**Sreeram**

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**DevOps Engineer**

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**PROFESSIONAL SUMMARY**

* DevOps automation engineer & CI/CD (Continuous Integration/Continuous Deployment) engineer with around 7 years of solid experience in working on DevOps/Agile operations process and as Developer around tools (Code review, unit test automation, Build & Release automation, Environment Management)
* Well Versed in building and deploying applications on to different environment such a QA, UAT and productions
* Extensive experience and understanding in all phases of Software Development Life Cycle.
* Experience with Shell and Ruby, MySQL, Apache Cloud Stack, configuration management (Puppet, Chef and Ansible)
* Automated several processes by developing utilities in Shell and Python scripting
* Competent extent of skills on DevOps essential tools like Chef, Puppet, Ansible, Docker, Subversion, Git, Jenkins, Ant, Maven.
* Responsible for on boarding application teams to build and deploy their code using GitHub, Jenkins and Ansible
* Set-up CI/CD pipelines with Jenkins and hands on experience in building freestyle projects, pipeline, multi branch pipeline Jobs through Jenkins file.
* Implemented and maintained central repositories and implemented Atlassian stash along with GIT to host GIT central repositories for source code across products, facilitate code reviews and log audits for security compliance
* Defined dependencies and plugins in Maven pom.xml for various activities and integrated Maven with GIT to manage and deploy project related tags
* Authorized pom.xml, build.xml files performing releases with the Maven, ANT release plugin, and managing artifacts
* Managed Maven environment by setting up local, remote and central repositories with required configuration in maven configuration files
* Experience with containerization using Docker, generation of Docker images from Docker file
* Well experienced on using Kubernetes/Rancher and Docker for the runtime environment for the CI/CD system to build, test and deploy.
* Worked on Kubernetes system to automate deployment, scaling and management of mobile and web containerized applications
* Rich hands-on in Jenkins - installing, configuring and maintaining for continuous integration (CI) and for automation of all build and deployments
* Expertise in using Ansible to manage Web Applications, Config Files, Data Base, Commands, Users Mount Points, and Packages. Ansible to assist in building automation policies
* Maintained high availability cluster and standalone server environment and refined automation components with scripting and configuration management (Ansible) and experienced in writing Ansible scripts
* Knowledge in load balancing and setting up load balancer and firewall rules in and enterprise environment
* Authored chef cookbook and recipes to automate the deployment process and to integrating chef cookbooks into Jenkins jobs for a continuous delivery framework
* Profound experience in Configuring and management of cloud Infrastructure using Amazon Web Services (AWS) including EC2, Auto Scaling, EBS, Elastic Beanstalk, S3, Cloud Front, RDS, VPC, Route 53, Elastic Load Balancer, Cloud Watch, Cloud Formation, SNS, IAM and SES
* Management of AWS storage infrastructure systems and configuring cloud platform such as virtual network multi-site, cross-site, VM's, AWS Active Directory, Elastic Load Balancers
* Optimized volumes and EC2 instances, setting up Security groups & Created multi AZ VPC instances
* Performed Capacity planning & Performance Analysis, Uptime & Response time analysis
* Creating and Managing virtual machines in AWS and setting up the communication with the help of endpoints and updating the instance counts in the production
* Experience in Installing, Configuring and Administration of Windows, Red Hat Linux, Unix, CentOS and VMware Environments
* Production support on Linux Systems in a 24/7 production Environment to maintain all servers and applications
* Ample knowledge in using Tomcat, JBOSS, WebLogic and WebSphere Application servers for deployments
* Expertise in Scrum Methodologies such as Agile and Waterfall methods, software development lifecycle management, continuous integration, build and release management and managed environments
* Experience with Oracle and MS SQL Server DB Tasks (DML, DDL Executions, Log Rotations, Table space adjustments, client administration and so forth.)
* Exposure to Remedy, ALM, JIRA tracking tools for tracking defects and changes for Change Management

**TECHNICAL SKILLS**

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| --- | --- |
| Operating Systems | Linux, WINDOWS, Unix |
| Cloud Tools and Technologies | Amazon Web Services (AWS): EC2, ECS, S3, ELB, Auto scaling, KMS, Elastic Beanstalk, Cloud Front, Cloud Formation, Elastic Filesystem, RDS, DMS, VPC, Direct Connect, Route 53, Cloud trail, IAM, SNS, SQS, Lambda, Azure |
| Languages | C, XML, SHELL, PYTHON, RUBY, YAML |
| Databases | MySQL, Oracle, Mongo DB, PL/SQL |
| Artifactory Repositories | Nexus, JFrog Artifactory |
| CM Tools | Ansible, Chef, Puppet |
| Web/Application Servers | Tomcat, JBoss, WebSphere, WebLogic |
| Build Tools | Ant, Maven, Gradle |
| CI Tools | Jenkins, Bamboo |
| Automation container | Docker, Kubernetes, Rancher, OpenShift |
| SCM Tools | GIT, Bitbucket, Subversion |
| Bug Reporting Tools | JIRA, HP-ALM. |
| Monitoring Tools | Splunk, Nagios, AWS CloudWatch, Prometheus |
| Methodologies | Agile/Scrum, Waterfall |

**EXPERIENCE**

**TriNet USA Inc, Austin, TX June 2018 – Till date**

**Role: DevOps Engineer**

**Responsibilities:**

* Created Infrastructure as Code (IAC) using AWS CloudFormation templates from the ground up in YAML/JSON for creating DevOps CI/CD pipelines on AWS, AWS S3 buckets, AWS Lambda, AWS Cognito for authentication of the web application.
* Worked on continuous integration on Jenkins, maven, Git for Amazon EC2 deployment instances on cloud computing.
* Created AWS CloudFormation templates to automatically deploy code on to serverless services like AWS Lambda from a CI/CD pipeline.
* Provisioned cloud resources like AWS S3 buckets, AWS Lambda, AWS API Gateway, CodeBuild, CodePipeline using Terraform Infrastructure as Code (IAC) tool.
* Reduced time to release features by creating efficient DevOps CI/CD pipelines on AWS using AWS services such as AWS CodeBuild, AWS CodePipeline from source code hosted on GitHub.
* Configured and maintained Maven for automated build and release.
* Used Terraform Infrastructure as Code (IAC) tool to provision different cloud provider resources etc.
* Stored secrets like API keys and tokens using HashiCorp tools like Vault and AWS Parameter Store etc.
* Configured Amazon EC2 instances and launching the new instances with same configuration using AMIs.
* Automated the entire build and deployment process using Jenkins for Continuous Integration, and documented the process.
* Automated installing the Linux packages and administering Linux service using Ansible, and automating product installation configuration.
* Worked with various application teams about application secret management using HashiCorp stack like Vault, and Consul, Vagrant, Nomad etc
* Migrated various technology stack applications of Java, Microsoft C# .NET, Web API to the cloud using AWS CloudFormation templates.
* Leveraged API’s and created dashboards in Grafana for application and infrastructure analytics purposes.
* Used SCM tools like GitHub, Git, Bitbucket, Gitlab, TFS- Team Foundation Server for storing source code across various developers for various applications as repos.
* Have experience with Cisco ASA Firewalls, Palo Alto Firewalls and WAF- Web Application Firewalls for protecting network traffic.
* Troubleshoot issues on AWS like IAM issues, roles and policies, lambda issues etc.
* Experience with server management where I provisioned, configured and managed AWS EC2 servers, Linux servers and Windows servers, VMWare, Hyper-V etc.
* Worked with various applications teams in deploying C# .NET code using Jenkins, UrbanCode uDeploy.
* Writing Ansible Playbooks using different AWS modules to create the resources on the AWS cloud.
* Worked in Branching, Merging, Tagging and maintaining the version across the. environments using SCM tools like GIT on Linux platforms
* Executed tests across different browsers such as Chrome, Firefox using Selenium WebDriver automation testing frameworks.
* Experience with CI/CD tools like Jenkins, Bamboo, Gitlab CI/CD tools for automating the pipeline.
* Used Ansible to document all infrastructures into version control and Used Ansible to document application dependencies into version control
* Experience with Performance testing tools like Apache JMeter for performing load testing of Java applications.
* Experience with automation testing frameworks such as Selenium for testing java, C# applications etc.
* Provisioned EC2 instances of different types by creating security groups and managing EBS volumes
* Configured Splunk to monitor EC2 Linux instances with Ansible automation.
* Used Cucumber testing framework for Behavior Driven Development (BDD) approach.
* Wrote PowerShell scripts for deploying DotNet (.NET) code to hypervisors like VMWare, Hyper-V, using various CI/CD tools.
* Configured Clusters, Server groups and Cloning for improved availability and failover capacity.
* Worked on Auto Scaling for providing high availability of applications and EC2 instances based on the load of applications by using CloudWatch in AWS.
* Strong comprehension of central advancements like DNS, Load Balancing, SSL, TCP/IP, systems administration and security best practices
* Worked with SQL databases on-premise and on the cloud etc.
* Created alarms and trigger points in Cloud Watch based on thresholds and monitored the server’s performance, CPU Utilization, disk usage.
* Restricted user access permissions through IAM by creating roles, groups and there by attaching required Policies.
* Deploying and managing many servers utilizing both traditional and cloud oriented providers (Azure) with the Chef Platform configuration system.
* Provide support for the entire cycle of application testing including building applications, deploying, and trouble shooting.
* Responsible for contributing reasonable changes in the lead retrospective meetings and training on the usage of JIRA tool to track the changes.
* Setup up and maintenance of automated environment using Chef Recipes& cookbooks within Azure environment.
* Implemented a CD pipeline with Docker, Jenkins, GitHub, Ansible and AWS AMI's
* Created Docker images using a Docker file, worked on Docker container snapshots, removing images and managing Docker volumes
* Provisioned AWS RDS databases with MySQL and PostgreSQL and took automatic snapshots of databases etc.
* Written Docker files to build custom Docker images and used Docker Hub, Docker registry to manage the images
* Provided high availability for IaaS VMs and PaaS role instances for access from other services in the VNet with Azure Internal Load Balancer
* Generated Docker files to build Docker images and leveraged Docker containers in Kubernetes.
* Collaborated with development support teams to setup a continuous delivery environment with the use of Docker.
* Tested procedures to unify streamline and automate applications development and deployment. Procedures with Linux container technology using Kubernetes.

**Environment**: AWS (EC2, S3, IAM, ELB, Auto scaling) GIT, Jenkins, Maven, JIRA, Java, Docker, Ansible.

**Fifth Third Bank, Cincinnati, OH Jan 2017 – May 2018**

**Role: DevOps Engineer/Consultant**

**Responsibilities:**

* Build and Deployment of the java applications on diverse environments like Dev, QA, UAT and Prod.
* Installed and configured Jenkins, creation of master and slave nodes to handle multiple builds. Installation of plug-in wherever required for the implementation of those builds.
* Configured Jenkins pipeline for auto deployment through continuous integration (Jar build, AMI creation, Integration test, contract test, performance test, deploy in Test environment and then into Production.
* Configured AWS Identity and Access Management (IAM) to securely manage AWS users & groups and used policies & roles to allow or deny access to AWS resources.
* Worked on configuration and deployment of instances on AWS environment and also familiar with EC2, Cloud watch, Elastic Search and managing security groups on AWS.
* Experience with Gitlab CI/CD tool for automating the CI/CD pipeline.
* Designed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Authored Chef cookbooks for various Database configurations to modularize and optimize end product configuration, converting production support scripts to and AWS server using chef recipes
* Created reusability of modules and modified same Chef Recipes to create a Deployment directly into Amazon EC2 instances.
* Implemented Nagios core for monitoring Infrastructure resources. Set up customized monitoring with Nagios, Nagios Graph for the legacy and new environments
* Experienced in migrate an On-premises Instances or Microsoft Azure Classic Instances to Azure ARM Subscription with Azure Site Recovery
* Utilized Nagios as a monitoring tool to identify and resolve infrastructure problems before they affect critical processes.
* Deployed C# .NET, Java applications using Jenkins CI/CD tool.
* Developed build and deployment scripts using MAVEN as build tools in Jenkins to move from one environment to other environments.
* Involved in the deployment of applications on Web Servers like Apache and Application Servers such as Tomcat and JBoss.
* Used Terraform to provision cloud resources such as Microsoft Azure
* 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.
* Involved in development of test environment on Docker containers and configuring the Docker containers using Kubernetes.
* Used Terraform to provision Microsoft Azure AKS service and deploy a managed Kubernetes cluster
* Setup SCM Polling for Immediate Builds with Maven and Maven Repository (Nexus Artifactory) by installing Jenkins Plugins for GIT Repository.
* Worked on GitHub as a Web-based Git repository hosting service. It offers all the distributed revision control and source code management (SCM) functionality.
* Created Jobs in Jenkins and set up global permission and scheduling jobs in pole SCM.
* 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.
* Managing all aspects of the software configuration management process including code compilation, packaging / release methodology, and application configurations.
* Worked on Maven to create artifacts from source code and deploy them in Nexus central repository for internal deployment.
* Designed and scripting using ANT & MAVEN for (J2EE, Web Services, Reusable JARS, Web Client and Open Source) in creating MasterBuild.xml & Pom.xml files and provided technical support to development team for compilation problems.
* Installed and configured code rules, keys of Sonar for code analysis and created of SonarQube dashboards for different team members based on their roles to monitor the progress of project source code.
* Worked on upstream and downstream projects in Jenkins, once Prod build is success it triggers the downstream Pub, Stage, Mobile Juicer and Desktop Juicer automatically.
* Used WebLogic as the application server for the purpose of deployment of Production & Staging ear/war.

**Environment**: AWS (EC2, S3, IAM, ELB, Auto scaling, Cloud watch, NAT) GIT, NEXUS, Jenkins, Maven, Java, TOMCAT, JBoss, Ansible.

**Centene Corporation, St Louis, MO Nov 2014 – Dec 2016**

**Role: DevOps Engineer**

**Responsibilities:**

* Release Engineer for a team that involved different development teams and multiple simultaneous software releases.
* Designing and implementing for fully automated server build management, monitoring and deployment By Using DevOps Technologies like Chef.
* Used Docker Container to package an application.
* Responsible for design and maintenance of the Subversion/GIT, Stash Repositories, views, and the access control strategies.
* Deployment and management of many servers via script and chef, utilizing cloud providers as a direct substrate for implementation.
* Used ANT and Python scripts to automate the Build and deployment process.  Used maven for few modules.
* Launching Amazon EC2 cloud instances using Amazon Machine Images for AWS cloud.
* Monitoring each service deployment, and validating the services across all environments.
* Deployed J2EE applications to Application servers in an agile continuous integration environment and also automated the whole process. Build scripts using ANT and MAVEN build tools in Jenkins, Sonar to move from one environment to other environments.
* As a Release Engineer, supported multiple teams for multiple applications including Java/J2EE and iOS.
* Involved in build and deploying SCA modules in IBM Web sphere Process server.
* Worked on Java/J2ee deployments in web sphere.
* Used Maven to build rpms from source code checked out from GIT and Subversion repository, with Jenkins being the Continuous Integration Server and Artifactory as repository manager.
* Maintained two Jenkins servers and one Bamboo server to deploy into production and non-production environments. Migrated Jenkins plans from one of the Jenkins to Bamboo.
* Identify Configuration Items (CI) and document their characteristics. After every deployment, delivered the Release notes on Confluence site.
* Involved in Setting up the backup server for Jenkins and prepared disaster recovery plans for Jenkins and bamboo.
* Deployed Enterprise Application Archive (EAR), Web Application Archive (WAR), JSP's, and Servlets in staging, production.
* Created and maintained Shell, Python scripts for building applications.
* Prepared Migration logs for every release and maintained the data accuracy.
* Maintained Defect Fix Deployments and documented the deployed files in the appropriate Environment Migration log.
* Worked on Change Order with current release and implement them in the Production.
* Created the Deployment notes along with the Local SCM team and released the Deployment instructions to Application Support.
* Installed and configured Tools for Jenkins Continuous Integration environment from scratch for iOS builds and Deployments.
* Coordinated with external IOS vendors to keep track of development stages.

**Environment:** Java/J2ee, Eclipse, Chef, AWS (Amazon Web Services), Azure, Ant, Maven, Jenkins, GIT, WebSphere Application Server (WAS), Apache, PERL, Python, Ruby, BASH, Windows, UNIX.

**Yash Technologies, India Nov 2012 – July 2014**

**Role: Linux/Unix Admin**

**Responsibilities**-

* Managed and administrated of all UNIX servers, includes **Linux** operating systems by applying relative patches and packages at regular maintenance periods using **Red Hat** Satellite server, YUM, RPM tools.
* Installation, maintenance, managing and regular upgrading of **Red Hat Linux Servers Ubuntu Trust, CentOS, Fedora, Linux** on both standalone and virtual environments.
* Deployed **Red Hat** Satellite server with custom repositories to provide a stable management solution for the **Linux** environment.
* Installation and Configuration of Logical Volume Manager - **LVM** and **Veritas Volume Manager** on and **Red-Hat Linux** Hardware.
* Setup Jumpstart servers for automated installation of **Solaris** and **Kickstart** for **Linux** servers and workstations and set up **NIS**, **NFS** for centralized administration of user account configurations.
* Production support of **Apache, Apache HTTPD, JBoss, Tomcat** and Oracle Web logic 10.3 application servers including installation, configuration, management, and troubleshooting.
* User/group maintenance in both production/development environments. In-house process control initiatives including IT Services Management worked with **LDAP** integration for a single log on.
* Deployed and installed new servers and their appropriate services for various applications in **Linux**.
* Extensive knowledge of Server administration, Kernel upgrade and deployment of patches and applying all firewall and security policies with emphasis on maintaining best practices.
* Strong understanding in writing the automation of processes using the **Shell script** with **Bash** and **Python**.
* Maintain all computer, server, network and wireless hardware.

**Environment:** UNIX, Red Hat, DNS, Yum, Rpm, Ubuntu, Centos, Fedora, Apache, JBoss, Tomcat, Oracle,

WebLogic, kernel, Shell, Bash, Python.

**EDUCATION**

* Master’s degree from University of Missouri – MO.
* Bachelor’s degree in Engineering and Technology – India.