows, build and release engineering principles
* Involved in setting up **JIRA** as defect tracking system and configured various workflows, customizations and plugins for the **JIRA** bug/issue tracker.
* Exposed to all aspects of **Software Development Life Cycle** such as Analysis, Planning, Developing, Testing and implementing and Post-production analysis of the projects andalso created and maintained continuous build and continuous integration environments in **SCRUM** and **Agile** methodologies.
* Experienced in **Agile** Methodologies, **Scrum** stories and **sprints** experience in a **Python** based environment, along with data analytics, data wrangling and Excel data extracts and solved repetitive admin tasks.

**TECHNICAL SKILLS:**

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| Operating systems | Linux (Red Hat 4.x, 5.x, 6.x,7.x), Windows, UNIX - Sun Solaris v 9, 10, Ubuntu 12.x,13.x,14.x,15.x |
| Programming/Scripting | Shell scripting, Unix Bourne shell, Korn shell, HTML, PERL, POWERSHELL, Python, Groovy. |
| Web Servers/ Application Servers | Apache2.0/2.2/2.4, Apache Tomcat5.5/6.0/7.0, WEBLOGIC, WEBSPHERE, Nginx, JBOSS, My SQL. |
| Cloud Infrastructure | AWS (EC2, RDS, ELB, VPC, Security groups, Auto Scaling, IAM, EBS, Creating AMI’s, SNS, SQS, Cloud Watch, VPC, Route53, Lambda,S3, Cloud Formation, Direct Connect, API Gateway, Cloud Front, Storage Gateway, Elastic BeanStalk, EFS) |
| Tools | CHEF, PUPPET, HUDSON/JENKINS, MAVEN, CVS, SVN, GIT, GITHUB, BITBUCKET, SVN, NEXUS, NAGIOS, VAGRANT, DOCKER, ANSIBLE, SPLUNK, ZOOKEEPER, KAFKA |
| Databases | Oracle 9i/10g,11g, DB2, SQL Server, Mongo DB. |

**WORK EXPERIENCE:**

**Vanguard, Charlotte, NC July 2017– Till Date**

**Sr AWS/DevOps Engineer**

**Responsibilities:**

* Highly skilled in designing and deploying a multitude application utilizing almost all the main services of the **AWS** stack like **EC2, S3, RDS, VPC, IAM, ELB, Cloud watch, Route 53, Lambda and Cloud Formation**. With focus on high availability, fault tolerance environment.
* Setup and build **AWS** infrastructure various resources, **VPC EC2, RDB, S3, IAM, EBS, Security Group, Auto Scaling, SES, SNS** and **RDS** in **Cloud Formation JSON templates**.
* Involved in developing custom images on Cloud using **AWS images** and on **ESX** using Templates and involved in building physical servers using **Kickstart PXE Boot** and **Jumpstart**.
* Configured **Elastic Load Balancers** with **EC2 Auto Scaling groups** and created **monitors**, **alarms** and notifications for **EC2 hosts using Cloud Watch.**
* Involved in writing **Java API** for Amazon Lambda to manage some of the **AWS** services.
* Worked on **Terraform** for automating **VPC's**, **ELB's**, **Security Groups**, **SQSqueues**, **S3buckets** and continuing to replace the rest of our infrastructure and also used **Terraform**to manage the **AWS** and other cloud infrastructure.
* Managed servers using **configuration** management products like **Chef** or **Ansible**.
* Created **Python** **Scripts** to Automate **AWS** services which include **webservers**, **ELB**, **Cloudfront Distribution**, **database**, **EC2** and **database security groups**, **S3bucket** and application configuration this **Script** creates **stacks**, **single servers** or joins web servers to stacks.
* Expertise Knowledge on **ELK** architecture, also experienced in **Elasticsearch** which is the search and analytics engine and experience in **Logstash**, which is a **log management tool.**
* Experienced in branching, tagging and maintaining version across the environment using SCM tools like **GIT** and **GITHUB**. And primarily used script to write **GIT** applications and Worked to manage source code.
* Connected continuous integration system with **GIT** version control repository and continually build as the check-in's come from the developer.
* Developed processes, automation for **Jenkins** based software for **build system** and **delivering SW Builds**.
* Experience in designing and implementing **continuous integration** system using **Jenkins** by creating **Groovy scripts** and also configured **Jenkins** to implement nightly builds on daily basis and generated change log that includes changes happened from last 24 hours.
* Built scripts using **MAVEN** build tools in Jenkins to move from one environment to other environments.
* Deployed **J2EE** applications to Application servers in an **Agile** continuous integration environment and also automated the whole process also built scripts using **Maven build** tools in **Jenkins**, Sonar to move from one environment to other environments.
* Designed **Java** multi-threading-based batch job applications for the data load process that was taking a lot of time to process.
* Wrote **Ansible Playbooks** with **Python** and **SSH** as the Wrapper to Manage Configurations of **AWS Nodes** and **Test Playbooks** on AWS instances using Python.Architected and designed Rapid deployment method using **Ansible** to auto **deploy servers** as needed.
* Written **Ansible** playbooks which is the entry point for **Ansible** provisioning, where the automation is defined through tasks using **YAML** format. Run **Ansible** Scripts to provision Dev servers.
* Worked on **Docker container snapshots**, attaching to a running **container**, removing **images**, managing **Directory structures** and **managing containers**.
* Integrated **Docker container orchestration** framework using **Kubernetes** by creating **pods**, **Config Maps** and **deployments**.
* Worked on **Kubernetes** and **Docker images** to provide platform as service on **private** and **public** cloud in **VMware Cloud**.
* Used **Kubernetes** to manage containerized applications using its nodes, ConfigMaps, selector, Services and deployed application containers as Pods.
* Administrating and managing windows servers including **configuration** and **troubleshooting** of **Active Directory, DNS, DHCP, NFS, SAMBA, IIS**.
* Installed and configured **Nagios** as monitoring tool for disk usage, CPU utilization, list of open files etc. and sending alerts to our teams based on the same.
* Worked on Integrated **JIRA** with **subversion** and **Jenkins** to automate the weekly build process. Used **JIRA** workflows to **automate deployment** and **issue tracking**.
* Created Network Stack, Kafka and Zookeeper templates using CloudFormation.
* Configuring Fluentd, Graylog to Kubernetes and Kafka.
* Created Kafka and Zookeeper clusters in in different AWS regions and zones for high availability.
* Created AWS auto-recovery for retaining of EBS and Network interface that are attached to Kafka instance.
* Configured SSL between the Kafka and Zookeeper instances.
* Provided oversight and guidance for the architecture, development for best practices for application hosting, and infrastructure deployment for each application.

**Environment: Elastic load balancer, S3, Cloud watch, IAM, RDS, Storage gateway, Shell Scripting, Puppet, Chef, Bit bucket, Zookeeper, Kafka, Graylog, Jira, Python, Groovy, Tomcat, Apache, Oracle, Jenkins, Ruby, Jira, Maven, Git, Ubuntu, Centos.**

**Caterpillar, Peoria, IL July 2016– June 2017**

**AWS &DevOps Engineer**

**Responsibilities:**

* Worked on **AWS EC2** Instances creation, setting up **VPC**, launching EC2 instances and worked on **Cloud Watcher** for providing high availability of applications and EC2 instances based on the load of applications.
* Extensive use of **AWS CLI** to automate backups of ephemeral data-stores to **S3** buckets, **EBS** and created custom **AMI's** for mission critical production servers as backups.
* Utilized **AWS CLI** to automate backups of ephemeral data-stores to **S3 buckets**, **EBS** and create nightly **AMIs** for mission critical production servers as backups**.**
* Managed network security in cloud using **ElasticLoad balancer, Auto scaling, Security groups, Route53** and **NACLS**.
* Implemented and maintained the monitoring and alerting of production and corporate servers/storage using **CloudWatch**.
* Designed and developed **Shell** scripts also wrote scripts for provision of infrastructure management using **Terraform**.
* Configured AWS **IAM** and Security Group in Public and Private Subnets in **VPC**and also created AWS **Route53** to route traffic between different regions.
* Implemented modules using Core **Java APIs, Java collection, Java 8(Streams), multi-threading**, and **object-oriented** designs.
* Implemented the online application by using Core **Java, JDBC, JSP, Servlets, Web Services, SOAP** and **WSDL**.
* Installed, configured and Administrated of all **UNIX/LINUX** servers, includes the design and selection of relevant hardware to Support the installation/upgrades of **Red Hat Centos, Ubuntu** operating systems.
* Maintenance of source code in **GIT and Bitbucket**and extensive experience in using Version control systems includes **GIT**,**GITHUB**and**Bitbucket**.
* Worked on integrating **GIT**and **Bit Bucket**into the **continuous Integration (CI)** environment along with Anthill-Pro, **Jenkins**.
* Designed and implemented **CI (Continuous Integration)**system configuring **Jenkins servers, Jenkins nodes**, creating required scripts **(Perl & Python),** and creating/configuring VMs (Windows/Linux).
* Built end to end **CI/CD** Pipelines in **Jenkins** to retrieve code, compile applications, perform tests and push build artifacts to **Nexus**.
* Used **Jenkins**, Build forge for **Continuous Integration** and deployment into Tomcat Application Server.
* Converted and automated builds using **Maven** for scheduled automated nightly builds using **Jenkins.**
* Extensive experience using **MAVEN** as build tools for the building of deployable **Artifacts** (jar &war ) from source code.
* Maintained build related scripts developed in shell for **Maven builds** also created and modified build configuration files including **POM.xml.**
* Implemented Continuous Delivery framework using **Jenkins**, **CHEF** and **Maven** in Linux environment.
* Experience in Setting up **Chef Workstation**, **boot strapping** various **enterprise nodes** and setting up **keys**and alsofocused on **automation** and **continuous integration. Automated** local development environment using **Chef**.
* Responsible for writing **Chef Cookbooks** and **Recipes** in **Ruby** to provision several pre-prod environments consisting of **Cassandra DB** installations, **WebLogic** domain creations and several proprietary middleware installations.
* Responsible for managing the **Chef** Client nodes and upload the **Cookbooks** to **chef-server** from Workstation.
* Evaluated testing of **Chef Recipes** - Concept of Test-Driven Development for Infrastructure as a Code.
* Created **Docker** images using a **Docker file**, worked on **Docker container** snapshots, removing images and managed Docker volumes.
* Created additional **Docker Slave Nodes** for Jenkins using custom **Docker Images** and pulled them to **ECR**. And worked on all major components of Docker like, **Docker Daemon, Hub, Images, Registry, Swarm** etc.
* Created **Bash, Shell & Python** scripts for various Systems Administration tasks to automate repeated processes.
* Installed, configured and managed monitoring tools such as **Nagios**&**Splunk** for Resource Monitoring/Network Monitoring/Log Trace Monitoring.
* Worked with **JIRA** for change control & ticketing which handles DCR (defect Change Request) MR (Maintenance Request).

**Environment:AWS, S3, EBS, Elastic Load balancer (ELB), auto scaling groups, VPC, IAM, Cloud Watch, Glacier, Jenkins, Maven, Subversion, Ant, Bash Scripts, Git, Bitbucket, Docker, Jira, Chef, and Nexus in Linux environment. VERITAS Netback up 4.x/5.x/6.x, Solstice Disk Suite, OpenStack.**

**Systems &Services Limited, Hyderabad, India January 2014– December 2015**

**DevOps Engineer**

**Responsibilities:**

* Installed and administered **GIT and Bit Bucket** source code tools and ensured the reliability of the application as well as designed the branching strategies for **GIT** and **Bitbucket.**
* Responsible for design and maintenance of the **Bitbucket/GIT** Repositories, views, and the access control strategies.
* Implemented **Jenkins** as **Continuous Integration** Server for – Installation, Configuration, Design and Administration, and integrating tools with other systems.
* Coordinated resources by working closely with project managers during release and carried deployments and builds on various environments using **Continuous Integration** tool.
* Implemented **Continuous Integration** and **Continuous deployment** using various CI Tools like **Jenkins** and **Nexus**.
* Developed **Bash** scripts to redact sensitive data from **Apache** access and error logs using a sed expression, deploy **WAR** files to environments in parallel.
* Built scripts using **ANT** and **MAVEN** build tools in Jenkins to move from one environment to other environments.
* Utilized **Jenkins** for enterprise scale infrastructure configuration and application deployments - checking out code from **SVN/Git** and use **Ant/Maven** to build Artifacts.
* Used **Puppet** for Continuous Delivery. Managed **CI** and **CD** process using Jenkins and delivered all applications in rpms.
* Wrote **Puppet** Manifest files to deploy automated tasks to many servers at once.
* Automated deployment modules of **IIS** web applications, bindings and configuration settings using a combination of **PowerShell** scripts and **Puppet**.
* Redesigned and redeployed the **Nagios** implementation. Nodes automatically added/removed themselves via **Puppet**.
* Created multiple automation tools geared for safe **Cluster management**, Service and **IIS** restarts, Parallel bit deployments, VM deployments, and general server management automation.
* Worked on **Hibernate** for mapping the **Java** objects to relational database and **SQL** queries to fetch the data, insert and update the data from the database.
* Developed scripts in **Python** to package log files and send them to a remote server
* Ported Linux **BASH** scripts to work with **RHEL** ultimately contributing ideas and code to make automation tool work more reliably with Fedora environments.
* Installed operating systems, patches, hardware, vendor software packages, system customization and documentation of all departmental **UNIX,** PC-based workstations and Terminal.
* **NFS Management** - Take care of user accounts/groups, setting up of **NFS** Environment.
* Used **JIRA** for bug tracking, creating the dashboard for issues.
* Made proposals for architecture definition of external application integration on top of **BT stack** and designed, Implementation, Debugging and Bug fixing.
* Formulated and executed designing standards for **DNS servers**.
* Interacted with the Business Analysts in understanding the business requirements.

**Environment: Red Hat Linux 4.x, CentOS 4.6/4.7/5, VMware, Apache 2.0, RabbitMQ, Git, Jenkins Graylog2, NFS, Chef, Puppet, JIRA, Python, Vagrant, DNS Servers, GIT, Bitbucket.**

**Prime Soft Technologies Pvt Ltd–Hyderabad, India December 2012 – December 2013**

**Linux/VMWare Admin**

* Installation of **Red Hat Enterprise Linux** 4.x, 5.x using **Kickstart** and PXE on **HP Blade Servers**.
* Installing, Configuring and Upgrading of the **Cent OS 5.x**.
* Performed support role for applications on mission critical Enterprise Networks and Multi-server environments.
* Troubleshooting various issues on **SSH, FTP, Telnet** etc.
* Implementations of automatic secure **SSH Login, User** and **Group administration**.
* Virtualized Linux servers and deployed automated tasks using **BMC Blade Logic Server** Automation Suite.
* **Samba & NFS** file Server for sharing files on multiple clients.
* Patch and package administration for installation of patches as per the company policy and installation of packaged application.
* Implemented **Spacewalk Open Source (Red Hat Satellite Server)** System management application for auto provisioning, software grouping, custom package channel, system inventory, auto deploying patches and monitoring of Red Hat Servers.
* Responsible for developing and planning the implementation of technical downtime and recovery processes and the technical setup of downtime systems.
* **Data Warehousing** and System Backup using tar, cpio for local systems.
* Worked on **POSTFIX** mail server running on **Red Hat Linux**.
* Remote system administration using tools like **SSH, Telnet** and **Rlogin.**
* Implemented open source base monitoring tool **Nagios** 3.0 for servers, **SAN** switches**, EMC SAN** Storage and **VMware ESX** and**ESXi.**
* Day to Day activities included handling security issues like stale **UNIX** account cleanups, 90-day password changes, setting max age and min age, creating a list of umask settings for various users.
* Ensuring data redundancy with **RAID** implementation with User, Group management for all the **UNIX** servers.
* Build Apache2 web server in Solaris and **Apache in Red Hat, FTP** and **NFS**.

**Environment:Red Hat Enterprise Linux 3.x/4.x/5.x,Cent OS 5,Fedora core 2, Apache2.0, Postfix, BMC Patrol, RAID, HP DL, C7000, PE Dell R410,R610, VMware ESX Server2.x, RAID, FTP, NFS.**

**CVL Soft Pvt Ltd, India May 2011 - November 2012**

**Linux Administrator**

**Responsibilities:**

* Installation, configuration and administration of **Red Hat Linux servers** and support for Servers.
* Installation, maintenance and regular upgrades of Red Hat Linux Servers using kick start-based network installation
* Provided 24x7 System Administration support for **Red Hat Linux 3.x, 4.x servers** and resolved trouble tickets on shift rotation basis.
* Provide the support of building the server, patching, user administration tasks, deployment, software installation, performance tuning and troubleshooting and **KVM**.
* Managing Compaq and Linux workstations and servers.
* Installation of patches and other software packages.
* Disk and File system management through Solstice Disk Suite on **Solaris** and other logical volume manager for another flavor of **UNIX**.
* Monitoring system performance, tune-up kernel parameter, adding /removing /administering hosts, users, disks on **DNS / NIS** domain.
* Configuration of Hardware and Software **RAID** on Digital &amp; Sun Servers.
* Installation of Oracle Patches and Troubleshooting, Creating and modifying application related objects, Creating Profiles, Users, Roles and maintaining system security.
* Administrative tasks such as System Startup/shutdown, Backup strategy, Printing, Documentation, User Management, Security, Network management, dumb terminals and devices carried out.
* Installation and configuration of Oracle 7.x/8.x.
* Implemented **NFS, DNS** and **NIS** under **SUN**.
* Performed the administration of the Domain Name Server and configuration of the Database Files.
* Wrote bash shell scripts for getting information about various Linux servers
* Installed and Configured Send Mail Utility on Sun **UNIX** Servers.
* Administering **NFS** Mounts.
* Troubleshooting Backup and Restore Problems Creation of **LVMs** on **SAN** using Linux utilities.
* Monitored overall system performance, performed user management, system updates and disk & storage management.
* Performed OS upgrades and Patch loading as and when required.
* Backing up and restoring files across the network.
* Wrote Technical documentation for various projects and worked with Technical writer to finalizethe documents.

**Environment:Red Hat Linux 4.1,4.2,4.3,4.4, Sunfire 4500/ V880 / V480/ E420R/ E450/ E250, Sunstoredge L280, A1000, A5000, JBODS COMPAQ Servers, SOLSticedisk suite, Oracle 7.X/8.X.**

**Education**:

Bachelor’s in Information Technology from JNTUH in 2010

Master’s in Computer Science from Concordia University in 2017