**Sampath Goud**

**AWS/DevOps Engineer**

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**Professional Summary:**

* **AWS** and **DevOps** Engineer with over **8+** years of Strong experience in **Linux Administration, Configuration Management, Continuous Integration, Continuous Deployment, Release Management, Cloud Implementation and DevOps Engineering**.
* Experience with various **DevOps** related tools for the team such as provisioning scripts, deployment tools, and development and staging environments on AWS Cloud and Linux
* Supported .net applications and web services by deploying and troubleshooting in Production and Pre - production environment
* Experience working with **Redhat, Ubuntu, centos** and Windows server.
* Actively managed and hosted different applications like ecommerce stores, **ERP** applications that require scaling.
* Extensively worked on AWS Cloud platform and its services **EC2, VPC, EBS, AMI, RDS, Cloud Watch, Cloud Formation, Auto scaling, Cloud Front, IAM and S3**.
* Created and maintained scalable and secure infrastructure using **EC2 with Elastic load balancing and Auto scaling groups in AWS cloud.**
* End to End solution for hosting the web application on AWS cloud with integration to S3 buckets.
* Experience in deploying application like **Sophos** antivirus, ship works etc. in windows servers.
* Used **JIRA** to keep track of all the ongoing tasks and maintain bug resolutions.
* Understanding of Project Life Cycle Management and strong experience on working of **AGILE** Methodologies.
* Created **IAM** policies for the group level privileges to EC2 instances and **S3** buckets.
* Configured VPCs within the subnet groups and CIDR ranges. Configured inbound and outbound security groups for EC2 instances.
* Good knowledge on **OpenStack** Compute and networking services.
* Experience working with virtualization techniques like **VMWareVSphere** and **Hyper-V**.
* Very good hands on experience in using **GIT** and subversion as a version control tool. Worked on branches, Trunkand tags.
* Expertise in Enterprise repository management tools like **Nexus, Artifactory** etc.
* Hands on experience on **Jenkins, Docker,** for setting up of continuous integration and continuous deployments.
* Used **Kubernetes** to manage containerized applications using its nodes, Config Maps, selector, Services and deployed application containers as Pod.
* Hands-on experience to build the AWS infrastructure resources using the **Terraform** and **Ansible** automation tools and **AWS CLI**, **CloudFormation** templates.
* Experience in managing users and profiles in **Active Directory** and giving appropriate user permissions.
* Experience working with composer, putty, **git** shell and writing shell script.
* Experience in **Python** Scripting in various projects for automating tasks.
* Extensive experience using MAVEN, Gradle and ANT as a Build Tools for the building of deployable artifacts (war & ear) from source code.
* Experience on Cloud innovations including Infrastructure as a Service, Platform as a Service, and Software as a Service supplier (IaaS, PaaS, and SaaS).
* Expertise in building scalable, high performance systems that support entire pre-production lifecycle.
* Build servers using AWS including importing volumes, launching EC2, creating security groups, auto-scaling, load balancers in the defined virtual private connection

**Technical Skills:**

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| **AWS Cloud Tools** | EC2, ECS, ELB, Route 53, IAM, S3, AMI, Cloud Front, RDS, Lambda, Snowball, VPC, Glacier, SQS, EFS, Dynamo DB, Code Deploy |
| **Programming/Scripting Languages** | C, C++, Bash, Shell Scripting, Python, SQL, HTML, CSS JavaScript, YAML, Json, PowerShell |
| **CI/CD Automation** | Jenkins,Anthill Pro, Chef, Puppet |
| **Application Stack** | Java EE, Micro services, NodeJS, AngularJS |
| **Version Control Tools** | Subversion (SVN), GIT, CVS |
| **Web/ Application Server** | Apache Tomcat, WebLogic, WebSphere, JBOSS |
| **Containerization Tools** | Docker, Kubernetes |
| **Database** | Oracle, MySQL, MongoDB, SQL Server |
| **Build/Package Tools** | Maven, Ant, Gradle, Npm, Bower, Grunt |
| **Virtualization/Infrastructure** | VMware, Virtual Box, and Docker, CentOS, RHEL, Ubuntu. |
| **Network Protocols** | TCP/IP, SSH, Telnet, TLS/SSL, DHCP, DNS, HTTP, FTP, TFTP, LDAP, NIS, NIS+ |

**Professional Experience**

**Lazard Freres & Co. LLC, New York, NY Feb 2020 – Present**

**DevOps (AWS) Engineer**

**Roles and Responsibilities:**

* Experience in the design and implementation of Continuous Integration, Continuous Delivery, Continuous Deployment (CI/CD), DevOps tool chain and DevOps processes for agile projects
* Worked with Terraform to create stacks in AWS from the scratch and updated the terraform as per the organization’s requirement on a regular basis
* Used **Terraform** in AWS Virtual Private Cloud to automatically setup and modify settings by interfacing with control layer
* Designed and Implemented **CI (Continuous Integration) system, configuring Jenkins servers, Jenkins nodes, creating required scripts (Perl, Python)**
* Design roles and groups for users and resources using AWS Identity Access Management (**IAM**).
* Used Jenkins for continuous deployment and integration of the build and release process
* Expertise in Querying RDBMS such as **Oracle, MY SQL and SQL** Server by using **PL/SQL** for data integrity.
* Installed and Configured the **Nexus Repository Manager** in Jenkins stage view pipeline
* Worked on migrating legacy data-center infrastructure into AWS infrastructure using **Terraform, AWS-CLI and Cloud formation**
* Working on **Docker-Compose** and **Docker-Machine**.
* Experience with **Docker, ECS, ECR** to handle Docker deployments.
* Created and managed test environment using **Docker, Kubernetes**, initiated instances depending upon development team requirements.
* Utilized **Kubernetes** for the runtime environment of the CI/CD system to build, test and deploy.
* Worked on implementing AWS services like **S3, IAM, VPC, Route53, ELB, EBS, Cloud Front, Glacier, Cloud Watch, SQS, SNS, Cloud Trail, RDS** and creating cloud formation scripts to provision resources
* Implemented a 'server less' architecture using **API Gateway, Lambda, and Dynamo DB and deployed AWS Lambda code from Amazon S3 buckets**. Created a Lambda Deployment function, and configured it to receive events from your S3 bucket
* Provisioned the highly available **EC2** Instances, **RDS SG, RDS, EMR, KMS, Secret Manager, MS-Kafka, S3, using Terraform and cloud formation** and wrote new plugins to support new functionality in Terraform.
* Experienced in writing terraform modules for automation the Creation of VPC-VPN from data center to Prod environment and Cross account VPC Peering
* Installed and Configured the Static Scan in **Veracode** and integrate the stage Veracode in Jenkins Stage view pipeline
* Experience in managing environments **DEV, Stage, QA and UAT** for various releases and designed instance strategies
* Coordinated different teams across the globe to deploy the different build to different environments on parallel development for multiple projects
* Implemented AWS solutions using **EC2, S3, RDS, Elastic Load Balancer, Auto scaling groups.**
* Experience in working on **AppDynamics** includes application topology mapping, “zero-configuration” out of the box functionality, and cloud aware communications approaches in its product
* Analyze and resolve conflicts related to merging of source code for Bit Bucket
* Configured and maintained Jenkins to implement the CI process and integrated the tool for .Net schedule the builds.
* Managed Dependency Management within the teams by installing and configuring Nexus Repository Manager.
* Used JIRA to track issues and Change Management for **Veracode and NexusIQ**
* Notified the developers on success/failure of a build by using **SMTP and LDAP** mailer plug-in in Jenkins
* Participated in Research of the project application architecture to support/resolve build, compile, and test issues/problems.

**Environment:** AWS,Python,EC2, S3, VMware, Tomcat Apache, CloudWatch, CloudFormation, DynamoDB, VPC, IAM, Nagios, Git, JIRA, Linux, Data Centre Migration, Jenkins, NexusIQ, Veracode, Maven, Terraform, VPC, SMTP, LDAP, MSBUILD, ASP.NET, VBScript, VB.NET,CSS, HTML, DHTML, ADO.NET.

**Lumber Liquidators, Richmond,VA Jan 2018 – Jan 2020**

**DevOps (AWS) Engineer**

**Roles and Responsibilities:**

* Worked for DevOps Platform team responsible for specialization areas related to **Chef** for Cloud Automation.
* Application of automations tools like **Chef, Puppet**, DevOps based on the requirements.
* Involved in designing and deploying multitude applications utilizing almost all of the AWS stack (Including **EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM**) focusing on high-availability, fault tolerance, and auto-scaling in AWS Cloud Formation.
* Perform regular security monitoring to identify any possible intrusions.
* Perform daily backup operations, ensuring all required file systems and system data are successfully backed up to the appropriate media, recovery tapes or disks are created, and media is recycled and sent off site as necessary.
* Debugging Chef Recipes and their execution trying to pull logs into Splunk and monitor deployments.
* Designed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Apply OS patches and upgrades on a regular basis, and upgrade administrative tools and utilities. Configure / add new services, as necessary.
* Upgrades Web system by conferring with vendors and services; developing, testing, evaluating, and installing enhancements and new software.
* Used **IAM** to create new accounts, roles and groups and polices.
* Experience in writing Python functions for AWS Lambda using S3 triggers to automate workflow.
* Developed Python scripts to upload and download objects to and from AWS S3 buckets.
* Experience with setting up Chef Infra, bootstrapping nodes, creating and uploading **Chef recipes, Chef node** convergence in **Chef SCM**.
* Profusely worked on Version control tools like Subversion, GIT, clear case to track changes made by different people in source code.
* Implemented AWS solutions using **E2C, S3, RDS, Elastic Load Balancer, Auto-scaling groups**
* Worked on Physical to AWS Cloud Migration and creating alarms and notifications for EC2 instances using Cloud Watch.
* Provisioning AWS through Infrastructure as code. Push button deployment of new environments and version control of existing systems - **Terraforming AWS**.
* Creating Cloud Watch alerts for instances and using them in Auto scaling launch configurations.
* Good experience on Networking in **AWS, VPC** and Data center to Cloud Connectivity, Security Groups, Route Tables and ACL's in AWS.
* Worked on installation of **Docker** using Docker toolbox. Worked on creation of custom Docker container images, tagging and pushing the images.
* Developing customized Ansible playbooks for Amazon Cloud for the defined Infrastructure.
* Create AMIs by using Packer for production usage as part of a continuous delivery pipeline.
* Managed the Maven Repository using Nexus artifactory tool and used the same to share the binary (**EAR, WAR & JAR**) snapshots.
* Worked closely with development team and SQA team for product releases.
* Carried out deployments and builds on various environments using Puppet continuous integration tool. Performed functional testing of **SOAP and RESTFULL** Web Services using SOAP UI Tool.

**Environment:** AWS,Python,EC2, S3, VMware, Tomcat Apache, CloudWatch, CloudFormation, DynamoDB, VPC, IAM, Nagios, Git, Chef, Linux, Data Centre Migration, Jenkins, Maven, VPC, Clear case, Ant, MSBUILD, Ruby, Cruise Control, Hudson, ASP.NET, VBScript, VB.NET, SQL Server 2000, Windows 2000, CSS, HTML, DHTML, ADO.NET, T-SQL, Visual Studio.Net 2003 and Visual Source Saf

**Sei Investments, Oaks,PA Mar 2016– Dec 2017**

**DevOps/AWS Engineer**

**Roles and Responsibilities:**

* Developed and implemented software release management strategies for various applications according to agile process.
* Develop cloud solutions using IaaS (Infrastructure as a Service) and PaaS (Platform as a Service) Responsible for Continuous Integration (CI) and Continuous Delivery (CD) process implementation using Jenkins along with Shell scripts to automate routine jobs.
* Experience with AWS services (**EC2, S3, RDS, EBS, VPC, IAM, Cloud formation, Auto scaling).**
* Provided enhanced security and identity access management (**IAM**) for AWS account.
* Migrate **SVN** repositories to **Git** and administrate GitHub to manage Git repositories.
* Setup and maintain a continuous integration build server using Jenkins. Implemented Backup/Disaster recovery system for entire CI system. Implemented roles and environments using chef.
* Created EC2 instances in VPC and installed applications. Expertise in Identity Access Management. Created users, groups and assigned roles based on their duties.
* Deployed, maintain, troubleshoot, and tune multi-tier, distributed, cloud-based application components.
* Automated the Applications and **MySQL** container deployment in Dockerusing Python and monitoring of these containers using Nagios.
* Wrote **Ansible Playbooks** with Python SSH as the Wrapper to Manage Configurations of AWS Nodes and Test Playbooks on AWS instances using Python
* Wrote the Ansibleplaybooks which are the entry point for Ansible provisioning, where the automation is defined through tasks using YAML format. Run Ansible Scripts to provision Dev servers.
* Installed and administered Nexus repository to deploy the artifacts generated by Maven and to store the dependent jars which are used during the build.
* Used AWS lambda to run servers without managing them and to trigger to run code by S3 and SNS.
* Designed highly available, cost effective and fault tolerant systems using multiple **EC2instances, Auto Scaling, Elastic Load Balance and AMIs and Glacier for QA and UAT environments** as well as infrastructure servers for GIT and Chef.
* Setup and build AWS infrastructure various resources, **VPC EC2, RDB, S3, IAM, EBS, Security Group, Auto Scaling, SES, SNS and RDS in Cloud Formation JSON templates**.
* Install, configure, modify, test & deploy applications on Apache Webserver, Nginx & Tomcat.
* Used python scripts to update the content in database and manipulate files.
* Created and managed cloud **VMs with AWSEC2** command line clients and AWS management console.
* Creation and setup of new environments/branches such as development, testing and production. Worked closely with development team and SQA team for product releases
* Documented work done, skills required and mitigated in future projects.

**Environment:**EC2, Python, S3, RDS, EBS, VPC, IAM, Cloud formation, Auto scaling, AWS,CloudWatch, Amazon Machine Images, Maven, Salt, CentOS.

**Unity Health Care,Milwaukee,WI June 2014 – Feb2016**

**Linux /DevOps**

**Roles and Responsibilities:**

* Maintaining and Troubleshooting of **FTP** Server, Samba Server of the client
* Performed the automation using **Chef** Configuration management and managing the infrastructure environment with **Puppet**.
* Responsible for installation and upgrade of patches and packages on **RHEL** using **RPM**&**YUM**.
* Patching of RHEL5 and Solaris 8, 9, 10 servers for EMC Power path upgrade for VMAX migration.
* Configuration of LVM (Logical Volume Manager) to manage volume group, logical and physical partitions and importing new physical volumes.
* Role required Planning, deploying, monitoring, and maintaining Amazon AWS cloud infrastructure consisting of multiple EC2 nodes and Virtual Machines as required in the environment.
* Integrated Maven with Jenkins for the builds as the Continuous Integration process.
* Managed the maven artifacts using Nexus repository.
* Good knowledge in creating and maintaining various DevOps related tools for the team such as provisioning scripts, deployment tools etc.
* Experienced in networking with **LAN**, **WAN**, Routers, Gateways, etc.
* Worked on directory servers like **LDAP** (Linux Server) and Active Directory (Windows server).
* Creation of **SAN** File System on **RedHat Linux** using multipath configuration.
* Configuration of Network bonding which include Active/Standby and Active/Active.
* Installation of **HBA** cards (Emulex and QLogic)
* Installing and configuring **Redhat Linux** locally or over the network-kick start.
* Managed patches configuration, version control, service pack and reviews connectivity issues regarding security problems.

**Environment:** Red Hat Linux (RHEL), CentOS, MYSQL, DNS, NIS, NFS, Apache, Tomcat, Logical Volume Manager, Global File System.

**Client: SAKSOFT, Hyderabad, India
Title: Linux Administrator Sep 2013 to Apr 2014**

**Roles and Responsibilities:**

* Linux System & Middleware Administrator responsible for the day to day administration and administration of **RHEL 5, 6/ CentOS** which includes installation, testing, tuning, upgrading and loading patches, troubleshooting.
* Performed automated installations of Operating System using Jumpstart for Solaris and Kick start for Linux.
* Implemented a High Availability Cluster using 2 **V480s, a T3 and VERITAS Cluster Server 4.0.**
* Responsible for build and deployment automation using Docker container for each application tier, Vagrant to run a VM with folder sync and port forwarding and Chef used to bootstrap Docker Containers in AWS and Dev instances in production.
* Thorough knowledge on each phase of the Software Development Life-Cycle (SDLC) with specific focus on build and release of quality software.
* Worked closely with the Networks and Security Team in opening firewalls and DNS requests required for infrastructure.
* Hands on experience in automating, builds and deployment process using Shell scripting.
* Excellent quick learner and delivering solutions as an individual and as part of a team.
* Documented and edited the deployment procedures, customer facing and resolution issues on WIKI for our feature references.
* Mounting file system and Administrating.
* Configured firewall based on **Red hat Linux and FreeBSD 4.x** that has three network interfaces.
* **Environment:**Red Hat Linux (RHEL), CentOS, FreeBSD 4.x,DNS,V480s, T3, VERITAS Cluster Server 4.0., AWS and Docker.

**Amara Raja Batteries ltd, Hyderabad, India**

**Build and Release EngineerSep 2012 to Aug 2013**

**Roles and Responsibilities:**

* Developed and supported the Software Release Management and procedures.
* Performed all necessary day-to-day Subversion/CVS support for different projects.
* Responsible for design & maintenance of Subversion/CVS Repositories, views, and access control strategies.
* Provided Configuration Management and Build support for more than 5 different applications, built and deployed to the production and lower environment.
* Defined and Implemented Configuration Management and Release Management Processes, Policies and Procedures
* Implemented **GIT** for version control of puppet modules and process documentation.
* Versioning and Source control of codes using **GIT** concepts such as branching, merging, labelling/tagging, branches locking, access control and integration.
* Developed GIT hooks on local repository, code commit, remote repository, code push functionality, on Git Hub
* Worked with the Architects on SDLC process being the owner of post development environments.
* Deployed the applications to WebSphere Application Server 5.0 and static content to apache web servers.
* Carried Deployments and builds on various environments using continuous integration tool.
* Developed and implemented the software release management for the release of web applications.
* Worked closely with development team and SQA team for product releases.
* Implemented Configuration Management, Change Management policies and procedures.
* Worked as a system administrator for the build and deployments process on the enterprise server.
* Documented project’s software release management procedures with input decisions.
* Developed, maintained, and distributed release notes for each scheduled release.
* Worked closely with software developers and DevOps to debug software and system problems
* Developed and maintained integration and release processes.
* Involved in Research of the project application architecture to support/resolve build, compile, and test issues/problems.

**Environment:** Subversion, ANT, Git, RHEL, XML, WebLogic, WebSphere, Perl Scripts, Shell scripts