**Full Name : Ravi Kumar Sigurla**

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**PROFESSIONAL SUMMARY:**

* 8 years of experience as Linux Administrator/Azure AWS Cloud/DevOps Engineer in Infrastructure automation, code migration, Configuration Management and system administration.
* Experience on managing various **AWS** services like **EC2, S3, RDS, EBS, VPC, IAM, ELB, NACL**, **SQS, SNS, SES, Cloud Watch, Cloud Formation, Route53**, **Security Groups, Route Tables, Lambda** and several other services of AWS family and have exposure on other cloud services like **GCP, OpenStack**.
* Experience in setting-up databases in AWS using **RDS**, storage using **S3** bucket and configuring instance backups to S3 bucket.
* Experience in launching different EC2 instances in **Virtual private cloud** (VPC) in different subnets, attached **ACLs** at subnet level and security groups at instance level, configured Route Tables & NAT and **Internet Gateways, Elastic Load Balancers** (ELB) and **Auto scaling** groups in Production environment.
* Experience in optimizing volumes, EC2 instances and **Created Alarms and Notifications** for EC2 instances using **Cloud Watch**.
* Experience in Windows Azure Services like **PaaS, IaaS** and worked on storages like **Blob** (Page and Block), **Sql Azure**. Well experienced in deployment & configuration management and Virtualization.
* Excellent knowledge in Azure compute services, **Azure Web apps, Azure Data Factory & Storage, Azure Media & Content delivery, Azure Networking, Azure Hybrid Integration** and **Azure Identity & Access Management.**
* Designed and configured Azure Virtual Networks (VNets), subnets, Azure network settings, **DHCP** address blocks, DNS settings, security policies and routing.
* Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker, on **GCP (Google Cloud Platform).**
* Experience writing **Chef Cookbooks** and **Recipes** to automate the deployment process and to integrating Chef Cookbooks into **Jenkins** jobs for a continuous delivery framework.
* Installed and Configured **Chef Server**, **Workstation**, **Client servers and nodes**, written several recipes, cookbooks in Chef to automate the environment provisioning, Middleware Infrastructure Installations
* Worked on **Ansible** and **Ansible Tower** to automate repetitive tasks, to deploy critical applications quickly, and proactively manage the changes.
* Experience on Virtualization technologies like **VMware**, **Vagrant**, **Oracle Virtual Box**, Microsoft virtual PC.
* Utilized Puppet and Puppet dashboard for Configuration Management of hosted Instances within AWS.
* Implemented **Terraform** modules for deployment of applications across multiple cloud providers.
* **Jenkins** is used as a continuous integration tool for build and deployment of **JAVA** applications.
* Extensive experience on Jenkins, Build Forge and **Docker** for continuous integration and end to end automation for all build and deployments.
* Responsible for Continuous Integration (CI) and Continuous Delivery (CD) process implementation using Jenkins along with **Shell scripts** to automate routine jobs.
* Experience in using build automation tools like **MAVEN, Gradle**, and **ANT** for the building of deployable artifacts such as **WAR & EAR** from source code.
* Experience in working on source control management tools like **GIT (GitHub**), **Subversion (SVN)** and creating GIT repositories with specified branching strategies.
* Experience in deploying **Kubernetes Cluster** on cloud/on-premises environments with master/minion architecture and wrote many **YAML** files to create many services like **pods, deployments, auto scaling, load balancers, labels, health checks, Namespaces, Config Map.**
* Experience with container based Virtualized deployments using **Docker,** working with **Docker images** and **Docker registries** and Container Management tools **Kubernetes and Swarm**.
* Experience in configuring and deploying **Java and J2EE** applications into application servers like **WebSphere, Jboss and Apache Tomcat, Web Logic**.
* Expertise in implementation and maintenance of **Apache HTTP, SMTP, DNS, TCP/IP**, Security Management & Security trouble shooting skills.
* The **FTE** concept is also applied to project management or resource allocation, where it helps to assess the total effort or capacity required for a project or task
* Worked on various scripting languages like **Python, Ruby, Shell** for various applications.
* Experience in **shell scripting** using **bash**, **Perl, Ruby and Python** to automate system administration jobs.
* Good understanding of **Software Development Life Cycle** (SDLC) like **Agile**, **Waterfall** Methodologies.
* Infrastructure management, infrastructure health metrics and performance monitoring using **Cloud Watch, Nagios, Logstash, Splunk, Grafana, Prometheus.**

**TECHNICAL SKILLS:**

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| **Build Tools** | Apache Ant, Maven, Gradle, Microsoft Build |
| **Continuous Integration Tools** | Jenkins/Hudson, Build Forge, Atlassian Bamboo |
| **Artifact Repository Management** | Jfrog Artifactory, Nexus |
| **Configuration Management Tools** | Chef, Ansible |
| **Cloud Providers** | AWS, Azure, Open Stack, GCP |
| **Bug Tracking Tools** | Atlassian JIRA, REMEDY, HP Service Management |
| **Monitoring Tools** | NAGIOS, ICINGA, Cloud Watch, Splunk |
| **Operating systems** | Linux, RHEL, CentOs, Ubuntu, Windows, Debian |
| **Version Control Tools** | SVN, GIT (GitHub, Bitbucket, GitLabs). |
| **Application Servers/ Middleware** | Apache Tomcat, WebLogic, WebSphere, JBOSS |
| **Network Services** | TCP/IP, Subnetting, DNS, NFS, NIS, SSH, DHCP. |
| **Databases** | MySQL, MongoDB, Cassandra, PostgreSQL, SQL Server |

**PROFESSIONAL EXPERIENCE:**

**Client: Client: IBM, Raleigh, NC Sep 2021- Present**

**Role: Sr.Azure DevOps & AWS Engineer**

**Responsibilities:**

* Worked on various Azure services like **Compute** (Web Roles, Worker Roles), **Azure Websites, Caching, SQL Azure, NoSQL, Storage, Network services, Azure Active Directory, API Management, Scheduling**, **Auto Scaling, and PowerShell Automation**.
* Deployed Azure IaaS virtual machines (VMs) and Cloud services (PaaS role instances) into secure **VNets** and **subnets.**
* Configure continuous integration from source control, setting up build definition within Visual Studio Team Services **(VSTS)** and configure continuous delivery to automate the deployment of ASP.NET MVC applications to Azure web apps**.**
* Azure DevOps Engineers play a crucial role in enabling organizations to deliver software more efficiently and reliably. They help bridge the gap between development and operations, fostering a culture of collaboration, automation, and continuous improvement in software delivery practices.
* Experience in migrating on premise to Windows Azure using **Azure Site Recovery** and **Azure backups**.
* Worked on creating Custom Azure Templates for quick deployments and advanced **PowerShell** scripting.
* Managed subscriptions, services, and virtual servers within Azure Portal for **troubleshooting**, **testing** and diagnostics. Expertise in migrating the existing v1 (Classic) Azure infrastructure into v2 (ARM), scripting and templating the whole end to end process as much as possible so that it is customizable for each area being migrated.
* Experience of process and transform data by running USQL scripts on Azure.
* Configure Implement, Secure and support Virtual Network and best security practices for single and multi-regional data centers.
* Implementing security best practices in Azure DevOps pipelines and ensuring compliance with security standards.
* Designed Network Security Groups (NSGs) to control **inbound** and **outbound** access to network interfaces (NICs), VMs and subnets.
* Worked on design and implement **VM Storage** - configure shared storage, configure VM disk storage and **Azure** disk encryption.
* Worked on setting up of hosted Chef Servers to facilitate automation of services by installing **Chef WorkStation, Chef Server and Chef Client.**
* Written **Chef** Cookbooks for various **DB configurations** to modularize and optimize end product configuration, and also converting production support scripts to Chef Recipes.
* With setting up Chef Infra, bootstrapping nodes, creating and uploading Chef Recipes, ChefNode convergence in Chef SCM.
* Resolving cookbook dependencies using **Berkshelf.** And Running recipes in standalone mode using **CHEF-solo and CHEF-zero**.
* Implementing and managing CI/CD pipelines using Azure Pipelines to automate the build, test, and deployment processes.
* Created private cloud using **Kubernetes** that supports DEV, TEST, and PROD environments.
* Managed Clusters using **Kubernetes** and worked on creating many pods, replication controllers, services, deployments, labels, health checks.
* **FTE** in DevOps is a useful metric for assessing the level of investment and effort being put into implementing and maintaining DevOps practices. It can also be used to evaluate the efficiency and productivity of DevOps teams by tracking the resources allocated to automation,
* Used **Kubernetes** to deploy, load balance, scale and manage Docker containers with multiple namespace versions.
* Managed Kubernetes charts using **Helm**. Created reproducible builds of the Kubernetes applications managed Kubernetes manifest files and managed releases of Helm packages.
* Deployed **Docker Engines** in Virtualized Platforms for containerization of multiple applications.
* Created Docker images using a **Dockerfile** and worked on Docker container **snapshots**, removing images and managing **Docker volumes**, Used Docker swarm to deploy the containers into the cluster using **Docker CLI.**
* Created docker-compose.yaml file templates to deploy images in docker containers managed by Docker swarm.
* Utilized **Kubernetes** and **Docker** for the runtime environment of the CI/CD system to build test and deploy.
* Deploying Micro services in Dev & QA environment using **AWS ECS** and **Docker.**
* Automated creating ami's and stored in aws ami account and Docker images stored in aws Docker hub using Packer through Jenkins.
* Launching infrastructure in aws using ami's created by Packer tool through Jenkins.
* Using **terraform** we can also customize our infrastructure in aws configuring various aws resources.
* **MySQL** container deployment in **Docker** using **Python** and monitoring of these containers.
* Worked on Continuous Integration workflow using Virtual Environments like **Docker** and build various containers to deploy the micro services-oriented environments for scalable applications.
* Performed all necessary day-to-day **GIT** support for different projects and expert in creating branching strategies to maintain GIT repository.
* Integrated **GIT** into Continuous Integration Environment using **Jenkins/Hudson** to automate the code check-out process.
* Designing, creating and maintaining **GIT** repositories to client specifications.
* Monitoring daily builds using continuous integration tool **Jenkins**. And taking weekly **back-ups** from Jenkins home directory.
* Built end to end CI/CD Pipelines in Jenkins to retrieve code, compile applications, perform tests and push build artifacts to **Nexus.**
* Configured **email** and messaging notifications, managed users and permissions, and system settings by using **Jenkins.**
* Manage Operations within the IAM environment at the client, Including application patching and upgrades and certificate management.
* Focus on IAM design, deployment, automation, testing and maintenance.
* Created various jobs in **Splunk** for logs management.
* Worked on setting up **Splunk** to capture and analyze data from various layers Load Balancers, Webservers.

**Environment:** Chef, GIT, Azure, Jenkins, Maven, Nexus, Sonar, Apache Webserver, Linux, Python, Ruby script, Shell script, Cassandra, Apache Tomcat, WebSphere.

**Client: Centene Corp, Chesterfield, MO Feb 2021- Aug 2021**

**Role: Azure DevOps/Cloud Engineer**

**Responsibilities:**

* Worked on Amazon Web Services, creating & configuration of EC2 instances, configured virtual machines with the **Elastic IPs**, worked on security groups to resolve firewall issues.
* Designed **AWS Cloud Formation Templates** to create custom sized **VPC**, Subnets, Internet Gateway, and NAT to ensure successful deployment of Web Applications.
* Creating S3 buckets and managing policies for S3 buckets and **glacier** for storage and **backup** on AWS.
* Configured AWS **Identity Access Management** (IAM) Group and users for improved login authentication.
* Lead the cloud infrastructure maintenance using a combination of **Jenkins**, **Chef** and **Terraform** for Automating CICD pipeline in **AWS**.
* Used **Cloud Front** to deliver content from AWS **edge locations** to users, allowing for further reduction of load on front-end servers.
* Experienced in designing Streaming Data solutions using AWS IoT Platform, **Amazon Kinesis**, **S3, Aurora, Lambda, API Gateway**.
* Used **AWS Beanstalk** for deploying and scaling web applications and services developed with **Java, PHP**, **Node.js, Python, Ruby** and **Docker** on familiar servers such as Apache and IIS.
* Worked on **Linux** in a Cloud Computing and Virtualized environment for Amazon Web Services (AWS).
* Writing chef recipes for various applications and deploying them in AWS using **Terraform.**
* Build and used **CloudFormation\ Terraform** templates to design and launch applications.
* Worked with **Terraform** key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation Configured **Elastic Load Balancers** (ELB) with EC2 Auto scaling groups.
* Designed Amazon Web Services Cloud Formation Templates (CFTs) and integrated with **Chef** to build a resilient and fault-tolerant infrastructure for applications.
* Built Continuous Integration environment **Jenkins, Artifactory** and Continuous delivery environment using **Jenkins and Chef**.
* Installed Chef Server Enterprise on premise/workstation and bootstrapped the nodes using **knife** and automated by testing Chef recipes/cookbooks with test-kitchen/**Chef spec**.
* Using Chef deployed and configured **Elastic search, Logstash and Kibana** (ELK) for log analytics, full text search, application monitoring in integration with **CloudWatch.**
* Written Chef Cookbooks, recipes to configure tasks for new environments and to automate the installation of Middleware Infrastructure such as **Apache tomcat, Nginx**.
* Produced Cookbooks and Recipe comprising all resources, **templates**, **attributes** and uploaded them to Chef-server.
* Used **Docker** Container to package the applications and deploying them on to **WebSphere** Application server.
* Involved in building own **Paas** with **Docker** deployed various applications through Dockers containers.
* Implemented **Docker** containers to create **images** of the applications and dynamically provision **slaves** to Jenkins CI/CD pipelines.
* 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.
* Worked with **OpenShift** platform in managing Docker containers and Kubernetes Clusters.
* Scheduled, deployed and managed container replicas onto a node cluster using **Kubernetes.**
* Build scripts on AWS cloud for scheduling EC2, auto scaling, load balancer with **PYTHON.**
* Wrote **Python** scripts for pushing data from **DynamoDB** to **MySQL** Database.
* Built CI/CD pipeline from scratch using Jenkins for our **Java** applications by integrating **GitLab, JIRA**, **Maven and Tomcat**.
* Configured **GIT** with Jenkins and schedule jobs using **Poll SCM** option.
* Worked on **Branching**, **Labelling**, and **merging** strategies for all applications in **Git.**
* Managed and monitored the server and network infrastructure using **Nagios.**
* Used **Bitbucket** to manage repositories, maintained the branching and build/release strategies utilizing **GIT** and **Bitbucket.**
* Developed **Pom.xml** files for **Maven** build scripts.
* Maintained **JIRA** for tracking and updating project defects and tasks.
* Configured **GIT** with Jenkins and schedule jobs using **Poll CM** option.
* Used **JFrog Artifactory**, **maven** release plugin in Jenkins to perform **Releases** and **Rollbacks.**
* Responsible for monitoring servers using Cloud watch and using **ELK Stack** Elastic Search, **Logstash** and **Kibana**, developed a **RESTful API** of Elasticsearch to search, analyze and visualize data.

**Environment:** Chef, GIT, AWS Cloud, Jenkins, Maven, Nexus, Sonar, Apache Webserver, Linux, Python, Ruby, Shell, MongoDB, Apache Tomcat, Amazon DynamoDB, WebSphere.

**Client: Cybage, Pune, India June 2017 – Jan 2021**

**Role: Build Release Engineer**

**Responsibilities:**

* Develop the automated build and deployment using **Ant** and **Hudson/Jenkins** using tomcat as the application server.
* Implemented and maintained the branching and build/release strategies utilizing Subversion **(SVN**) and **GIT.**
* Connected continuous integration system with **GIT** version control repository and continually build as the check-in's come from the developer.
* Installation of patches and packages using **RPM** and **YUM** in **Red hat Linux**.
* Building & configuring Red Hat Linux systems over the network, implementing automated tasks through **crontab**, resolving tickets according to the priority basis.
* Administration of Jenkins server- Includes Setup of **Jenkins**, Configured **Nightly builds**, and **parameterized** builds and deployment automation.
* Worked on **Nexus** repository to maintain **artifacts** and used as a local repository.
* Coordinated the Development Team, QC and Application Support in Deploying the Code to the right System Test Environment using **Hudson** Tool.
* Maintained build related scripts developed in shell for **Maven** builds. Created and modified build configuration files including POM.xml.
* Automating system administration tasks using **shell scripts**, Jenkins.
* Installed and administered **Artifactory** repository to deploy the artifacts generated by **Maven** and to store the dependent jars which are used during the build.
* Create **UNIX** scripts for build and Release activities in QA, Staging and Production environments.
* Configure network protocols such as **DNS, DHCP** and **SMTP** and troubleshoot network issues related to **TCP/IP** protocol providing support for users in solving their problems.
* Involved in setting up **JIRA** as defect tracking system and configured various workflows, customizations, and plugins for the JIRA bug/issue tracker.
* Deployed the **Java** applications into web application servers like **Apache Tomcat**.
* Setting up and managing **Jenkins** for **UAT** and Production environment and creating jobs for each micro service from scratch.

**Environment:** Git, Jenkins, Nexus, JIRA, Apache Tomcat, Shell scripts, Red Hat Linux, SVN.

**Client: Marolix Technology Solutions Pvt Ltd, Hyd, India Feb 2016 – May 2017**

**Role: Sr. Linux Administrator**

**Responsibilities:**

* Writing a **Linux Shell Script** and scheduled the respective run levels for automate day-to-day activities such as auto start application server, web server, log rotate and removing the old logs.
* Managed users, disks, group's administration, File Sharing Permissions, backup and restore operations, and networking service.
* Setup, configured and maintained **NFS, NIS**, and **TCP/IP** network, setting up **SSH** and **SCP** features between hosts.
* Involved in design, configuration, installation, implementation, management, maintain and support for the Corporate Linux servers **RHEL 4x, 5.x, SLES 9, CENTOS 5.x**.
* Design **Firewall** rules for new servers to enable communication with application servers.
* Install Red Hat Linux using **kickstarts** and interactive installation and apply security polices for hardening the server based on the company policies and procedures.
* Managed password configurations, process monitoring, Boot up and Shutdown procedures.   
  Monitored System Performance of Virtual memory, Managing Swap Space, **Disk** utilization and **CPU** utilization.
* Managed and maintained virtual computing environment based on **VMware** and administered virtual windows and Linux operation systems.
* Installation and configuration of Netscape and **Apache** web server and **Samba** Server.
* Planned, scheduled and Implemented OS patches on both **Solaris & Linux** boxes as a part of proactive maintenance.
* Involved in development, user acceptance, and **performance testing,** production &**disaster recovery** server.
* Wrote **Shell scripts** to automate the deployments to **Jboss** server’s application prod and pre-prod Servers.
* Responsible for writing/modifying scripts using **sh, ksh**, and **bash** for day-to-day administration.

**Environment:** Red Hat Linux (RHEL 4/5), Logical Volume Manager, Global File System, Red Hat Cluster Servers, Oracle, MySQL, DNS, NIS, NFS, Apache, Tomcat.

**Client : Sony Ericsson, Hyderabad, India May 2015- Jan 2016**

**Role: Linux Administrator**

**Responsibilities:**

* Administration and maintenance of Red Hat servers for maintaining packages (system/application) on servers.
* Installation and configuring using Kickstart Red Hat server as required for the project.
* Configured different hardware and software components as per requirement to support UNIX initiatives.
* Extensively used LVM created Volume groups (VGs), Logical volumes (LVs), and disk mirroring.
* Work with RAID configuration-RAID 0, 1, 5, 0+1, writing scripts for better administration.
* Worked on installing and managing different automation and monitoring tools like Nagios, Splunk.
* Experience in running SQL queries on Oracle and MySQL Databases.
* Reported bugs and tracked defects using Jira.
* Administer database security including adding/removing users, auditing, and troubleshooting security related issues, provide internal management services.
* Setup and configured network **TCP/IP** on Red Hat, CentOS including RPC connectivity for NFS (Network Filed system).