**Ramesh Kumar**

**Sr.AWS/DevOps Engineer**

**Phone: 301- 686-7741**

**Gmail:** [**rameshsamba09@gmail.com**](mailto:rameshsamba09@gmail.com)

**PROFESSIONAL SUMMARY:**

* Around 8 Years of IT Experience in which Cloud Devops, build and release engineer and implementation of Devops strategy in various environments of Linux and Windows 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, Cloud Formation, IAM, SNS.
* Experience in using version controller tools like Subversion (SVN), GIT, IBM Clear case UCM.
* Extensively worked on Hudson and Jenkins for continuous integration and for End-to-End automation for all Build and deployments.
* Worked on creating the module driven AWS infrastructure with Terraform.
* Experience with container-based deployments using Docker, working with Docker images, Docker hub and Docker registries, installation and configuring Kubernetes and clustering them.
* Experience in working with Cloud platforms – Service Now Amazon AWS
* Worked on setting up the life cycle policies to back the data from AWS S3 to AWS Glacier
* Worked with various AWS EC2 and S3 CLI tools
* Designed and created multiple deployment strategies using CI/CD Pipelines using Jenkins.
* Experience with Red hat Linux, configuration management using Puppet and Chef. Support as part of Devops team to help deployment using Jenkins Hudson Bamboo and Teamcity.
* Working experience on version control systems like SVN and Git, Strong troubleshooting skills and system methodologies to analyzes faults and runs diagnostic tests on OS and software stacks.
* Developed build scripts using MAVEN as the build tool for the creation of the build artifacts like war
* Experienced in migrating source code repositories from between various version control systems like SVN to Git.
* Extensively worked on several build tools like ANT and Maven.
* Experience in using GIT and Rational Clear Case on UNIX and Windows environment.
* Implemented Continuous Integration and Continuous deployment using various CI Tools like Jenkins, Hudson, Bamboo, Chef, Puppet and Son type Nexus.
* Experience with administrative tasks with CI tools like maintaining configurations and backups and maintain high availability.
* Expertise in Querying RDBMS such as Oracle, PL/SQL and MY SQL by using SQL for Data integrity.Excellent knowledge on Java/J2EE and also the ability of developing XML, HTML, Shell Scripts and Perl Scripts.
* Efficient in working closely with core product teams to ensure high quality and timely delivery of builds.
* Excellent experience in documenting and automating the build and release process.
* Conduct systems design, feasibility and cost studies and recommend cost-effective cloud solutions such as Amazon Web Services.
* Well versed in managing source code repositories like SVN, Git, GitHub, bit bucket.
* Expertisein various Amazon services like EC2, VPC, ELB, EBS, EFS, Volumes and Snapshots.
* Demonstrated ability in installation, configuration and management of provision tools chef, Puppet and Ansible
* Experience in running web scale services on Amazon Web Services.

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| **Programming Languages** | C, C++, Java, .Net |
| **Databases** | SQL, Oracle, SQL Server, DB2 |
| **Web Technologies** | HTML, XML, WSDL, XSD, XSL, XPATH. |
| **Operating Systems** | UNIX, Linux, Red Hat, Windows, Windows Server. |
| **Scripting Languages** | SHELL, BASH, POWERSHELL, PYTHON, RUBY |
| **Version Control Tools** | CVS, GIT, GITHUB, Perforce, SVN |
| **Application/Webserver** | JBOSS, Oracle Web logic Server 11g, TOMCAT, Apache Tomcat, Oracle Application Server 10g, BEA Web Logic 8.1/9.2, Web Sphere |
| **Build and Release Engineering/ DevOps** | Jenkins, Maven, HUDSON, MS Build, Docker, Bitbucket, ANTHILLPRO, BAMBOO, Cruise Control, Remedy, Vagrant, Puppet, AWS, Nagios, Hudson, Terraform, Chef, Ant, Ansible. |
| **AWS Services** | EC2, S3, EBS, ELB, UPC, IGW, RDS, ADC. |

**WORK EXPERIENCE:**

**Client: RTI International-Durham, NC Oct 2017 to till date**

**Sr.AWS/DevOps Engineer**

**Responsibilities:**

* Created best practices for branching & Merging Strategy to maintain the source code in the Git Version Control Systems.
* Administered the automatic build process to ensure correct build execution and resolved the build issues.
* Worked with the development teams to resolve the build failures.
* Administered and managed Artifactory Repository.
* Build release of Cloud based products containing Linux and Windows environments, using Python Scripting.
* Used the continuous Integration tools such as Jenkins and Hudson for automating the build processes.
* Configured AWS IAM and Security Group in Public and Private Subnets in VPC and created AWS Route53 to route traffic between different regions.
* Worked closely with developers, other stakeholders to streamline CI/CD/CM processes and daily issues.
* Created and wrote Shell scripts (Bash), Python and PowerShell for automating environment builds.
* Configured Elastic Load Balancers (ELB) with EC2 Auto scaling groups. Created monitors, alarms and notifications for EC2 hosts using Cloud Watch.
* Worked with Ansible Tower to manage multiple nodes and manage inventory for different environments and developed python modules for Ansible customizations and Communication with team members for both Ansible Core and Ansible Tower teams to clarify requirements and overcome obstacles.
* Responsible for Continuous Integration (CI) and Continuous Delivery (CD) process implementation using Jenkins along with Shell scripts to automate routine jobs.
* Used Amazon RDS, EC2, SES, SQS, SNS and Cassandra in multiple virtual and physical data-centers to ensure the system was redundant and scalable.
* Hosted Static websites for organization purpose which servers the static content which is stored in S3 buckets.
* Used Amazon Route53 to manage DNS zones and give public DNS names to elastic load balancers.
* Create automation and deployment templates for Relational and NoSQL databases includingSQL, MySQL, Cassandra and MongoDB in AWS.
* Deployed Kubernetes clusters on top of Amazon EC2 Instances using KOPS and Managed local deployments in Kubernetes, creating local cluster and deploying application containers and building/maintaining Docker container clusters managed by Kubernetes and deployed Kubernetes using HELM Charts.
* Analyzed frequently occurring system breaks and automated fixes with repetitive tasks using Bash and Python/UNIX scripts and also used to send notifications after each deployment.
* Designed and developed Shell scripts also wrote scripts for provision of infrastructure management using Terraform.
* Created multiple Terraform modules to manage configurations, applications, services and automate installation.
* Responsible for creating documentation of the Terraform infrastructure in Confluence and used Terraform to manage the AWS and other cloud infrastructure and managed servers using configuration management tools like Chef or Puppet.
* 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.
* Worked on creating Docker Containers and Docker consoles for managing the application life cycle.
* Designed and Developed Jenkins Builds deployments on Docker containers.
* Implemented a centralized logging system using log stash configured as anELK Stack (Elastic search, Log stash, and Kibana) to monitor system logs, AWS Cloud Watch, VPC Flow logs, changes in S3 etc.
* Using JSON Templates we are creating all Tiers/Nodes Dashboards and importing to controllers.
* We used RESTful API's of Elastic Search to analyses, search and visualize real-time data
* Develop/capture/document architectural best practices for building systems on AWS.
* Automated the build and release management process including monitoring changes between releases.

**Environment:** Cloud AWS, Ansible, Jenikins, Docker,Python, Terraform, JAVA, GIT, GITHUB, Apache Tomcat, PowerShell, Linux, Windows,Atlassian, JIRA, Confluence.

**Client:Farmers Insurance Group woodland hills, CA Aug 2016 to Sep 2017**  
**Sr.AWS/DevOps Engineer**

**Responsibilities:**

* Implemented AWS solutions using EC2, S3, RDS, EBS, EMR, Elastic Load Balancer, Auto scaling groups, Optimized volumes and EC2 instances.
* Develop Cloud Formation scripts to provision EC2 instances
* Set-up databases in AWS using RDS, storage using S3bucket and configuring instance backups to S3 bucket
* Design EC2instance architecture to meet high availability application architecture and security parameters
* Worked with IAM service creating new IAM users & groups, defining roles and policies and Identity providers
* Working on Multiple AWS instances, set the security groups, Elastic Load Balancer and AMIs, Auto scaling to design cost effective, fault tolerant and highly availability systems.
* Configuration management and deployments using Chef server with understanding of Knife and Chef Bootstrap process etc and writing Terraform templates, Chef cookbooks, recipes and pushed them onto ChefServer for configuring EC2instances.
* Administering the Linux System & Middleware for the day to day phenomenon and administration of Red Hat Enterprise Linux which includes installation, testing, tuning, upgrading and loading patches, troubleshooting server issues.
* Worked on Amazon ECS for the Docker container Orchestration.
* Involved in implementing deployments into AWS EC2 with the help of Terraform.
* Used AWS lambda to run servers without managing them and to trigger to run code by S3 and SNS.
* Implemented and maintained the monitoring and alerting of production and corporate servers/storage using AWS Cloud watch.
* Deployed the Docker containers in kubernetes cluster and AWS ECS for the different projects.
* Integrated Jenkins with different code quality analysis and Review tools like Sonarqube, Jacoco.
* Experience in creating deployment tool uDeploy Environment.
* Implemented a continuous deployment(CD) framework that automates the software delivery process from source code checking to deployment onto Application servers.
* Deploy, scale web applications and services developed with Java, Python, Ruby and Docker on familiar servers like Apache with the help of AWS Beanstalk.
* Executed the modules using scripting languages like python, shell, bash in Ansible.
* Executed a Continuous Delivery pipeline with Docker, Jenkins, GitHub and AWS AMI's, results in generating of new docker container whenever a new GitHub branch get started.
* Experience in writing Docker and Kubernetes files to build the micro-service applications.
* Managed Artifactory repository for the current project created a new repository and provisioned it.
* Good understanding of build and deployment of Java/J2EE, EAR applications and packages in Tomcat, IBM WebSphere servers.
* Deployed the applications to WebSphere Application Server 5.0 and static content to apache web servers.
* Using Kubernetes logging separated master and data elastic search nodes into their own pods And ELK paas components into their own Ansible roles.

**Environment:** AWS, Bitbucket, Shell, Docker, RHEL, Python,Linux, RESTFUL, ANT/Maven, JUnit, Jenkins,uDeploy, WebSphere Application Server Network Deployment, IBM HTTP Servers, Jboss, Tomcat, Nagios, Shell Scripting,Xml, Java, J2EE Applications.

**Client: Med impact Healthcare Systems,San Diego, CA  Jan 2015 to Jul 2016**

**DevOps Engineer**

**Responsibilities:**

* Designed and implemented fully automated server build management, monitoring and deployment solutions spanning multiple platforms, tools and technologies including Jenkins Nodes/Agent, SSH, Amazon EC2 etc.
* Created the naming strategy for branches and labels and involved continuous integration system with GIT version control repository and continually build as the check-in's come from the developer.
* Automated the regular tasks in Subversion and streamlining the process of access to SVN.
* Built Continuous Integration environment (Jenkins, Nexus). And Continuous delivery environment (Puppet, Yum)
* Using Kubernetes logging separated master and data elastic search nodes into their own pods And ELK paas components into their own Ansible roles.
* Strengthened security by implementing and maintaining Network Address Translation in company's network
* Supported small to medium sized projects using GIT
* Worked on integrating GIT into the continuous Integration (CI) environment along with Anthill-Pro, Jenkins
* Developed a continuous deployment pipeline using Jenkins, Ruby/shell scripts.
* Supported Local System Administrators to troubleshoot Configuration Management and Network issues.
* Analyzed and recommended hardware and software needs and installed them.
* Created and maintained continuous build and continuous integration environments in SCRUM and Agile projects.

**Environment:** SVN, Jira, Maven, ANT, Kubernetes,Jenkins, Puppet, UNIX Shell Scripting, Open Stack, JBoss Application Servers, Anthill Pro, SGIT, AWS.

**Client: AT&T - Austin, TX Nov 2012 to Dec 2014**

**Build and release engineer**

**Responsibilities:**

* Participated in the release cycle of the product, which involves environments like Development test and Production environment.
* Used Perforce for Software Configuration management and maintaining the versions of Website Code.
* Performed biweekly build cycle and testing processes on Solaris.
* Dockerized CI/CD tools (JENKINS and GITlab).
* Pager Duty to monitoring CI/CD tools and resolve critical issues proactively to manage uptime.
* Developed UNIX and Perl Scripts for the purpose of manual deployment of the code to the different environments and E-mail the team when the build is completed.
* Deployed the code from Development environment to other environments like UAT and production Environments.
* Zabbix for CI/CD tools monitoring.
* Deployed application modules to WAS 6.0 based clusters via ND admin console
* Executed the database Scripts that have dependencies on the code on Oracle database.
* Documented the deployment process (Migration Doc) of code to production using MS Excel.
* Edited and Modified POM.xml for a few applications that used Maven.
* Used Ant scripts to perform the builds and wrote a few build xml for application development teams.
* Integrated automated build in Jenkins/Hudson.
* Monitor application resources and patch when needed.
* Responsible for the installation of CentOS Linux for new build environment in Virtual Box. Managing all types of installation and upgrade on Linux servers, Installed and maintained CentOS and Linux Red Hat Servers.
* Diagnosed and resolved customer's connectivity issues in RHEL 5& 6 servers.

**Environment:** Subversion, Jboss, Apache, ANT, XML, Maven, jerkins, Anthill pro, Shell Script, Remedy.

**Client: Contenterra Software Private Ltd – HYD Jun 2011 to Sep 2012**

**Linux Administrator**

**Responsibilities:**

* Extensively worked on BEA Web Logic 8i/9i Server, JBoss EAP 4.x/5.x/6.x Server, Apache HTTP and Apache Tomcat 6.x/7.x/8.x Server as an Administrator for Server Installations, Configuration, deployment, Performance, tuning including troubleshooting and maintenance.
* Performed OS installations, OS Upgrades, and Server Patching by configuring PXE and DHCP server using Kickstart Configuration and by using Red Hat Satellite server.
* Responsible for configuring and connection to SSH through SSH clients like Putty Remotely coping files using SFTP, FTP, SCP, WinScp, and FileZilla.
* Troubleshooting the network with the help of net stat, ping, nslookup and trace route tools.
* Maintaining the Linux Firewall for network and implement to the network security.
* Installs, upgrades and manages packages via RPM and YUM package management.
* Installs Firmware Upgrades, kernel patches, systems configuration, performance tuning on Unix/Linux systems.
* Designed, tested and deployed VMware View VDI desktop support for internal & external end-users.

**Environment:** Redhat Linux 5/6.x,TCP/IP,UNIX/LINUX,Oracle10g,Kernel,Windows, TCP/IP, GIT, Hudson, Java, Ant, WebLogic Server 11g, RAID, Shell, Python, Web Sphere, Load Balancers, WLST, Apache Tomcat 5.5.