# Ramana

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# PROFESSIONAL SUMMARY:-

* 8+ Years of experience in IT industry comprising of DevOps, Cloud Computing, Infrastructure Configuration Management, Linux Systems administration and Software Configuration Management (SCM).
* Expertise in creating DevOps strategy by implementing CI/CD of code with tools like Version controls, Jenkins, Maven etc. and Config Mgmt tools like Chef, Ansible & Puppet.
* Experienced in working on DevOps operations process and tools area (Code review, unit test automation, Build & Release automation, Environment, Service, Incident and Change Management).
* In-depth comprehension of Agile and Waterfall models. Converted SCM repository from CVS to Subversion.
* Experience installing and developing on ELK.
* Provisioned Centralized Logging Infrastructure based on ELK, using managed AWS ElasticSearch service.
* Skilled in monitoring servers using Nagios, Data dog, Cloud watch and using EFK Stack Elasticsearch Fluentd Kibana.
* Involved in creation and deletion of alias related to respective indices on Kibana and used Kibana in visualizing the indices that are loaded into Elastic Search .
* Can work for microservices architecture by creating applications and its components to be independently scalable, versionable and deployable.
* Expertise in DevOps, Release Engineering, Configuration Management, Cloud Infrastructure, Automation. It includes Amazon Web Services (AWS), Ant, Maven, Jenkins, Nagios, Docker, Puppet, Chef, SVN, Github, Linux etc.
* Extensive Experience to work for various clients in Aviation, Insurance, Health Care, Banking, for web based, Cloud Developer, DevOps Engineer.
* Implemented microservices, application development, and migration using AWS/Azure services such as Azure DevOps, Kubernetes Service (AKS), Container Registry, Cosmos DB, and Grafana, Azure pipelines, Monitor, RBAC, AWS Kubernetes EKS and Kubernetes API to run workloads on EKS Clusters.
* Good experience with Balancing and Reconciliation tools: ACR/Summary, ACR/Detail, and Insight in Mainframe and UNIX Environment.
* Able to execute scripts in; Shell, Python, Ruby, Perl, XML and JavaScripts.
* Extensive involvement in LINUX system Administration, System Builds, Server Builds, Installations, Upgrades, Patches, Migration, Troubleshooting on RHEL.
* Experience in shell, ruby and Python scripting.
* Worked on creating deployment scripts using PowerShell and automated multiple daily maintenance tasks using PowerShell.
* Experience working on several Docker Components like Docker Engine, Hub, Machine, creating Docker Images, Docker Registry and handling multiple images. Knowledge on mesos, marathon.
* Efficient in Build and configuration of infrastructure in cloud development through the usage of Terraform tool as IaC, and ability of modifying the Terraform modules based on the requirement of development project.
* Contributed to a method with Hashi corp Packer to test new AWS AMIs before promoting it into production .
* Worked with various C and C++ tasks, integrated with them using Python.
* Experienced in Cloud automation on AWS using Cloud Formation templates.
* Good knowledge and worked on several Azure, Google Cloud Platform and OpenStack IaaS, PaaS and SaaS tools.
* Experience in configuration and administration of Splunk clusters and in-depth knowledge of analysis and maintaining logs.
* Knowledge in using build automation tools like MAVEN, Bamboo, Gradle, and ANT for the building of deployable artifacts such as war & ear from source code.

# TECHNICAL SKILLS:-

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| Languages | C, C++, Java, J2EE, .Net |
| Database | My SQL, Oracle, Dynamo DB, Mongo DB, Cassandra. |
| Web Technologies | HTML, CSS, XML, AJAX. |
| Scripting | Bash/Shell, Ruby, Python, PHP, Perl, JavaScript, PowerShell, JSON, Groovy, YAML. |
| CI & Build Tools | Bamboo, Hudson, Jenkins, Maven, Ant, Gradle. |
| Deployment Tools | Puppet, Chef, Ansible |
| Container Tools | Kubernetes, Docker, OpenShift |
| Monitoring tools | ELK Stack (Elasticsearch, Logstash, Kibana) and Selenium. |
| Cloud | Amazon Web Services, Microsoft Azure (IaaS, PaaS & SaaS), PCF, OpenStack. |
| Networking/protocol | TCP/IP, DNS, NFS, ICMP, SMTP, DHCP, OSPF, BGP, UDP and RIP. |

# Professional Experience:-

# Client: eBay – San Jose, CA Jan 2020 - Present

# Role: DevOps Engineer

**Responsibilities:-**

* Worked on Docker container snapshots, attaching to a running container, removing images, managing directory structures and managing containers.
* Managed data warehouse using Amazon RedShift to analyze all data using standard SQL and existing business intelligence tools.
* Used HIVE to verify the logs by running SQL queries for the different components.
* Extensive usage of Linux terminal and Linux environment along with others platforms.
* Helped in migrating services from fleet to kubernetes.
* Developed IAC scripts and worked with REST APIs, and Linux; all for the Plan, Code, Build, Test, Release, Deploy, Operate and Monitor DevOps Life-Cycle phases.
* Creating the IAC pipeline to deploy the whole infra and other components.
* Implemented Jenkins pipelines into Azure pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using AKS.
* Wrote CHEF recipes for automated uDeploy agent installs/updates, uDeploy agent relays install/update and configuring the same with the uDeploy server.
* Completed set up of CD environment with focus on UrbanCodeuDeploy.
* Defined BUILD procedures designed automated deployments and implemented the BUILD process for the Dynamics AX and assisted developers in completing the TFS automated AX BUILD Template design, execution and implementation in DEV environment.
* Build TFS to VSTS migration architecture, plan.
* Used Oracle supported DBMS STATS , DBMS JOB packages to gather the statistics and schedule job respectively. Also used DBMS METADATA.GET DDL package to describe table structure.
* Migrate Data from Elasticsearch-1.4.3 Cluster to Elasticsearch-5.6.4 using Logstash, Kafka for all environments.
* Infrastructure design for the ELK Clusters.
* Good understanding in Pipelined Application Logs from App Servers to Elastic Search (ELK Stack) through Log stash.
* Implemented Disaster management for creating Elasticsearch clusters in two DC and configure Logstash to send same data to two clusters from Kafka.
* Built and maintained Elastic Search Log stash, Kibana stack to centrally collect logs that are used to monitor applications.
* Setup Alerting and monitoring using Stackdriver in GCP.
* Experience in Designing, Architecting and implementing scalable cloud-based web applications using AWS and GCP.
* Implementation of Automated Controls with ACR products
* Logical Design and Development of ACR automated controls
* Developed Data Access Layer component using C and ADO.NET.
* Trouble-shooting the issues on RHEL servers and worked on user request LAN ID requests and performance issues.
* Installed RPM's on SUSE RHEL server using repository and Redhat satellite servers.
* Experience in creating AWS AMI, have used Hashi corp Packer to create and manage the AMI's.
* Involved in using Terraform migrate legacy and monolithic systems to Amazon Web Services.
* Wrote many python scripts using different frameworks of python like pytest and context.
* Implemented an automated test strategy for testing the functionality of services using Concourse-Ci and Docker.
* Design EC2 instance architecture to meet high availability application architecture and security parameters.
* Implementing new projects builds framework using Jenkins and Maven as build framework tools.
* Create AWS instances via Jenkins with EC2 plugin and integrated nodes in Chef via knife command line utility.
* Worked on creating deployment scripts using PowerShell and automated multiple daily maintenance tasks using PowerShell.
* Automate the processes using PowerShell and windows command shell.
* Familiar with Embedded and Normalized data models in MongoDB.Worked on MongoDB database concepts such as locking, transactions, indexes, Sharding, replication, schema design, etc.
* Developed applications using latest technologies like spring, hibernate (using annotations), and REST based Webservices, XML API and tools.
* Designed and configured database and back end applications and programs.

**Environment:** Docker ACS & AKS, Google Cloud Platform(GCP), ACR/Summary 3.4 & 3.5,
ACR/Detail 3.4 & 3.5, Open stack, ELK Stack, Elasticsearch, Logstash, Kibana,  Kafka, Jenkins, Python, Packer, ADO.NET, MicroServices, Oracle 11g/12c, SpringBoot, Linux, Shell,  MySQL, HTML, XHTML, JavaScript.

**Client: FINRA – Rockville, MD Sep 2017 – Dec 2019**

# Role: DevOps Engineer

**Responsibilities:-**

* Developed automation scripting in Python (core) and used to deploy and manage Java applications across Linux servers.
* Coordinate/assist developers with establishing and applying appropriate branching, merging conventions using GIT source control.
* Set up uDeploy server along with automated scripts to backup the server and restore from backup for Disaster recovery.
* Developed strategies, and contracts for validation of deployments and automated rollbacks in uDeploy.
* Worked on AWS cloud to provision new instances, S3 Storage Services, EC2&Cloudwatch services, CI/CD pipeline management through Jenkins.
* Migrating an existing on-premises application to AWS.
* Automated the deployment process of Hadoop Jobs using Jenkins, Reduced the deployment time from hours to minutes.
* Drive complex deployments of Splunk dashboards and reports while working side by side with technical teams to solve their integration issues.
* Wrote PowerShell scripts for administrative tasks and management of the server infrastructure.
* Developed automation and deployment utilities using Ruby, Bash, PowerShell, and Python.
* Evaluate Puppet framework and tools to automate the cloud deployment and operations.
* VSTS private pipeline agents installed, configured.
* Created unit test scripts, built controller and scripts for the CI in TFS.
* Provided design, implementation review, presentation using documents, drawings on PowerPoint, and references from TFS Rangers on codeplex.
* Worked Extensively on building and maintaining clusters managed by Kubernetes , Linux, Bash, GIT , Docker, on GCP (Google Cloud Platform).
* Experience in Google Cloud components, Google container builders and GCP client libraries and cloud SDK’s.
* Responsible for implementing containerized based applications on Azure Kubernetes by using Azure Kubernetes service (AKS), Kubernetes Cluster, which are responsible for cluster management, Virtual Network to deploy agent nodes, Ingress API Gateway, MySQL Databases and Cosmo DB for stateless storage of external data, and setup reverse proxy Nginx in the cluster.
* Designed and deployed ARM (Azure Resource Manager) templates using Visual Studio Team Services for IaC.
* Co-ordinator between ORACLE DBA, Websphere Admin and UNIX Admin for deploying the products Insight-for-Mainframe and ACR-for-UNIX.
* Experience working with Vblock Infrastructure to perform Virtualization using VMWare ESX, vSphere on RHEL servers.
* Design and development of numerous reports using XML files and ADO.NET typed datasets with Crystal Reports for .Net Frame Work.
* Automate build and deployment. Install and configure VM Build servers with build controllers / agents. Customize / configure XAML and VSTS build definition templates.
* Designed architecture for ELK as Batch Layer.
* Send data to ELK using Elasticsearch-Hadoop plugin.
* Used Ansible to Setup/teardown of ELK stack (Elastic Search, Logstash, Kibana).
* Written and Maintained Automated Salt scripts for Elasticsearch, Logstash, Kibana, and Beats. Expertise in Repository Management tools Jfrog, Artifactory, and Nexus.
* Used Micro service architecture with Spring Boot based services interacting through a combination of REST and Apache Kafka message brokers and also worked with Kafka Cluster using ZooKeeper.
* Build server deployment on Cloud (EC2) servers with help of devops tools like Puppet.
* Created monitors, alarms and notifications for EC2 hosts using Cloud Watch.
* Able to create scripts for system administration and AWS using languages such as BASH and Python.
* Provided Deployment support for DEV, QA and Performance environments for Web Application, Windows Application, Web Service, Windows Services.
* Worked on infrastructure provision using Terraform. Configuring/changing the infrastructure using Templates (IaaC).
* Created a best practices Build environment using Jenkins, Packer, immutable instances, and AWS.
* Scheduled and ran application containers on clusters of physical and virtual machines using Kubernetes.
* Analyzed the builds using the SonarQube.
* Work with development/testing, deployment, systems/infrastructure and project teams to ensure continuous operation of build and test systems.
* Provided end-user training for all GIT Hub users to effectively use the tool.
* Responsible for build and deployment automation using VM Ware ESX, Docker containers, Vagrant and Puppet.
* Created and maintained user accounts, roles on MySQL, production and staging servers.
* Supporting and driving upgrades for Tools such as JIRA and Confluence including Admin tasks and troubleshooting.
* Knowledge of best practices and IT operations in an always-up, always-available service.

**Environment:** AWS, Jira,Java, ADO.NET, Google Cloud Platform(GCP), Oracle 10g, Splunk,WebLogic, Docker, python, Jenkins, Packer, Puppet, Python, Apache, Nginx, MySQL, Ant, Hadoop**,** Kubernetes ,Shell, Git, ELK Stack, Elasticsearch, Logstash, Kibana, Kafka, Terraform, Ruby,Azure, Atlassian, SonarQube.

# Client: - Irvine Company – Newport Beach, CA June 2015 – Aug 2017

# Role: DevOps Engineer

**Responsibilities:-**

* Worked on Setting up staging and production environment for CI workflow using Jenkins and its plugins.
* Responsible for Implementation, design, architecture, and support of cloud based server and service solutions.
* Templated AWS infrastructure as a code using Terraform to build staging and production environments.
* Used Terraform scripts to Automate Instances for Manual Instances that were launched before.
* Using Bash and Python, included Boto3 to supplement automation provided by Ansible and Terraform for tasks such as encrypting EBS volumes backing AMIs.
* Wrote Vagrant Scripts to spin up servers on the Developer workstations also Creating Vagrant windows and linux boxes using Packer.
* Building Docker image with Packer and provisioning with Kubernetes by using Docker Packer Builder.
* Lead design, Mentor and implement TFS branching models with complex scenarios like hotfix branches, concurrence development branches, shared Team Project environment using workspace configuration.
* Administered and supported GitHub Enterprise version control tool.
* Physical Design and Construction of ACR automated controls and Testing of dashboard interface.
* Created numerous methods for updating underlying data on client site using ADO.NET DataView's and Dataset's Update-Delete-Insert functions.
* Worked with automation of OS builds and application installations through Chef, Nagios for application and Hardware resource monitoring, worked with plugins in Nagios for monitoring resources.
* Managing AWS infrastructure and automation with CLI and API. Working on Inbound and Outbound services with automation CHEF. Deployed multiple resources simultaneously, using CloudFormation templates in AWS.
* Created Shell and Python Scripts to automate creation of AMI’s through preboot and bootstrapping techniques.
* Virtualized the servers using the Docker for the test environments and dev-environments needs. And also, configuration automation using Docker containers.
* Created additional Docker Slave Nodes for Jenkins using custom Docker Images and pulled them to ECR. Worked on all major components of Docker like, Docker Daemon, Hub, Images, Registry, and Swarm etc.
* Worked with Red Hat OpenShift Container Platform for Docker and Kubernetes. Used Kubernetes to manage containerized applications using its nodes, ConfigMaps, selector, Services and deployed application containers as Pods.
* Handled migration of on premises applications to cloud, and created resources in cloud to enable this. Used all critical AWS tools, used ELBs and Auto-Scaling policies for scalability, elasticity and availability.
* Developed Python based API (RESTful Web Service) to track sales and perform sales analysis using Flask, SQLAlchemy and PostgreSQL.
* Worked on google cloud platform (GCP) services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.
* Configuring network services such as DNS/NFS/NIS/NTP for UNIX/LINUX Servers and setting up UNIX/LINUX environments for various Servers.
* Perform software installation, upgrades/patches, troubleshooting, and maintenance of Linux system.
* Successfully developed for large scale distributed systems and reliable, fault tolerant software.
* Creating alarms in Cloud Watch service for monitoring the servers performance, CPU Utilization, disk usage etc.
* Build servers using AWS: Creating VPC, Importing volumes, launching EC2, creating security groups.

**Environment :** AWS EC2, AWS CloudWatch, ADO.NET, Google Cloud Platform(GCP), Terraform, ELK, ANT, Maven, SVN, GIT, GITHUB, Chef, Ansible, Docker, Kubernetes, Nagios, Jenkins, JIRA, Apache HTTPD, Apache Tomcat, WebSphere, JBoss, JSON, Bash, Python, Ruby.

# Client: - Branch Metrics – Redwood City, CA Dec 2014 – June 2015

# Role: DevOps Engineer

**Responsibilities:-**

* Installed and administration of windows and Linux (Centos, Ubuntu and Red hat) servers.
* Monitoring the server's health status using with different tools.
* Creating the local users and managing the passwords with using script.
* Preparing's SOPs and managing central repository.
* Configured and troubleshoot the local and remote printers.
* Providing Application Support on Red hat Servers which included Apache configuration
* Experience working with Storage Area Network (SAN), EMC Clariion, IBM XIV.
* Experience in Performance monitoring, usage and load of the system, changing kernel parameters for better performance.
* Creating and maintaining users, profiles, security, rights, disk space and process monitoring.
* User account management, worked with Perl, shell scripting (bash) to automate administration tasks.
* Experience in Networking, DNS, NFS and TCP/IP.
* RPM package installation & upgrade released by Red Hat from repository.
* Administration of client computer using SSH and FTP.
* Monitored the servers & applications using Nagios and Splunk.
* Involved in the complete Software Development Lifecycle (SDLC) using the agile development Methodology. Interacted with the end users and participated in the SCRUM meetings.
* Migrated windows and Linux servers in data center.
* Configured and troubleshoot the IP Address and LAN.
* Support for application upgrade & rollback, services start/stop on Linux Servers.
* Handled hardware issues like Memory, hard disk, Motherboard and Processor.

**Environment:** UNIX, Linux, Windows, RTC, GIT, Urban Code, WebSphere, Jenkins, Shell, Splunk, Quality Center, Nagios.

# Client: - Cumulations Technologies – Banglore, INDIA March 2012 – Dec 2013

# Role: DevOps Engineer

**Responsibilities:-**

* Working in DevOps model and making teams aware of DevOps techniques.
* Implementing new projects builds framework using Jenkins & maven as build framework tools.
* Implementing a Continuous Delivery framework using Jenkins, CHEF, and Maven in Linux environment.
* Created monitors, alarms and notifications for EC2 hosts using CloudWatch.
* Defining Release Process & Policy for projects early in SDLC.
* Integration of Maven, Jenkins, Urban Code Deploy with Patterns/Release, Git, and Cloud Foundry.
* Provided on-going support and administration for SVN, ClearCase, ClearQuest and ANT build automation and Involved in the migration of code from SVN to GIT.
* Assisted in troubleshooting and mitigating problems in vRA/vRO/vROPS production deployments.
* Performed regular software release build and deployment based on defined process and procedure, including J2EE, UNIX Scripts, Oracle PL/SQL build and deployment.
* Managed a cloud platform base on the Lambda architecture including Kafka, Spark, and Cassandra.
* Implemented and maintained Salesforce.com including custom objects, fields, reports, dashboards, and templates.
* Migrating the data to respective DEV and QA Oracle database before doing code roll-out.
* Utilized SQL Developer and Toad for PL/SQL, database updates, and row/column data tracking during testing.
* Generated Perl & UNIX scripts for build activities in QA, Staging and Production environments.
* Used tracking tool JIRA and triaged the issues and maintained bugs using JIRA tool.
* Work with product development to resolve build-related issues in all projects.
* Used to write an install script in Ruby using all the extra helper functions from Chef.
* Configured the user's accounts for Continuous Integration - Jenkins, Nexus and Sonar.

**Environment :** Solaris, Linux, Eclipse, Java, SQL, Python, Apache Kafka, Cloud Foundry, NT Command Shell, Java/J2EE, ANT, XL deploy and release, Bamboo, Chef, Puppet, ClearCase, JIRA, XML, Jenkins.

**Education Details:-**

* Master’s in Computer Science from Northwestern Polytechnic University.
* Bachelor of Engineering in Information Technology from Vathsalya Institute of Science and Technology.