**RAMU M**

**DevOps Engineer**

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**PROFESSIONAL SUMMARY:**

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* **3.4 years** of experience in IT industry comprising of Development, Build/Release Management and Change/Incident Management performing duties such as monitoring, automation, deployment, documenting, and support and troubleshooting.
* Expertise in **installation, administration, configuration, performance tuning** and **troubleshooting of Red Hat Linux** and **Windows**.
* Expertise in Amazon **AWS Cloud Administration** which includes services like: **EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Route 53, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, Security Groups.**
* Experience in cloud stack such as **AWS** (Cloud formation).
* Good Exposure on Virtualization and **Containers (Dockers).**
* Ability to build deployment, build scripts and automated solutions using scripting languages such as **Shell scripting (Bash)**.
* Experience working with build and deployment tools
* Worked on various Configuration Management Tools like Ansible
* Worked on web servers like Apache and application servers like Tomcat to deploy code.
* Extensively worked on **Jenkins** by installing, configuring and maintaining for **continuous integration (CI)** and for End to End automation for all build and deployments.
* Good knowledge in **CI (Continuous Integration) and CD (Continuous Deployment)** methodologies.
* Closely worked with Developers and Analysts to address project requirements. Able to effectively manage time and prioritize multiple projects.
* Excellent communication, team membership and relationship management skills.

**Technical Skills:**

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| **Operating Systems** | Linux, Windows |
| **Languages** | Python, SHELL. |
| **Cloud Services** | **Amazon Web Services:** EC2, S3, ELB, Auto scaling, Elastic Beanstalk, Cloud Front, Cloud Formation, RDS, DMS, Route 53, Cloud watch, AWS Kinesis, Cloud trail, IAM, SNS and VPC. |
| **Databases** | MySQL, Oracle |
| **Version Control Tools** | Git, GitHub, Bitbucket, SVN and CVS. |
| **DevOps Tools** | CI/CD, Jenkins, Ansible, Terraform, Confluence, Nexus and SonarQube. |
| **Build Tool** | Ant, Maven and Gradle. |
| **Container Management tools** | Docker and Kubernetes |
| **Application/Webservers** | Apache, NGINX and Tomcat. |
| **Monitoring Tools** | Nagios, Kibana, Grafana, New relic and Splunk. |

**PROFESSIONAL EXPERIENCE:**

**Working as Devops Engineer in Eonian Technologies from September 2017 to TillDate.**

**Project : 1**

**Comerica Bank, Auburn Hills MI**

**Cloud Solutions/DevOps Engineer**

**Description:** Worked as a cloud engineer migrating multiple PCI applications from on-premise to AWS using both automated scripts and manual provisioning and configuration

**Responsibilities:**

* Responsible for Deployment Automation using multiple tools Jenkins and GIT on AWS. Worked at optimizing Volumes, EC2 instances and created multiple VPC instances.
* Used Terraform to provision AWS resources such as EC2, S3, VPC, etc.
* Perform research on AWS resources or tools to recommend to clients. Utilize AWS calculator to produce a budget for a project on AWS.
* Analyze and Evaluate Existing Architecture, Design and Configure a complex Network architecture on AWS Cloud.
* Migrate on premises applications to the cloud.
* Creating Amazon Workspaces for Development team to do all their DevOps work and administrating them.
* Role of a Trusted Advisor in implementing the best solutions and best practice in AWS.
* Interacting with clients to assist in setup of Virtual Private Networks across departments with strong Network ACLs, Security Groups and Firewall policies at both the Subnet and the Instance OS level.
* Designing a Back-up solution and Disaster recovery in AWS Implementing a Continuous delivery framework using Jenkins and Maven as tools.
* Analyzing client requirements, build cost effective, high available and scalable server architecture.
* Coordinate/assist developers with establishing and applying appropriate branching, labeling/naming conventions using SVN and GIT source control.
* Written Maven build tools for application layer modules on AWS EC2 instances.
* Utilize Amazon Glacier for archiving data, developed Scripts for AWS Orchestration.
* Installed, configured and maintained web servers like HTTP Web Server and Apache Web Server on RedHat Linux.
* Configured plugins for the integration tools to the version control tools like GIT and SVN.
* Designed highly available, cost effective and fault tolerant systems using multiple EC2 instances and Auto Scaling.
* Manage configuration of Web App and Deploy to AWS cloud server.
* Experience in CI and CD with Jenkins on AWS cloud servers.

**Environments**: AWS, S3, EBS, Elastic Load balancer (ELB), Auto Scaling groups, VPC, IAM, Cloud Watch, Glacier, Jenkins, Maven, Subversion, Bash Scripts, GIT and Dockers in Linux environment.

**Project: 2**

**Client: FedEx**, **Collierville, TN**

**Role: AWS Cloud Admin**

**Description:** FedEx is a package shipping company. The role was to provision infrastructure in the cloud and administer resources, configure and update. The collaboration between various teams on different projects was crucial.

**Responsibilities:**

* Involved in designing and deploying a multitude application utilizing almost all of the AWS stack (Including EC2, Route53, S3, RDS, SNS, SQS, IAM) focusing on high-availability, fault tolerance, and auto-scaling.
* Migrated the current Linux environment to AWS/RHEL Linux environment and used the auto-scaling feature.
* Increased EBS backed volume storage capacity when the root volume nearing capacity through AWS EBS Volume feature.
* Deployed and supported Memcached-AWS Elasticache.Worked with GitHub repositories.
* Created S3 backups with versioning and automated moving objects to Amazon Glacier for archiving purpose.
* Created load balancers (ELB) and used Route53 with failover and latency options for high availability and fault tolerance. Created AWS Route53 to route traffic between different regions.
* Configured Security group for EC2 Window and Linux instances. Experience with monitoring tools such as Cloud Watch.

**Environment:** AWS, S3, EBS, Elastic Load Balancer (ELB), auto scaling groups (ASG), VPC, IAM, Cloud Watch, Glacier, RDS, Route53

**Project: 3**

**Client: Brinks Inc, Coppell-Texas**

**Role: AWS DevOps Engineer**

**Responsibilies:**

* Worked in infrastructure development on AWS Cloud, extensive usage of Virtual Private Cloud (VPC), Cloud Formation, Lambda, Cloud Front, Cloud Watch, IAM, EBS, Security Group, Auto Scaling, Dynamo DB, Route53, and Cloud Trail.
* Supported AWS Cloud environment creating instances configured Elastic IP and Elastic storage deployed in multiple Availability Zones for high availability.
* Used Cloud Watch for monitoring the server's (AWS EC2 Instances) CPU utilization and system memory.
* Designed infrastructure as a Code (IaC) for AWS application and workflow using Automation Terraform and had done implementation and continuous delivery of AWS infrastructure using Terraform.
* Worked on setting up AWS-VPC, creating AWS EC2 and launching AWS EC2 instances on diverse types of private and public subnets based on the requirements of the applications.
* Developed Python scripts to take backup of EBS volumes using AWS Lambda and Cloud Watch.
* Implemented the AWS Cost budget notifications environment wise by using python with Lambda functions and SNS notification service.
* automated various infrastructure activities like Continuous Deployment, Application Server setup, stack monitoring using Ansible playbooks and has Integrated Ansible with Jenkins.
* Manage the configurations of all the servers using Ansible; configured Jenkins builds for continuous integration and Continuous delivery (CI/CD) Automated web server content deployments via shell scripts.
* Coordinate with client/design/dev/testing and performance teams for Continuous integration (CI/CD)
* Configured SSH, SMTP, Build Tools, and Source Control repositories in Jenkins. Installed multiple plugins to Jenkins. Configured Proxy to get auto updates.
* Implementing a Continuous delivery pipeline with Docker, Jenkins and GitHub.
* Managed Docker orchestration and Docker containerization using Kubernetes
* Automated builds using Maven and scheduled automated nightly builds using Jenkins. Built Jenkins pipeline to drive all microservices builds out to the Docker registry and then deployed to Kubernetes.
* Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker.
* Used AWS Beanstalk for deploying and scaling web applications and services developed with Python.
* Involved in deployment of test environment on Docker containers and configuring the Docker containers using Kubernetes.
* Used MySQL, DynamoDB and Elastic Cache to perform basic database administration.
* Developed multiple AWS services that have API’s available for use. Implemented the functionality of EC2 API’s and DynamoDB API’s in depth through AWS CLI.

**Environment:**EC2, ELB, ECS, EKS, Cloud Front, Cloud Formation, Cloud Watch, Route 53, Redshift, Lambda, Dynamo DB, Terraform, Jira, Ansible, Maven, Bash scripts, VPC, Cloud Trail, IAM, WAF, S3, Elastic Search, SNS, SQS, JFrogArtifactory.