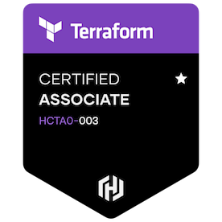
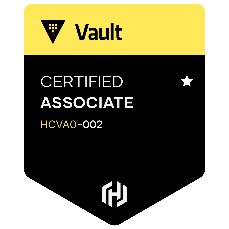
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**Ram Naresh Parasa**

**AWS DevOps/Cloud Engineer**

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Over the course of 10+ years of profound experience as AWS **DevOps/Cloud** Engineer, working in the information technology for multiple clients from different industries like Finance, Renewable Energy and Insurance.  Proven ability to successfully manage and deploy cloud-based applications and systems. Passionate about automating processes and developing solutions that improve efficiency and reliability.

**PROFESSIONAL SUMMARY:**

* Over 10+ years of Experience in Implementing Organization strategy in various Environments of **Linux** and **windows** servers along with adopting cloud strategies based on **Amazon Web Services**.
* Experienced in **AWS** Cloud platform and its features which includes **EC2**, **VPC**, **EBS**, **AMI**, **LAMBDA,** **SNS**, **RDS**, **EBS**, **ECS, EKS**, **Cloud Watch**, **Cloud Trail**, Cloud Formation **AWS** Config, Auto scaling, Cloud Front, **IAM**, **S3**, **AWS Transfer** and **R53.**
* Mainly concentrated on: EC2 (ELASTIC LOAD BALANCER, AUTO SCALING, EBS), VPC, S3, IAM, RDS.
* Utilized **Cloud Watch** to monitor resources such as **EC2, CPU memory, Amazon RDS DB services, EBS volumes**; to set alarms for notification or automated actions; and to monitor logs for a better understanding and operation of the system.
* Considerable experience in the design and implementation of Continuous Integration, Continuous Delivery, Continuous **Deployment** and **DevOps** processes for Agile projects.
* Experience in Software Configuration Management tools on Windows environment and Linux using **GIT**.
* Experienced in **Build/Release** management and **Change/Incident** management.
* Extensive experience on Terraform – IAC (Infrastructure as Code) for provisioning environments in AWS.
* Knowledge on Python **Boto3** – AWS SDK.
* Experience in A/B deployments in **PROD** without downtime of application.
* Ability to design applications on AWS adhering to disaster recovery design guidelines.
* Good experience in build tools **MAVEN**.
* Extensively worked on **Jenkins** for **continuous integration** and for End-to-End automation for all **Build and Deployments**.
* Expertise in automation tools like **Git, Ant, Maven, Jenkins, Chef, Gitlab, Ansible**, Subversion, Nagios, **Docker & Kubernetes**.
* Proficient with container systems like **Docker** and container orchestration like **EC2 Container Service**, **Kubernetes**, worked with Terraform.
* Managed Docker orchestration and **Docker Containerization** using **Kubernetes**.
* **Kubernetes** **cluster setup** and administration.
* **Helm** for application deployment.
* Used Kubernetes to orchestrate **deployment, scaling and management of Docker Containers**.
* Configured Jenkins Master-Slave Architecture using Jenkins Nodes.
* Experience in using **Jfrog** for artifact storage and for downloading artifacts for testing and deploying to applications.
* Work with business partners to establish Service Level Indicators, Objectives and Agreements (**SLIs, SLAs and SLOs**).
* Ensure user tickets and monitoring alerts are handled per defined SLAs for response time, updates and closure.
* Experienced in using CloudFront to deliver content from **AWS edge locations** to users, allowing for further reduction of load on front-end servers.
* Configured and migrated Applications to **AWS Route53** and hence providing traffic management and application availability.
* Knowledgeable on Cloud technologies including Infrastructure as a Service (**IaaS**), Platform as a Service (**PaaS**) and Software as a Service (**SaaS**) provider.
* Coordinated with networking teams in configuring **AWS Direct Connect** to establish a dedicated connection to datacenters.
* Integrated SonarQube with **Jenkins** for continuous inspection of code quality.
* Experience with Amazon Web services Creating, configuring and Managing EC2, IAM, S3, ELB services across AWS Zone.
* Experience with **Python** and **Shell scripting** to automate repetitive tasks and scheduling to execute the automation scripts as **Cron jobs**.
* Experience in Integrating Unit Tests and Code Quality Analysis tools like JUnit, and Cucumber.
* Extensive experience using MAVEN, ANT as build tools for writing a **build.xml** and **pom.xml** and building of deployable artifacts from source code.
* Experience in working on version control systems like Subversion, GIT and used Source code management client tools like GitBash, **GitHub, Clear Case, Git GUI,** and other command line applications in terms of branching, tagging, and maintenance on UNIX and Windows environment.
* Involved in setting up **Terraform** continuous build integration system.
* Version controlled application development using Code Commit, configured Jenkins pipeline build triggers using Bitbucket.
* Strong comprehension of central advancements like DNS, Load Balancing, **SSL, TCP/IP**, systems administration and security best practices.
* Daily activities include like scheduling builds for multiple projects, deploying the artifacts in multiple QA and Dev environments and debugging issues.
* Experienced in source control management concepts such as branching, merging, labeling and integration.
* Event based deployments to **Amazon–EC2**, Upload Build artifacts in to **Amazon S3**, Created **VPC**, Create and manage AWS users and groups through IAM, monitoring servers through Amazon Cloud Watch, Setup/Managing Databases on Amazon RDS (MONGO DB).
* Installation, Configurations of **Jenkins for continuous integration**.
* Installed number of plugins in Jenkins for project requirement.
* Configured **Build Machines** or Nodes in Jenkins.
* Good experience in automating the process of uploading the packages from Jenkins using backup repository **Jfrog**.
* Good knowledge in taking the backup using Jfrog.
* Configuring the Docker containers and creating Docker files for different environments.
* Good knowledge in creating the Docker Images and configuring the images in Jenkins.
* Launching, configuring of Amazon **EC2 (AWS)** Cloud Servers using AMI’s **(Linux/Centos)** and configuring the servers for specified applications.
* Good understanding of the principles and best practices of Software Configuration Management (**SCM**) and closely worked with development, QA and other teams to ensure automated test efforts are tightly integrated with the build system and in fixing the error while doing the deployment and building.
* Good communication skills (written and verbal) and Good Team player and also a self-motivated individual with analytical and problem-solving skills with customer focus.
* Good experience working in **Agile** Methodology(scrum).
* Good commitment, result oriented, hard working with a quest and zeal to learn new technologies and undertake challenging tasks.
* Very quick in learning new technologies and a good team player working with **Project Managers, Architects, Team Leads, Developers, Business Analysts, Testers.**

**CERTIFICATIONS:**

* CKA: **Certified Kubernetes Administrator**
* HashiCorp Certified: **Vault** Associate (002)
* AWS Certified **Solutions Architect** – Associate (SAA-C03)
* HashiCorp Certified **-** **Terraform** Associate (003)

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| **Languages** | JSON, Yaml, Groovy, Terraform, Shell, Bash & Python |
| **Operating Systems** | RedHat Linux 4/5/6/7, CentOS 5/6/7, Windows Servers 2003, 2008, 2008 R2, 2012, 2012 R2, Windows 2000, XP, 7, Cloud Services |
| **Build Tools** | Maven, Gradle, Docker |
| **Versioning Tools** | GIT, Github, Gitlab, Bitbucket, Subversion |
| **Application Servers** | Apache Tomcat, Nginx |
| **Amazon Web Services** | EC2, S3, VPC, AWS SFTP, SNS, SES, Route53, Cloud Watch, Cloud Trail, IAM, SQS, Lambda, ECS, EKS, RDS, AWS CLI, Cloud Front. |
| **Cloud Services** | Amazon Web Services (AWS) |
| **Monitoring Tools** | Nagios, CloudWatch, Splunk, New Relic, Kibana |
| **Virtualization** | VMware, Virtual Box, Vagrant. |
| **CI/CD Tools** | GIT, GITHUB, Bit Bucket, Maven, Jfrog, Jenkins, Docker, Ansible, Terraform, Kubernetes, Helm Charts |
| **Other Tools** | Network Protocols WinSCP, SSH, VPN |
| **Protocols** | TCP/IP, SSH, HTTP, HTTPS |
| **Database Technologies** | Oracle, MySQL, NoSQL, MongoDB, Cassandra, DynamoDB |

**EDUCATION:**

Bachelor of Technology from Jawaharlal Technological University, Kakinada, India - 2012

**PROFESSIONAL EXPERIENCE:**

**Client: General Electric Renewable Energy, Schenectady October 2018 - Till Date**

**AWS DevOps/Cloud Engineer**

**Description:**

At GE Renewable Energy, harness the earth’s most abundant resources – the strength of the wind, the heat of the sun and the force of water – to power the world’s biggest economies and the most remote communities. Combining onshore and offshore wind, blades, hydro, storage, utility-scale solar, and grid solutions as well as hybrid renewables and digital services offerings, GE Renewable Energy has installed more than 400+ gigawatts of clean renewable energy and equipped more than 90 percent of utilities worldwide with its grid solutions.

**Responsibilities:**

* Setup and managed security groups, **VPC**’s specific to environment.
* Launching and configuring of Amazon **EC2 (AWS)** Cloud Servers using **AMI's (Linux/Centos)** and configuring the servers for specified applications.
* EC2 instances, Auto Scaling, Elastic Load Balance (**ELB**)and AMIs.
* Attaching or Detaching **EBS** volume to **AWS EC2** instance.
* Created **Terraform** modules for various AWS services to re-use and provision the environments.
* Installed and configured **RabbitMQ** and **Hasicorp Vault** as docker container.
* Configured **HashiCorp Vault** to store the login secrets.
* Integrated Kubernetes with **Hashicorp Vault** to inject configurations at runtime for each service using init, config sidecars and persistent volume sharing between app and config sidecars.
* **Architected** and implemented CI/CD pipelines, leveraging tools such as Jenkins, GitLab CI/CD, and Azure DevOps, to automate the end-to-end software delivery process.
* **Designed** and managed **infrastructure as code** (IaC) using tools like Terraform and Ansible, resulting in consistent and scalable environments across development, testing, and production.
* Implemented **monitoring** and log aggregation solutions using **ELK stack** and Prometheus/Grafana, providing real-time insights into application performance and system health.
* Designed and installed Hashicorp **vault** for secret management. Secrets required for running the application are retrieved from a vault at a container's startup time and automatically renewed during the application's lifecycle.
* Ensured **security and compliance** in DevOps processes by implementing best practices, conducting regular audits, and integrating security tools into the CI/CD pipeline.
* Implemented successful Kubernetes **cluster upgrades** for multiple production environments, ensuring minimal downtime and uninterrupted service availability.
* Conducted thorough testing of applications and workloads on upgraded clusters to identify and resolve compatibility issues.
* Developed comprehensive upgrade plans, including backup and **rollback strategies** to mitigate risks and ensure a smooth upgrade process.
* Implemented automation scripts for pre- and post-upgrade tasks, streamlining the **upgrade** process and reducing manual intervention.
* Utilized **Terraform** to define and provision the required AWS resources for the EKS clusters, ensuring consistency and reproducibility.
* Implemented **IAM** (Identity and Access Management) roles and policies to secure EKS cluster access and follow the principle of least privilege.
* Wrote Ansible playbooks and modules to deploy, configure, and manage servers.
* Automated build and deployment using Jenkins to reduce human error and speed up production processes.
* Installing, configuring and maintaining Continuous Integration, Automation and Configuration Management tools like **Jenkins** and **Ansible**.
* Experience in Software Configuration Management tools on Windows environment and Linux using **GIT**.
* Good experience in build tools **MAVEN**.
* Worked on infrastructure with **Docker** containerization.
* Successfully deployed and managed **Kubernetes clusters** using AWS EKS.
* Developed and maintained **Helm charts** for simplifying application packaging and deployment on Kubernetes.
* Oversaw the installation, **configuration and upgrading** of Kubernetes clusters.
* Monitored **cluster performance** and capacity to ensure optimal resource allocation and efficient scaling of applications.
* Implemented **security best practices**, including RBAC, Pod Security Policies, and Network Policies, to safeguard Kubernetes clusters and workloads.
* Collaborated with development and operations teams to troubleshoot and resolve issues related to Kubernetes deployments and services.
* Utilized Kubernetes features like **Horizontal Pod Autoscaling** (HPA) and Cluster Autoscaler to optimize resource utilization and ensure high availability.
* Troubleshot and resolved issues related to Kubernetes cluster performance, networking, and security.
* Implemented **docker-maven-plugin** in maven pom to build **docker images** for all microservices and later used **Dockerfile** to build the images from the java jar files.
* Implemented build stage to build the microservice and push the docker container image to the **private docker registry**.
* Used **Jenkins Pipelines** to drive all microservice builds out of the **Docker registry** and then deployed to Kubernetes. Created deployments, replica sets, pods, horizontal pod auto scaler and services with **Kubernetes.**
* Developed microservice On-boarding tools leveraging **Python** and **Jenkins** allowing easy creation and creation of build jobs and **Kubernetes** deployments and services.
* Extensively worked on **Jenkins** for **continuous integration** and End-to-End automation for all **Build and Deployments by using shell scripting**.
* Installation, Configuration, Administration of **Jenkins for continuous integration**.
* Installed number of plugins in **Jenkins** for project requirement.
* Configured **Build Machines** or Nodes in Jenkins.
* Good experience in automating the process of uploading the packages from **Jenkins** using backup repository **Nexus**.
* Good knowledge in taking the backup using **Nexus**.
* Developed automation scripting in **Python** using puppet to deploy and manage Java applications across Linux Servers.
* Configuring the **Docker** containers and creating **Docker files** for different environments.
* Good knowledge in creating the **Docker Images** and configuring the images in Jenkins.
* Data flow discussions with client- requirement specifications.

**Environment:** Github, Maven, Jira, SonarQube, Jenkins, Python, JFrog Artifactory, Kubernetes, Helm, ELK, Docker, Vault, Nginx, Shell Scripts, Ansible, Terraform, AWS – VPC, IAM, EC2, ELB, ECS, Autoscaling, S3, CloudWatch.

**Client: Fidelity Investments, Boston January 2016 - September 2018**

**Build and Release Engineer**

**Description:** ​​​​​​​​​​​​​​​​​​​​​

Fidelity Investments is an American [multi-national](https://en.wikipedia.org/wiki/Multinational_corporation) [financial services](https://en.wikipedia.org/wiki/Financial_services) corporation based in [Boston](https://en.wikipedia.org/wiki/Boston), [Massachusetts](https://en.wikipedia.org/wiki/Massachusetts). Fidelity Investments operates a [brokerage firm](https://en.wikipedia.org/wiki/Brokerage_firm), manages a large family of [mutual funds](https://en.wikipedia.org/wiki/Mutual_fund), provides fund distribution and investment advice, retirement services, [index funds](https://en.wikipedia.org/wiki/Index_funds), [wealth management](https://en.wikipedia.org/wiki/Wealth_management), securities execution and clearance, asset custody, and [life insurance](https://en.wikipedia.org/wiki/Life_insurance).

**Responsibilities:**

* Setting up the new build environment for various applications in **Windows/Linux** environment.
* Implemented Continuous Integration using **Jenkins** and **Cloud Formation** stack updates.
* Worked exclusively on making applications more scalable and highly available system in AWS (load balancing) with full automation.
* Setup and attached **EBS** volumes to EC2 instances
* Experience in setting up **TERRAFORM** continuous build integration system.
* Conducted routine maintenance tasks, such as backups, patching, and upgrades, to ensure the stability and health of the **Kubernetes infrastructure.**
* Managed and administered multiple **Kubernetes clusters** for production, development, and testing environments.
* Monitored **cluster health** during the upgrade and performed necessary troubleshooting to resolve any issues that arose.
* Integrated **Kubernetes events and logs** with ELK Stack, facilitating centralized log management and troubleshooting capabilities.
* Developed automated **alerting workflows** to promptly notify teams about critical cluster events and performance anomalies.
* Setup and managed security groups, **VPC**’S specific to environment.
* Created **AMI** images of critical **EC2** instances as backup using GUI.
* Create and configure **S3** bucket with restricted policies.
* Migrating and Managing DNS entries in **Route 53** and various DNS providers.
* Created AWS Cloud formation templates on creating **IAM** Roles.
* Creating and maintaining the development and release branches on **GIT**.
* Using **Maven** as a build tool, I could automate the process of building artifacts.
* Implementing **Jenkins continuous integration** tool including installing setting the jobs/plans and setting up the tool for deployment.
* Involved in installing **Jenkins** on a **Linux** Machine. And creating a **Master** and **Slave** configuration to implement multiple parallel builds through a build.
* Developed **Python and Shell Scripts** for automation of the build and release process.
* Installation, Configuration and Administration of **Jenkins** over UNIX and LINUX build machines in distributed mode over Apache Tomcat and configured jobs along with various plugins for Continuous Integration, Release Builds for Production Branches.
* Involved in deployment of the application using **Tomcat**.
* Responsible for the **deployment on Linux** server for Dev/ QA and production environments.
* Preparing the build statistics and produce to the management team.
* **Troubleshoot** deployment problems, **release issues** and **environment issues** in a multi-component environment.

**Environment**: Jenkins, Maven, Ansible, ShellScript, Groovy, Terraform, Kubernetes, Helm, Python, GitLab, Jira, Agile, SDLC, Infrastructure Management, NewRelic, Jfrog, AWS – IAM, EC2, ELB, S3, RDS, CloudFormation, Unix/Linux environment.

**Client: Citi-bank, Dallas June 2013- December 2015**

**Software Engineer**

**Description:**

Citigroup Inc. is an American multinational [investment bank](https://en.wikipedia.org/wiki/Investment_banking) and [financial services](https://en.wikipedia.org/wiki/Financial_services) corporation headquartered in [New York City](https://en.wikipedia.org/wiki/New_York_City). Citigroup is the [third largest banking institution](https://en.wikipedia.org/wiki/List_of_largest_banks_in_the_United_States) in the [United States](https://en.wikipedia.org/wiki/United_States). It is considered a [systemically important bank](https://en.wikipedia.org/wiki/Systemically_important_financial_institution) by the [Financial Stability Board](https://en.wikipedia.org/wiki/Financial_Stability_Board) and is commonly cited as being [too big to fail](https://en.wikipedia.org/wiki/Too_big_to_fail). It is one of the eight global investment banks in the [Bulge Bracket](https://en.wikipedia.org/wiki/Bulge_Bracket). Citigroup has approximately 200 million customer accounts and does business in more than 160 countries.

**Responsibilities:**

* Involved in End-to-End environment setup. Software installation server installation and tools installation etc.
* Designed project workflows and pipelines using **Groovy** script in **Jenkins** as CI tool, key role in converting existing **Jenkins** jobs into the new pipeline process.
* Proposed, Implemented and maintained New Branching strategies for development teams to support trunk, development baseline codes along with several feature branches.
* Managed the **release process**, from initial scheduling to actual release coordination through post-release support.
* Operational mindset with ability to do incident, problem, change, and SLA management.
* Administered and Engineered Jenkins for managing weekly Build, Test**, GIT** with Development/Test/Production Branching Model for weekly releases.
* Automated Weekly releases with **ANT/Maven** scripting for Compiling Java Code, Debugging and Placing Builds into Maven Repository.
* Involved in designing and deploying multitude applications utilizing almost all the **AWS stack** focusing on high-availability, **fault tolerance**, and auto-scaling in AWS Cloud Formation & Terraform.
* Improved speed, efficiency and scalability of the continuous integration environment, automating wherever possible **using Python, Shell and Powershell scripts**.
* Responsible for Set-up, administrate and maintain **GitHub, Jenkins.**
* Used GIT to manage all the build release source code and Jenkins for automatically build and deploy.
* Administer and configured Change and Release Management tool suite including Perforce source code, **Jenkins build, Maven artifact**, and perform Release to customer systems daily.
* Monitored and troubleshoot environmental issues as needed.
* Participated in release activities with the cross-functional project teams.
* Created, maintained, and augmented build scripts.
* Been Part of "**Release Readiness Review**" status meeting (Go/No-go Process).
* Managed the Subversion branching strategy for a few applications by creating Release branches.
* Involved in deploying the **J2EE EAR,** jar and war files including automated deployment of the applications on both Windows as well as **UNIX** environments.
* Involved in editing existing **ANT** build files as per changes in the project requirements.
* Defined, developed, implemented, documented and evolve continuous integration and delivery tooling and standards for future references.
* Implementing a Continuous Delivery framework using **Jenkins, Maven** in the Linux environment.

**Environment:** Jenkins, Maven, Ansible, ShellScript, Automation, Build, Release, Github, Jira, Agile, SDLC, Infrastructure Management, Nexus, Sonarqube, Remedy, Unix/Linux environment. RHEL, WebLogic Server, Windows Server 2000/2003, Jenkins, Java/J2EE, JBOSS. SQL Server, DB2.