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Description automatically generatedHARIKA DAMMALAPATI**

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**PROFESSIONAL SUMMARY:**

* Around **8+** years of IT Professional Experience as a **Linux Administrator,** **Build and Release Engineer** and **DevOps Engineer.**
* Experienced in automating, building, releasing the code from one environment to other and deploying to servers.
* Designed, configured and managed public/private cloud infrastructures utilizing Amazon Web Services (**AWS**) including **EC2**, Auto-Scaling in launching EC2 instances, Elastic Load Balancer, Elastic Beanstalk, **S3**, Glacier, Cloud Front, **RDS**, **VPC**, Direct Connect, **Route53,** Cloud Watch, CloudFormation, **IAM**, **SNS**.
* Working knowledge on other Amazon Web Services, like **Relational Database Service (RDS)**, **Redshift, EMR**, **Kinesis, DynamoDB, Elastic Beanstalk, Lambda, Glacier, Storage Gateway, Data Pipeline**.
* Extensively used Security groups, network **ACL’s**, Internet gateways and Route tables to ensure a secure zone for organization in **AWS** public cloud. Using Clover **ETL** migrated data to **AWS** Redshift and Managed Amazon redshift clusters such as launching the cluster with specifying the nodes and performing the data analysis queries.
* Experience in Designing, Architecting and implementing scalable cloud-based web applications using **AWS and GCP.**
* Implemented **Chef Recipes** for Deployment on build on internal Data Centre Servers. Also re-used and modified same **Chef Recipes** to create a Deployment directly into Amazon **EC2** instances.

Installed/Configured/Managed **Puppet Master/Agent**. Wrote custom **Modules** and **Manifests**, downloaded pre-written modules from **puppet-forge**. Upgradation or Migration of **Puppet**Community and Enterprise.

* Expertise and implemented the **Jenkins Client-Server** architecture from scratch level and hands on experience to create the projects, inventory to run templates over **Ansible tower.**
* Worked hands-on to create automated, containerized cloud application platforms (PAAS), and design and implement **DevOps** processes that use those platforms.
* Experienced in creating **Docker** Containers leveraging existing Linux Containers and **AMI's** in addition to creating Docker Containers from scratch and Worked on **Docker** service rolling updates, BLUE GREEN DEPLOYMENT to implement zero downtime PROD deployments.
* Created several pods using Master and Minion architecture of **Kubernetes** and developed microservice on boarding tools leveraging **Python** allowing for easy creation and maintenance of build jobs and **Kubernetes** deploy and services.
* Experienced in Branching, Merging, Tagging and maintaining the version across the environments using **SCM** tools like **GIT** and Subversion (**SVN**) on Linux platforms.
* Developed build and deployment scripts using **MAVEN** as build tool and automated the build and deploy processes using **Jenkins** to move from one environment to other environments.
* Experienced in Developing **KRON,** **BASH**, **PERL**, **Python,** **Shell scripts** to automate cron jobs and system maintenance. Scheduled cron jobs for job automation. Working on **Power Shell** for automation of daily tasks.
* Expertise in Querying **RDBMS** such as **MY SQL** and **SQL** Server by using **PL/SQL** for data integrity.
* Extensive experience in ticketing and tracking tools like **JIRA**, **REMEDY**, ClearQuest, Redmine, Bugzilla for Production hotfixes and bugfixes.
* Extensive Experience in using virtualization tools like Virtual Box, VMware, and provisioning virtual machines.

## **Technical Skills**

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| **Operating Systems** | Linux, Ubuntu, Unix, MS Windows, Mac OS |
| **Cloud Environments** | Amazon Web Services(AWS), Microsoft Azure, Google Cloud |
| **Application Servers** | WebLogic, Apache Tomcat, JBoss, WebSphere |
| **Web Servers** | APACHE, Nginx |
| **Automation & Configuration Tools** | Chef, Puppet, Ansible, Jenkins, Bamboo, Salt Stack, Docker, Vagrant, Terraform. |
| **Orchestration Tools** | Kubernetes, Docker swarm, Open Shift |
| **Scripting** | Python, Ruby, Perl, Bash Shell scripting, PowerShell |
| **Version Control Tools** | GIT, GitHub, Subversion, CVS, Bitbucket |
| **Monitoring Tools** | Nagios, Cloud Watch, ELK, New Relic |
| **Build Tools** | Maven, Gradle, Ant, Microsoft Build |
| **Bug Tracking Tools** | Code Commit, JIRA, Bugzilla, Remedy |
| **Security Tools** | Veracode, Qualys |
| **Databases** | MYSQL and MongoDB |

## **Professional Experience**

**Client : Equifax, PWC Atlanta, GA**

**Role: DevOps Cloud Engineer JUNE 2018 - PRESENT**

**Responsibilities:**

* Implemented Amazon **IAM** to grant fine access of AWS resources to users and managed roles and permissions of users to **AWS** account through **IAM**.
* Implemented a notification service for events in the environment using **AWS SNS** (simple notification service).
* Provisioned EC2 instances, load balancer, auto-scaling group and launch configuration for micro services using **Terraform**.
* Implementing, maintaining **EC2** servers and **S3** buckets and monitoring them using **AWS** CloudWatch. Managed Amazon **S3** and setup lifecycle policies for objects.
* Managed **AWS EC2** instances utilizing **Auto Scaling**, **Elastic Load Balancing, ALB**, **Lambda**, **S3** and Glacier for our **QA** and **UAT** environments as well as infrastructure.
* Good understanding of ELB’s, general networking principles, firewalls, routing technologies and DNS (**Route53**). Configured and managed a network of Linux and Windows servers.
* Worked on **Google Cloud Platform (GCP)** services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.
* Experience in Designing, Architecting, and implementing scalable cloud-based web applications using **AWS** and **GCP**.
* Set up a **GCP** Firewall rules in order to allow or deny traffic to and from the **VM's** instances based on specified configuration and used **GCP** cloud **CDN** (content delivery network) to deliver content from **GCP** cache locations drastically improving user experience and latency.
* Used **Ansible playbooks** to setup Continuous Delivery pipeline. This primarily consists of a **Jenkins** and **SonarQube** server, the infrastructure to run these packages and various supporting software components such as Maven, etc.
* Create develop and test environments of different applications by provisioning Kubernetes clusters on AWS using **Docker**, Ansible, and Terraform. storing the containers in ECS.
* Worked on creating **Kubernetes** cluster for automating deployment, scaling, management of containerized applications.
* Building/Maintaining Docker container clusters managed by **Kubernetes**, Linux, Bash, GIT, **Docker**, on **GCP** (Google Cloud Platform). Utilized **Kubernetes, Docker** and **Openshift** for the runtime environment of the CI/CD system to build, test & deploy.
* Deployed **MongoDB** using Docker image and setting up **Mongo DB** cluster using MongoDB Atlas.
* worked on Implementing a Continuous Delivery framework using **Jenkins**, Maven and **Nexus** in Linux environment.
* Enabled end to end CI/CD pipeline for Java based applications using **Jenkins**, **Bitbucket**, and Artifactory and integrated with different testing tools like **SonarQube**, **Veracode** and **Selenium**.
* Installed, Configured, Managed Monitoring Tools such as **Splunk**, **Nagios** for Resource Monitoring/Network Monitoring/Log Trace Monitoring.
* Developed continuous integration strategy using **Jenkins** build servers and **GitLab CI** with **GitLab**.
* Enabling customers to better manage software development, deployments, and infrastructure with tools such as **Jenkins** and **GitHub.**
* Automated setting up server infrastructure for the **DevOps** services using **Ansible**, **shell** and **python scripts**.
* Written **groovy scripts**to use **multi branch pipeline projects in Jenkins** to configure it as per client’s requirements.
* The deployment model uses Atlassian development repository tools, **Jenkins** as the build engine, while execution deployments to container orchestration tools ranged over time from **OpenShift** on EC2, **AWS CFT**.
* Build and Deployed **Java**/**J2EE** to a web application server in an **Agile** continuous integration environment and automated the process.
* Implemented **Maven** as **build tool** on **Java projects** for the development of **build artifacts** on the source code.
* Automated the process of configuration of different servers using **Ansible** and **Chef.**
* Used **Chef** to Configure and manage Infrastructure. Wrote **cookbooks** to automate the configuration setups.
* Deployed and Implemented **Chef** for infrastructure as **code** initiative.
* Experienced in writing **Chef** **Recipes** to automate our build/deployment process and do an overall process improvement to any manual processes.
* Used file module in **Ansible playbook** to copy and remove files on remote systems.
* Utilized **Ansible** as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
* Involved in branching, tagging, and maintaining the versions across the environments using SCM tools like Subversion (SVN) and **GIT** on Linux and Windows environments. Involved in developing custom scripts using Perl and Shell scripts to automate jobs.
* Created repositories, branches, tags in **GIT** and assisting the developers in fixing merge issues.
* Developed a fully automated continuous integration system using Git, Jenkins, MySQL, and custom tools developed in **Python** and **Bash**.

**Environment**: AWS services like (EC2, IAM, Route53, S3, ELB, RDS, Security Groups, Cloud Watch, EKS, Cloud formation),GCP, Git, GitHub, Docker, Kubernetes, VMware, Jenkins, Terraform, Ansible, Maven, Perl, shell, Python, Java, ELK and **Nagios**.

**Client: Elekta St. Louis, MO**

**Role: Cloud DevOps Engineer SEPT 2016 – MAY 2018**

**Responsibilities:**

* Designed integration and management of **Amazon Web Services** cloud solutions. Experience in **AWS** services such as **EC2**, **ELB**, **Auto-Scaling**, **EC2 Container Service, S3, IAM, VPC, RDS, DynamoDB, Cloud Trail, Cloud Watch, Lambda, SNS, SQS and Storage Gateway**.
* Provisioning of **EC2** instances, built via **Ansible**, and integrated into local area offices in 5 time zones. Amazon RDS, VPC construction, Security Group policies, IAM, Route 53, Cloud Formation, S3. Involved heavily in setting up the **CI/CD** pipeline using **Jenkins**, **Maven**, **Nexus**, **GitHub**, **Ansible**, **Terraform** and **AWS**.
* Developed build and deployment scripts using **MAVEN** as build tool and automated the build and deploy processes using **Jenkins** to move from one environment to other environments. Defined dependencies and plugins in **Maven** pom.xml for various activities and integrated **Maven** with **GIT** to manage and deploy project related tags.
* Created **Ansible roles** in **YAML** and defined tasks, variables, files, handlers, and templates. Created inventory and configured the **Ansible** files for parallel deployment in **Ansible** for automating the Continuous delivery process.
* Worked in container-based technologies like **Docker, Kubernetes** and **Openshift.**
* Managing the **Openshift** cluster that includes scaling up and down the **AWS** app nodes.
* Had very strong exposure using ansible automation in replacing the different components of **open shift** like ETCD, MASTER, APP, INFRA.
* Used **Ansible** to automate Configuration management and to manage Web Applications, Configured Files, Data Base, Commands, Users Mount Points and Packages. Wrote **Ansible Playbooks** with Python **SSH** as the Wrapper to Manage Configurations of **AWS** nodes and Tested Playbooks on **AWS** instances using **Python**.
* Configured **Docker** file with different artifacts to make an image and deployed those **Docker** images to different servers for running the applications on containers and **Container clustering** with **Docker Mesos/Kubernetes**. Implementing and Managing **Docker** and **Kubernetes** infrastructure.
* Created several **pods** using Master and Minion architecture of **Kubernetes** and developed microservice on boarding tools leveraging **Python** allowing for easy creation and maintenance of build jobs and **Kubernetes** deploy and services.
* Performed integrating, **JUnit** and code quality Tests as a part of build process.
* Configuration and Management of **RDBMS (Aurora, MySQL, and Postgres DB)** and **NoSQL** tools such as **DynamoDB**, **Redshift**. Deployed the java applications into web application servers like **JBOSS**.
* Created **New Relic** dashboard and queries for all the services. Extensively involved in infrastructure as code, execution plans, resource graph and change automation using **Terraform**. Designed and developed Application load tests identified application performance bottlenecks and SLA server monitoring using **New Relic** and **LoadRunner**.
* Experienced in using Bug Tracking tools like **JIRA** and HP Quality center. Used **JIRA** as a Change Management/Work Management/**SCRUM Agile Tool**. Experience with various persistence mechanisms and APIs like SOAP API's and Rest API's.
* Experience in Developing **BASH, JSON, PERL, Python, Go Lang, and Shell** scripts to automate cron jobs and system maintenance. Scheduled cron jobs for job automation.
* Experience working in **Agile Scrum** Software Development Life Cycle with respect to delivering Operations, Functional and Technical Specifications, Resource Planning, Development, Testing and Maintenance.

**Environment:** AWS EC2, S3, Tomcat Apache, Cloud Formation, Dynamo DB, VPC, IAM, New Relic, Git, Linux/Unix, F5, Jenkins, Maven, Docker, Ansible, Shell, Python, JSON, Perl, Redshift, MySQL, Databases, CentOS, Ubuntu.

**Client: US cellular, Chicago, IL**

**Role: DevOps Cloud Engineer MAY 2014 – SEPT 2016**

**Responsibilities:**

* Handled operations and maintenance support for AWS cloud resources which includes launching, maintaining, and troubleshooting **EC2 instances**, and **S3 buckets**, Virtual Private Clouds (**VPC**), Elastic Load Balancers (**ELB**) and Relational Database Services (**RDS**).
* Experience in designing and deploying AWS Solutions using EC2, S3, EBS, ELB, Auto Scaling groups. Cloud as a code with **Ansible**.
* Assisted in installation of various CI/CD tools like **Jenkins**, puppet, **ansible**, **docker** and **terraform**.
* Installed application on AWS EC2 instances and configured the storage on S3 buckets.
* Creating snap shots, **AMIs**, Elastic IP’s and managing **EBS** volumes.
* Worked on Troubleshooting on Instance launch, Stopping, connecting, recovery issues and effectively troubleshooted windows instance on EC2 instances in limited time.
* Setup/Managing CDN on Amazon Cloud Front to advance site performance.
* Launching and configuring of Amazon EC2 (AWS) Cloud Servers using AMI(Linux/Ubuntu) and configuring the servers for specified applications using Jenkins.
* Experienced in automated deployment (terraform, AWS Cloud Formation), and serverless architecture AWS lambda and AWS services, environments in VMware and the AWS cloud.
* Creating load-balancing servers and monitoring activities using cloud trail and **cloud watch**.
* Performed Linux administration tasks in test and production environments with Installing, configuring, and troubleshooting the client applications on the Linux servers.
* Involved in Building data backup/recovery strategy and plans.
* Installing and configure Java, **Splunk** and **tomcat** by using Ansible playbook configuration management.
* Led **Hudson** continuous integration server installation and configuration for all **GIT Repositories**.
* Create and Managing the VPC, Subnets and route table to connection between different zones.
* Setup MAVEN script-based jobs in Jenkins and Worked with **Jenkins Pipelines**.
* Used UDeploy as Continuous Deployment tool and to setup automated and scheduled deployments.
* Maintained build related scripts developed in **Maven** and Shell.
* Used **MAVEN** as a build tools on java projects for the development of build artifacts on the source code.
* Built end to end CI/CD Pipelines in Jenkins integrating SCM, compiling source code, performing tests and pushing build artifacts to **JFrog** Artifactory and **Nexus**.
* Worked with Source Control Systems like **SVN** and **GIT**.
* Used Build Forge to automate and accelerate the Build Release Process. This includes repetitive tasks in productivity development life cycles.
* Scripted PowerShell reports to check for user account audit compliance.
* Installation, Configuration, Administration and Upgrade of Redhat Linux 5.x, 6.x Operating systems.
* Implemented and administered VMware ESX 3.5, 4.x for running Red hat Linux servers on development ant test servers.

**Environment**: Git, SVN, Maven, Jenkins, Redhat Linux, Centos, VMware ESX, Amazon Web Services (EC2, ECS, Dynamo DB, EMR, VPC, Subnets, IAM, Route53, S3, ELB, RDS, Security Groups, Cloud Formation), Ansible, Tomcat, MAVEN.

**Client: MPS Ltd. – INDIA**

**Role: Build And Release Engineer JULY 2013 – March 2014**

**Responsibilities:**

* Maintained and Administered **GIT** Source Code Tool. Migration of the Source Code from **Apache Subversion (SVN)** to **GIT HUB**, and the migration from **GIT HUB** to **BIT Bucket**. Maintained the branching and build strategies utilizing **GIT**.
* Implemented a **GIT** mirror for **SVN** repository, which enables users to use both **GIT** and **SVN**.
* Installed and Configured **Jenkins** for Automating Deployment and automation solution. Used **Jenkins** for Automating Builds and deployed builds.
* Familiar and experienced with **Agile** **Scrum** **development**. Supporting **Build**, **deployment,** and **release** process. Requirement analysis for new enhancements of **build** process.
* Development, Quality Assurance and Management teams to ensure cross communication and confirmed approval of all production changes.
* Started the automation process by setting up Continuous Integration (**CI**) environment using **Jenkins**, **Nexus.**
* Build and Deployed **Java**/**J2EE** to a web application server in an **Agile** continuous integration environment and automated the process.
* Created and maintained the **Shell** deployment scripts for **Web** **Logic** and **web** **application** **servers**. Developed **shell** scripts for automation of the build and release process.
* Involved in editing the existing **MAVEN** files in case of errors or changes in the project requirements.
* Perform periodic system audits on all environments to ensure that only controlled versions of software reside all environments.
* Developed build and deployment processes for Pre-production environments. Responsible for designing and deploying **SCM** processes and procedures.
* Resolved merging issues and re-integrating branches by conducting meetings with Development team leads.
* Supported and developed tools for integration, automation, and release management. Resolved merging issues and re-integrating branches by conducting meetings with Development team leads. Developed, maintained and distributed release notes for each scheduled release.

**Environment**: Tomcat Apache Application Server, Linux, GIT, Linux, Maven, Jenkins, Nexus, VMware.

**Client: Tychee Innovations Pvt.Ltd.-INDIA**

**Role: Linux Administrator AUG 2012 – JUNE 2013**

**Responsibilities:**

* Involved in Building and configuring **Red Hat** Linux Servers using Kickstart server as required for the project.
* Created and modified application related objects, created profiles, users, roles and maintained system security.
* Evaluated varied system logs and enforced good practices for web and application server environments. Configured Apache for **JBOSS** domains with virtual servers.
* Responsible for maintenance of development tools and utilities to maintain shell, **Perl** automation Scripts.
* Day to day troubleshooting and support for the end users newly migrated to Linux. Performance monitoring and tuning of Linux servers. Modified Kernel **parameters** to improve the server performance in Linux.
* Experience in Developing **KORN**, **BASH**, **PERL**, Shell scripts to automate cron jobs and system maintenance.
* Installed and configured **Apache**/**Tomcat** web server. Created Logical volumes (**LVM**) for Linux operating systems. Created and modified users and groups with **SUDO** permission.
* Experienced in Troubleshooting critical hardware and software issues and day-to-day user trouble tickets.

**Environment:** Red Hat Linux, Korn Shell, Bash Scripting, Apache, Tomcat WebSphere, WebLogic application server.

## **Education details**

Bachelor’s in Computer Science Engineering – JNTUH 2012