Adi

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**PROFESSIONAL SUMMARY**

* Over 4+ years of Experience in Implementing Organization DevOps strategy in various environments of Linux and windows servers along with adopting cloud strategies based on Amazon Web Services Played key role as Build Release and Deployment Engineer for the assigned Projects.
* Good working experience in building and deploying Java web applications in Linux environment.
* Designed, deployed, and managed Kubernetes clusters for running microservices-based applications.
* Automated the deployment of containerized applications using Kubernetes, ensuring high availability and scalability.
* Implemented rolling updates and rollbacks in Kubernetes to minimize downtime during deployments.
* Integrated Terraform with CI/CD pipelines (e.g., Jenkins) to automate infrastructure deployments and updates.
* Created reusable Terraform modules to promote code reuse and maintainability across multiple projects.
* Managed Terraform state effectively using remote state backends with S3ensuring team collaboration and state consistency.
* Provisioned and managed AWS using Terraform, including VPCs, EC2 instances, S3 buckets, and RDS databases and etc.
* Configured Jenkins to use a distributed build architecture with master and agent nodes, improving build performance and scalability.
* Implemented security best practices in Jenkins, including user authentication, role-based access control (RBAC), and secure credential management.
* Designed and implemented robust CI/CD pipelines in Jenkins to automate the build, test, and deployment processes for multiple projects.
* Configured Jenkins to trigger automated tests using frameworks such as JUnit and Selenium, ensuring high code quality and reducing defects.
* Automated configuration management and application deployment for over 200 servers using Ansible, reducing manual effort and errors by 90%.
* Created reusable Ansible roles and modules to standardize infrastructure configurations and promote code reuse across projects.
* Implemented Ansible Vault to securely manage sensitive data and credentials, ensuring compliance with security policies.
* Responsible for administration of GIT version control. Perform activities like Branching, tagging, backup, restore, and access permissions.
* Worked on MAVEN build tool to generate project Artifacts and troubleshoot Build issues.
* Configured Grafana to visualize Prometheus metrics, creating custom dashboards to monitor system health and application performance.
* Working with build servers using AWS: Importing volumes, Launching EC2, creating security groups, load balancers.
* Experienced in build tools such as Ant, Maven to generate project Artifacts and troubleshoot Build issues..
* Having knowledge in writing Shell and Yaml scripts to automate the tasks.

# WORK EXPERIENCE:

* Worked as a DevOps Engineer for **TCS**, Hyderabad from April-2022 to November-2023
* Worked as a DevOps Engineer for ISG NOVASOFT TECHNOLOGIES LIMITED from Sep-2019 to March-2022

# EDUCATIONAL QUALIFICATION:

* Completed Post graduation from SVU, TIRUPATI.

# TECHNICAL SKILLS:

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| --- | --- |
| **Operating Systems** | Windows, Linux |
| **Scripting Languages** | Shell script, Ymal and Groovy |
| **Application Server** | Tomcat |
| **Version Control Tool** | SVN, GIT and GitHub |
| **Continuous Integration Tools** | Jenkins |
| **Build Management Tools** | Ant, Maven |
| **Containerization Tool** | Docker, Kubernetes |
| **IAC Tools** | Terraform |
| **Deployment & CM Tool** | Ansible |
| **Monitoring Tool** | CloudWatch, Grafana and Prometheus |
| **Cloud Platform** | AWS |

**PROJECT SUMMARY:**

# Project 1

**Client : Wintrust banking project**

**Role :** DevOps Engineer

# Roles and Responsibilities:

* Used Kubernetes for creating new Projects, Services for load balancing and adding them to Routes by accessing from outside, created Pods through new application and controlling, scaling and troubleshooting pods through SSH
* Created Clusters using Kubernetes and worked on creating many pods, replication controllers, services, deployments, labels, health checks and ingress by writing YAML files.
* Provisioned the highly available EC2 Instances, S3, VPC etc.. using Terraform
* Coordinate with the Development, Database Administration, QA, and IT Operations teams to ensure there are no resource conﬂicts.
* Created users and groups using IAM and assigned individual policies to each group.
* Created SNS notifications and assigned ARN to S3 for object loss notifications.
* Created load balancers (ELB) and used Route53 with failover and latency options for high availability and fault tolerance.
* Configured Security group for EC2 Window and Linux instances and also for Ansible master.
* Experience with monitoring tools such as Cloud Watch.
* Played a key role in automating the deployments on AWS using GitHub, Ansible and Jenkins.
* Managed deployment automation using Packer-Docker Terraform to automate system operations.

Handled work from initial stage of development to create branches, make developers follow standards creating build scripts, enabling automating the build process and deploy process by using Jenkins plugin

* Analyzed and resolved conﬂicts related to merging of source code for GIT.
* Configured application servers (Tomcat) to deploy the code.
* Created and configured multiple instances on Tomcat Server for diﬀerent teams.
* Implemented a Continuous Delivery pipeline with Docker and AWS.
* Extensively used Docker for virtualization, Ship, Run and Deploy the application securely to fasten Build/Release Engineering.
* Evaluated Composers for Docker container orchestration.
* Management and design of integrated build pipelines using continuous integration workﬂows such as Jira, Git, Jenkins, Docker, and Nexus. Implemented and maintained the monitoring and alerting of production and corporate servers/storage using AWS Cloud Watch.
* Deployed JAVA/J2EE applications through Tomcat Application servers.

# Project 2

**Client : Banque Saudi Fransi**

**Role :** DevOps Engineer

# Roles and Responsibilities:

* Developed Configuration Management GIT from scratch and prepared documentation accordingly.
* Involved in pushing the code to GitHub.
* Assist with maintaining current build systems, developed build scripts, and maintained the source control.
* Working with build servers using AWS: Importing volumes, Launching EC2, creating security groups,load balancers.
* Managed the source codes repository of multiple development applications using GIT version controltools.
* Automated the tasks using Ansible.
* Involved in setting up container orchestration such as Kubernetes.
* Writing Kubernetes manifest files for Deployments in Kubernetes cluster.
* Worked with development, architectural teams in designing and setting up the infrastructure to ensureCI/CD workflow of the project.
* Enabling customers to better manage software development, deployments and infrastructure with toolssuch as Ansible, Jenkins and GitHub.
* For agile development in a Fast-Paced Engineering Environment Proposed, implemented andadministered Jenkins and designed continuous delivery pipelines.
* Provisioning Kubernetes Clusters and deploying applications on Kubernetes.
* Work on maintaining Kubernetes Clusters and Kubernetes Services.
* Performed all necessary day-to-day Subversion/GIT support for the projects.
* Integrated GIT into Jenkins to automate the code check-out process without anyhuman intervention by implementing the hook process in GIT.
* Automation Engineer for Developing Build and deploy tools like Jenkins.
* Involved in the functional usage and deployment of applications in Apache Tomcat Server
* For the development of build artifacts on the source code used MAVEN as a build tool.
* Used JIRA as ticket tracking in cases, change management.
* Participate in all the release meetings to identify and mitigate potential risks associated with thereleases.

# Project 3

**Client :** Suncorp, Australia

# Roles and Responsibilities:

* Automated the build and deployment process across all Environments (Dev, Test, UAT and Production) utilizing Jenkins.
* Re-structured the GIT repository to best suit for CI and CD methodologies.
* Conducted Knowledge Transfer of how Jenkins Continuous Integration works.
* Written bridge scripts to move artifacts from Snapshots repository to Releases repository for Nexus.
* Made enhancements to current CI/CD pipeline to reflect the Agile Methodology and be able to deliver the code to the Environments for a thorough testing.
* Involved in setting up container orchestration such as Kubernetes.
* Given training sessions to Dev Team, Test Team about the functionality and usage of SVN, Maven and Jenkins in respect to Agile Methodology and adopting a better DevOps Culture.
* Updated all the Jenkins Continuous Integration jobs, dependent jobs, snapshot jobs, release jobs, DB deployment jobs to reflect GIT changes.
* Provisioning Kubernetes Clusters and deploying applications on Kubernetes.
* Work on maintaining Kubernetes Clusters and Kubernetes Services.
* Defined AWS Security Groups which acted as virtual firewalls that controlled the traffic allowed to reach one or more AWS EC2 instances.
* Maintain and monitor all system frameworks and provide after call support to all systems and maintain optimal Linux knowledge.
* Managed the source codes repository of multiple development applications using GIT version control tools.
* Merged release branches to the master after the production release and resolved the conflicts if any during the merge in GIT.
* Implemented a Continuous Delivery pipeline with Jenkins and AWS.
* Developed Deployment shell scripts to deploy into Tomcat servers with the help of Jenkins.
* Written build scripts from scratch for new projects and updated scripts for existing projects.
* Expertise in Enterprise repository management tools like Nexus, Artifactory etc.
* Maintained local team repositories and Organization's central repositories for Maven.
* Troubleshooting deployment, infrastructure and start up issues on various application servers product line.