AWS DevOps Engineer

NAGARAJU CHALAMALA   naga12devops@gmail.com
+91 7207203934

PROFESSIONAL SUMMARY:

➢ Over **5+** years of Professional work experience as **Linux, Build & Release/DevOps** Engineer with **AWS**, **GCP** and **AZURE** Cloud platform experience mentoring skills and good understanding of the principles.

➢ Around **1.3** years of experience with **Google Cloud Platform** and **3** Years of exp with **AWS**.

➢ Experienced in Configuration Management, Cloud Infrastructure, and Automation utilizing **Amazon Web Services** (**AWS**) and **Google Cloud Platform (GCP), Maven, Jenkins, Ansible, Docker**, **Kubernetes** and **GitHub**.

➢ Experience in Google Cloud Virtual Network, Cloud Load Balancing, Cloud CDN, Cloud VPN, Cloud DNS Managing and monitoring Azure virtual machines.

➢ Experience in Cloud Storage, Compute Engine, Kubernetes and App Engine.

➢ Good Hands-on experience on google cloud shell to deploy the infrastructure.

➢ Experience of storage technologies Cloud storage, BigQuery.

➢ Experience of database technologies, must know how to use Cloud SQL, Spanner, BigTable, etc

➢ Knowledge and hands on experience on Stack driver, pub-sub, VPC, Subnets, route tables, Load balancers, firewall etc in GCP.

➢ Administrated all aspects in GIT and troubleshoot with merge conflicts. Working on weekly merges for different branches and resolving the conflicts as part of release activities.

➢ Creating support case with GCloud and follow-up in case of any issue.

➢ Good experience in Power Shell scripting for automation of technical activities in Azure.

➢ Hands on Knowledge in Interpreted languages including **Python**.

➢ Expertise in installing, configuring and managing **Web Logic**, **Apache**, **VMW** are Server in clustered environments for High Availability, Load balancing and fault tolerant.

➢ Transfer data from Datacenters to cloud using AWS Import/Export Snowball service.

➢ Used Amazon Route53 to manage DNS zones and also give public DNS names to elastic load balancers IP's and AWS Beanstalk for deploying and scaling web applications and services.

➢ Manage Amazon Redshift clusters such as launching the cluster and specifying the node type as well.

➢ Setup and build AWS infrastructure various resources like VPC, EC2, RDB, S3, IAM, EBS, Security Group, Auto Scaling, SES, SNS and RDS in Cloud Formation JSON templates.

➢ 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, OPS Work, Security Groups etc.

➢ Designed highly available, cost effective and fault - tolerant systems using multiple EC2 instances, Auto Scaling, Elastic Load Balance and AMI's and Glacier for QA and UAT environments as well as infrastructure servers for GitHub and Ansible.

➢ Experienced in architecting and managing AWS cloud infrastructure.

➢ Experienced in designing and distribution of Data across all the nodes and Clusters on different availability zones in AWS Redshift.

➢ Deployed and monitored scalable infrastructure on Amazon Web Services (AWS) & configuration management using **Puppet/Chef/Ansible**.

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- ➢ Expertise in Application Deployments & Environment configuration using Chef, Puppet, Ansible.
- ➢ Extensive experience in **Linux**/**Unix** system Administration, System Builds, Server Builds, Installations, Upgrades, Patches, Migration, Trouble shooting on RHEL 5.x/6.x/7x.
- ➢ Good knowledge of AWS services like Glacier, ELB (Load Balancers), RDS, SNS and IAM and hands on experience on Amazon Web Services (AWS) provision.
- ➢ Extensively worked on **CI** tools like **Jenkins** for **Continuous Integration** and for end-to-end automated build and deployments.
- ➢ Working knowledge and administrator experience of Continuous Integration strategies and tools (such as Jenkins, Octopus etc.)
- ➢ Good understanding of Azure Active Directory and Google Cloud Platform instances and storages and networking.
- ➢ Experience in Querying **RDBMS** such as **Oracle**, **MySQL** and **SQL Server**.
- ➢ Skilled at AWS Cloud platform and its features which include EC2, VPC, EBS, AMI, SNS, RDS, Cloud Watch, Route53, Auto Scaling, Security Groups, Redshift, and Cloud Formation.
- ➢ Configured DOCKER Containers for Branching purpose and deployed using Elastic Beanstalk.
- ➢ Exposed to all aspects of the **Software Development Life Cycle** (**SDLC**) which includes Analysis, Planning, Developing, Testing and Implementing and Post-production analysis of the projects.
- ➢ Involved in migrating version management systems from CVS to SVN, SVN to CVS, and SVN to GIT.
- ➢ Experience working on Docker hub, creating Docker images and handling multiple images primarily for middleware installations and domain configuration.
- ➢ Knowledge on POC to understand the role of **Terraform** in Cloud Automation.
- ➢ Goog Knowledge with Terraform to create GCP components like Cloud Compute, Google Cloud Storage, Google Cloud DNS, Cloud IAM, and VPC.
- ➢ Managing and training the team on various GCP components related to **Compute**, **Storage**, **Database**, **BigData**.

TECHNICAL SKILLS:

Cloud Platforms: Amozon Web services (AWS), Google Cloud (GCP) and AZURE
SCM Tools: GIT, GitHub and Bitbucket.
Build Tools: Ant, Maven.
Config Mgmt Tools: Ansible, Chef and Puppet.
CI Tools: Jenkins, Bamboo.
Containerization: Docker and Kubernetes
Scripting Languages: Bash, Python and PowerShell**.**
Web/App servers: Web logic and Web Sphere.
Monitoring Tools: Nginx and Cloud watch
Operating Systems: Linux and Windows Family
DBMS: MSSQL Server and MySQL.
SDLC: Agile and Waterfall Methodologies.

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PROFESSIONAL EXPERIENCE:

Project # 1
Company: Credit Suisse   Oct /2016 to till date
Current Designation: DevOps Engineer
Environment: GCP, AWS, ANT, Jenkins, Ansible, JIRA, Agile, XML, Dockers, SQL Server.
Roles and Responsibilities:

- Preparation of storage migration plans to deploy into GCP environment via Terraform.
- Assisted in preparing the High level design architecture and detailed infrastructure design with senior architects.
- Experience in Google Cloud Virtual Network, Cloud Load Balancing, Cloud CDN, CloudVPN, Cloud DNS.
- Experience in Cloud Storage, Compute Engine, Kubernetes and App Engine.
- Good Hands-on experience on google cloud shell to deploy the infrastructure.
- Experience of storage technologies Cloud storage, BigQuery.
- Experience of database technologies, must know how to use Cloud SQL, Spanner, BigTable, etc
- Knowledge and hands on experience on Stack driver, pub-sub, VPC, Subnets, route tables, Load balancers, firewall etc
- Administrated all aspects in GIT and troubleshoot with merge conflicts. Working on weekly merges for different branches and resolving the conflicts as part of release activities.
- Configured and maintained Jenkins to implement the CI/CD process and integrated the tool with Maven to schedule the builds.
- Created GCR images for successfully tested applications.
- Working with development/testing, deployment, systems/infrastructure and project teams to ensure continuous operation of build and test system.
- Creating support case with GCloud and follow-up in case of any issue.
- Developed build and deployment script using ANT, Shell to Setup development and QA environments.
- Implemented Subversion branching and merging operations for Java Source Code.
- Maintained build related scripts developed in ANT and Shell. Modified build configuration files including Ant build.xml.
- Provided Configuration Management and Build support for more than 5 different applications, built and deployed to the production and lower environments.
- Defined and Implemented Configuration Management and Release Management Processes, Policies and Procedures.
- Configured and maintained Jenkins to implement the CI process and integrated the tool with Ant to schedule the builds.
- Worked in using Configuration management tools, Requirement Management tools, Code Static Analysis tools and Bug tracking tools.

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- Used JIRA tool to track all the defects and changes related to Build and Release Team.
- Deployed code on Web Sphere application servers for Production, QA, and Development environments.
- Worked on creating the Docker containers and Docker consoles for managing the application life cycle.
- Deployed web applications using Chef by developing the cookbook. Also responsible for creating and importing all the environments required to run the project.
- Designed roles and groups for users and resources using AWS Identity Access Management (IAM).
- Created Development Environments in Amazon Web Services using services like VPC, ELB, EC2 and RDS instances.

Project # 2

Client: WellPoint (Anthem)   Feb 2014 to Sep 2016
Role: DevOps Engineer
Environment: AWS, Jenkins, MAVEN, Chef, Perl Scripts, JIRA, UNIX, Tomcat servers.
Roles and Responsibilities:

- Coordinate release activities with Project Management, QA, Release Management and Web Development teams to ensure a smooth and trouble-free roll out of releases.
- Working in setting up Virtual Private Cloud, Subnets, routing table, internet gateway Access control list and security groups.
- Working on end to end in setting up of environments like DEV, IT, QA, IQA UAT and PROD environments in AWS cloud.
- Strong hands-on on AWS cloud services like EC2, S3, RDS, ELB, and EBS for installing, configuring.
- Role required Planning, deploying, monitoring, and maintaining Amazon AWS cloud infrastructure consisting of multiple EC2 nodes and Virtual Machines as required in the environment.
- Maintained the user accounts (IAM), RDS, Route 53, VPC, RDB, Dynamo DB, SES, SQS and SNS services in AWS cloud.
- Utilize Cloud Formation and Puppet by creating DevOps processes for consistent and reliable deployment methodology.
- Written chef cook books and recipes to Provision several pre-prod environments consisting of Cassandra DB installations, web logic domain creations and several proprietary middleware installations.
- Performed Build/Release/SCM engineer duties.
- Performed code line GIT pushes (releases) to production and customer servers and Developed and improved GIT push scripts.
- Implemented Puppet Master, Puppet Console and Puppet Agents, Create Puppet modules and Classes.
- Involved in writing Python, Perl and shell scripts for compilation and deployment process.

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- Automated the cloud deployments using chef, python (boto & fabric) and AWS Cloud Formation Templates.
- Used Gradle and written python scripts to automate the Build and deployment process. Used maven for few modules.
- Working on SAST and DAST tools for secure code reviewing and to find potential vulnerabilities.
- Experience in writing Ansible scripts.
- Used Ansible for configure tomcat servers and maintain.
- Worked on Virtualization of build and SCM environments.
- Performed SCM-guru tasks including branching, merging, server recovery, permission handling.
- Building pipelines in Jenkins while also fully scripting the creation and provisioning of Jenkins.
- Scripting infrastructure and (Linux) machine provisioning from scratch using tools such as bash and the Ruby AWS-SDK.
- Collaborate in the automation of AWS infrastructure via Terraform, Ansible, and Jenkins - software and services configuration via chef cookbooks.
- Worked in DevOps group running Jenkins in a Docker container with EC2 slaves in Amazon AWS cloud configuration. Also gain familiarity with surrounding technologies such as Mesos (Mesosphere) and Kubernetes.
- Worked with the development team to generate deployment profiles (jar, war, ear) using ANT Scripts and Jenkins.

EDUCATION:

Information Technology in Bachelor of Technology from JNTU Kakinada.

PERSONAL DETAILS:

Name: NAGARAJ CH
Marital Status: Single
Address: Eluru, Andhra Pradesh
Nationality: Indian