**NAGA SAI VADLAMUDI**



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A Technocrat with 8 years of experience in ***Financial & Banking*** domains in **IT** with primary focus on ***DevOps, Configuration, Build and Release Management, Containerization and Orchestration*** and have great experience in setting up the enterprise infrastructure on Amazon Cloud. Passionate about exploring most recent advances in technology, dynamically adaptability to new work cultures.

**Summary:**

* Experience in Server infrastructure deployment on AWS Cloud including but not limited to Virtual Private Cloud (VPC), CloudFormation, CloudFront, EC2, S3, IAM, EBS, RDS, Route53, SNS and SQS.
* Extensive experience in Linux Administration, Configuration Management, Continuous Integration, Continuous Deployment, Release Management and Containerization.
* Well versed In Linux Administration (Installation, Configuration, Tuning and Upgrades of Linux).
* Experience in branching, tagging and maintaining the version across the environments working on Software Configuration Management (SCM) tools like Subversion (SVN), GIT and Bitbucket.
* Extensively worked on Git, Jenkins, Maven, Ansible, Terraform, Docker for continuous integration and for End to End automation for all build and deployments.
* Leveraged Jenkins to build jobs for Continuous Integration and AWS Deployment pipelines using various plugins like Jenkins EC2 plugin and Jenkins CloudFormation plugin.
* Experience in Installing, Configuring and management of Ansible Centralized Server (Tower) and creating the playbooks to support various middleware application servers.
* Experience in setting up Terraform continuous build integration system.
* Development of automation of Kubernetes clusters with Ansible, writing playbooks.
* Worked with Kubernetes and Docker on multiple cloud providers, from helping developers build and containerize their application (CI/CD) to deploying either on public or private cloud.
* Have a great experience working on repository managing tools like Artifactory and Nexus.
* Experience on working Vagrant for building and distributing development environments.
* Worked on the installation and configuration of the monitoring tool like Nagios, Splunk, logic Monitor, CloudWatch.
* Used various defect tracking tools- JIRA, Bugzilla.
* Collaborated with my team and worked on Confluence which is integrated with JIRA so that we can view, interact and reference JIRA issues from wiki page.
* Extensive experience of working with the release and deployment of Java/J2EE Web applications.
* Worked on setup and configuration of Application Servers Tomcat, JBOSS, WebLogic and involved in deployment activities and Tomcat, JBOSS, and WebSphere Application servers Linux.
* Ability to build deployment, build scripts and automated solutions using scripting languages such as Shell scripting (Bash), Python, Ruby.
* Experience in monitoring tools like Nagios and Splunk. Configured Nagios to monitor EC2 instances with Puppet Automation.
* Good understanding of Build, Manage, Monitor and Remediate cycle of infrastructure.
* Installing, Configuring and Managing of MySQL. PostgreSQL, NoSQL such as DynamoDB, Cassandra DB and MongoDB.
* Experience of using Routed Protocols like FTP, SFTP, SSH, HTTP, HTTPS.
* Installation and administration of TCP/IP, NFS, DNS, NTP.
* Excellent understanding of Network topologies such as LAN, WAN, VPN and Firewalls.
* Experience on complete software development life cycle (SDLC) and software development models like Agile and Waterfall methodologies.
* Facilitated close collaboration with developers for all phases of code development, testing, and deployment.
* Adapt to new, evolving technologies and implement them in current projects. Good interpersonal skills, quick learning, problem solving and meeting technical and business needs.

**Technical Skills**

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| Configuration management and IAC Tools |  Ansible, Terraform |
| AWS Cloud Tools | EC2, VPC, IAM, EBS, S3, RDS, SNS, SQS, AMI, DynamoDB, SES, Lambda, Redshift, CloudFront. |
|  Scripting Languages | Python, Shell  |
| Containerization and Orchestration Tools |  Docker, Kubernetes. |
| Protocols | SSH, TCP/IP, IPV4, IPV6, DNS |
| Version Controls | GIT, SVN, GitHub |
| Virtualization Tools | VMware, Oracle Virtual box, Docker |
| Continuous Integration servers  | Jenkins |
| Application Servers |  WebLogic, JBoss, Tomcat |
| Monitoring Tools | ELK, Nagios, Splunk |
| Database | MySQL, PostgreSQL, DynamoDB, MongoDB |
| Bug and Issue Tracking | Jira, Bugzilla |
| Operating System | Windows, Unix, Red hat Linux, Ubuntu, Centos |

**Wells Fargo, Charlotte, NC February 2018 – Present**

**Role: DevOps Engineer**

**Description**: We are tasked with migrating semi-automated process to ***90% automated framework*** (DevOps/Cloud). This involves installation, configuration, & managing various tools, bridging development and operations to achieve highly time efficient, operable, & repeatable ***deployable micro-services*** to ***accelerate software delivery, time-to-market*** specifically focusing on workflow applications for migrating from legacy systems to newer **Digital Payments Platform**.

**Responsibilities**:

* Created the automated build and deployment process for apps (microservices) and re-engineering setup for better UI experience and leading to a Continuous Integration (CI) and Continuous Delivery (CD) system.
* Responsible for automating software builds and release configurations Design and implement workflows to automate the release and upgrade process for applications in lower Test and Production environments.
* Implemented AWS virtual servers by Ansible roles to ensure deployment of web applications.
* Architected AWS solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups, Optimized volumes and EC2 instances.
* Used lambda functions for PHD events and notify the team either to slack or e-mail through SNS.
* Installed and configured Infrastructure Automation Tools Terraform, Chef.
* Worked with Terraform to create stacks in AWS from the scratch and updated the terraform as per the organizations requirement on a regular basis.
* Worked on writing configuration files using HashiCorp Configuration Language(HCL) and used Interpolation, Lifecycle management, outputs and variables as a part of script.
* Written Templates for AWS infrastructure as a code using Terraform to build staging and production environments.
* AWS EC2/VPC/S3/SQS/SNS based infrastructure automation through Terraform, Chef, Bash Scripts.
* CI/CD framework implementation using Jenkins supplemented with Python and Shell scripts to automate scheduling jobs at regular/on-demand basis.
* Hands on Exposure to GIT and SVN Performing Branching, Merging and Tagging for Release Activities.
* Responsible for implementing and managing release process for the progression of code in development, test, and production environments.
* Installed, Configured and Administered Jenkins Continuous Integration Tool.
* Developed build and deployment scripts using MAVEN as build tool in Jenkins to progress from one environment to other environments.
* Integrated SonarQube with Jenkins for the code coverage and static code analysis.
* Documented release metrics, software configuration process. Used Maven scripts to build the source code. Supported and helped to create Dynamic Views and Snapshot views for end users.
* Enabled Continuous Delivery into several environments of Development, Test and Production using Jenkins.
* Created HA cluster using Kops on AWS and created Single Master cluster on premises using Kubeadm.
* Worked on Pod Security Policies and Ingress Controller and used RBAC for regulating Access to the network.
* To achieve Continuous Delivery goal on high scalable environment, used Kubernetes coupled with load-balancing tool Nginx.
* Developed shell scripts for automation of the build and release process, developed Custom Scripts to monitor repositories, Server storage.
* Implemented rapid provisioning and life-cycle management for Ubuntu Linux using Amazon EC2, Ansible, and custom Ruby/Bash scripts.
* Designed an ELK (Elastic Logstash Kibana) system to monitor and search enterprise alerts.
* Expertise in the centralized logging and monitoring stack of Elasticsearch, Logstash, and Kibana to

build real time monitoring dashboards to ensure high availability of the Cloud Control Plane.

* Deployed the Java applications into web application servers like Tomcat and WebLogic.
* Performed and deployed Builds for various Environments like QA, Integration, UAT and Production Environments.
* Troubleshoot and resolved Build failures due to infrastructure issues reduced by 95% stabilizing the build process. Setup and executed process to code review system effectively.
* Worked on Confluence integrated with JIRA to interact and reference JIRA issues. Used JIRA to track issues and Change Management.
* Worked with monitoring tools like App Dynamics, Dynatrace and Splunk.
* Supported mission critical application with 24/7 on call support with weekly rotation.

Environment: Ubuntu, Terraform, AWS, Maven, ELK, Python, Shell, Java, Maven, Jenkins, Kubernetes, AWS, Apache Webserver, JBoss, GIT, JIRA.

**Fidelity Investments, Dallas, TX September 2015 – January 2018**

**Role: DevOps Engineer**

**Description:** We teamed up to configure and support various tools, including but not limited to Jenkins, Maven, ANT, Nexus, delivering direct consumers and authorized dealers with better and newer ***invoice, rebate and payment microservices*** by adapting to agile methodologies to shorten release cycles to fix/update.

**Responsibilities:**

* Responsible for maintaining and managing Dev, Test and Production environments
* Worked on IAAS, PAAS and FAAS services of AWS and like EC2, Elastic Bean Stalk and Lambda Functions.
* Created python scripts which integrated with amazon API to control instance operations and authored Shell Scripts for automation purpose.
* Resolved merging issues during rebasing and re-integrating branches by coordinating with Development Team.
* Building massively scalable network-oriented software for the Elastic Load Balancing (ELB) service.
* Used EBS stores for persistent storage and performed access management using IAM service.
* Responsible for designing and deploying best SCM processes and procedures.
* Maintained and coordinated environment configuration, controls, code integrity, and code conflict resolution.
* Involved in writing parent pom files to establish the code quality tools integration.
* Installing, configuring and administering Jenkins CI tool on Linux machines.
* Implemented the setup for Master slave architecture to improve the Performance of Jenkins.
* Used Jenkins for Continuous Integration and deployment into Tomcat Application Server.
* Installed and Configured the Nexus repository manager for sharing the artifacts within the company.
* Virtualized the servers using the Docker for the test environments and dev-environments needs and also configuration automation using Docker containers.
* Expertise in setting up Docker Host, Docker Registry, RHEL/ Centos Atomic Host, Docker images (Centos, RHEL and Ubuntu instances).
* Use puppet and Chef Automation tools for configuration management in different systems.
* Installed/Configured/Managed Puppet Master/Agent. Wrote custom Modules and Manifests, downloaded pre-written modules from puppet-forge. Upgradation or Migration of Puppet Community and Enterprise.
* Created and updated Puppet manifests and modules, files, and packages stored in the GIT repository.
* Using puppet for automation of application such as Tomcat, Apache, WebLogic.
* 100 percent automation in AWS by using ec2tags for puppet agents in installing puppet modules.
* Used Puppet to deploy ELK for automating continuous deployment(CD) and configured Slave Nodes and deployment failure reporting.
* Launching infrastructure in AWS using ami's created by Packer tool through Jenkins.
* Provision and configure local Vagrant machines for developers with puppet.
* Supported and developed tools for integration, automated testing and release management.
* Verified if the methods used to create and recreate software builds are consistent and can be repeatable.
* Involved in Research of the project application architecture to support/resolve build, compile, and test issues/problems.
* Releasing code to testing regions or staging areas according to the release schedule published.
* Used Jira as ticket tracking and work flow tool.

Environment: SVN, Shell Scripts, SCM, Jenkins, Puppet, ELK, AWS, Build Forge, Maven and ANT, Tomcat, Jira.

**Mindtree Ltd, Bengaluru, India September 2013 – August 2015**

**Role: Build and Release Engineer**

**Description:** Configuring, Building and Deploying applications to middleware infrastructure leveraging Maven, ANT & Jenkins for Dev, & QA environments.

**Responsibilities**:

* Deployed WARS and EARS using WebLogic Admin Console as well as running scripts.
* Configured JDBC connection pools and data sources for the applications.
* Responsible for Continuous Integration environments like Jenkins.
* Assist with maintaining current build systems, developed build scripts and maintained the source control system.
* Built deployable artifacts to middleware infrastructure such as WebSphere application server using Maven and Python scripts.
* Deployed build and deployment scripts using ANT and MAVEN as build tools in Jenkins to move from one environment to other environments.
* Responsible for building and releasing packages to DEV and QA Environments.
* Performing clean builds per the schedule published for a given release.
* Responsible for design and maintenance of the Subversion Repositories.
* Securing system by implementing organizational policies to system access, monitoring, and controls.
* Managed the source codes repository of multiple development applications using Git.
* Enforced automation in build and deployment procedures, executed code builds and deployment activities.

Environment: Git, Oracle WebLogic, ANT/MAVEN, Jenkins, Bash Shell, WebSphere application server.

**Mindtree Ltd, Bengaluru, India June 2012– September 2013**

**Role: Java Developer**

**Description:** We worked on the software application architecture, frameworks, modules, features, and functionality are designed, implemented, and deployed.

**Responsibilities:**

* Developed applications on J2EE environment using technologies like Spring, Struct and EJB.
* Built UI components using HTML, CSS, JavaScript, jQuery.
* Developed the application using Spring framework and used various modules.
* Developed DAO’s, Persistence objects for Object Relational Mapping using Hibernate
* Worked on the different IDE’s like Eclipse and IntelliJ
* Involved in setting up local environment to debug and test the application
* Used to coordinate with the team to gather best practices and document them in the confluence.
* Prioritized and organized assignments to make efficient use of time with significant attention to details and handled multiple tickets simultaneously.
* Consistently communicated and coordinated with customers for fixing the issues and updating the status to ensure the reliability of the applications.
* Analyzed all business processes and ensured compliance to all controlled processes according to business requirement.
* Monitored and provided support to workflows and provided expert knowledge on the workflow designs.
* Provided 24×7 operational support to all production practices on holidays and weekends.
* Implemented the ability to log the details of the application using Log4j

Environment: Java/J2EE, Servlets, JSP, JSF, HTML, JavaScript, CSS, XML, Ajax, jQuery, Spring Framework, Hibernate, Jboss, Log4J, Oracle 10g, PL/SQL, SQL Developer, HQL, ANT, Eclipse. Linux/Unix, Windows.