

DevOps Engineer

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OVERVIEW:

Over all **4** years of professional experience, with **2** year of professional **AWS DevOps** Engineer **2** years of professional **Linux Admin** career experience. Configuration management tools which include Project Setup, Build Automation, Continuous Integration, Container Orchestration, CI/CD workflow using -Jenkins.

Professional summary

- Working experience with Continuous integration using **Git, Maven** and **Jenkins**.
- Extensive hand son experience with **Jenkins**, for Continuous Integration and end-to-end automation tools for deploying.
- Experience in Container Orchestration tools like **Kubernetes Cluster Services**.
- Extensively worked on **Dockers, creating Docker images and Docker containers**.
- Good Experience in writing the **Docker file**.
- Hands-on experience with version control tool like **GIT**.
- Hands-on experience in automating build process using **Jenkins CI Tool**.
- Administration and creation of Individual **Jenkins jobs**, including automatic generation, reporting and alerting of build failures, and build status indicators.
- Experience on Application Server **Apache Tomcat**.
- Experience on Build Tool **Maven**, Repository Manager **Nexus**.
- Experience in Configuration management tool like **ANSIBLE**.
- Experience in writing **Ansible playbook**.
- Experience in Amazon Web Service resources like **EC2, AMI, VPC, S3, IAM, ELB, RDS, Route 53, Auto Scaling, Cloud formation and Cloud Watch**.
- Experience in using **JIRA** for project and task management.
- Application Deployment and environment configuration using **Ansible**.
- Integrated CI/CD workflows with **Sonar-Qube** for static code analysis.
- Integrated Jenkins with Nexus for storing artifacts and Docker Images.
- Experience in automating the infrastructure in **AWS** using **Terraform**.
- Good work experience in **end-to-end Building, deploying and configuration process**.

- Having experience using **Maven** as a build tool for building deployable artifacts from source code.
- Managed cloud instances via **cloud watch** monitoring tool and action the alerts accordingly.
- Responsible for understanding and implementing solutions to meet desired business outcomes and standards sustainably.
- Participate in design, build, and on-call support of various cloud, container, and on-premises platforms through standalone and integration operations.
- Responsible for ensuring that operational and service level agreements are operationally met through **SLI** and **SLO** monitoring, analysis, and incident responses.
- Monitor, administer, and operate multiple clusters across data centers and in public cloud, primarily in **Python and Java**.
- Actively participate and contribute to code reviews and technical design documents, with an eye toward identifying performance and reliability bottlenecks.
- Strong experience with Linux administration and good understanding the various Instrumentation, Logging, and Metrics/Monitoring using tools like **Dynatrace, Splunk, ELK, Cloud-Watch, BMC**.
- Experience in **DNS, TCP/IP, UDP, Routing and Load Balancing**.
- Good knowledge of Amazon Web Services (AWS) and/or other relevant Cloud Infrastructure.

Qualification

- **B.Com** from **Swami Vivekananda Memorial (Autonomous) College**, 2019.

Work Experience

- Working as a **Test Engineer** in **Global Soft Lab Pvt. Ltd, Noida** from **August 2019 to June 2021**.
- Working as a **DevOps Engineer** in **Global Soft Lab Pvt. Ltd, Noida** from **July 2021 to till date**.

Technical Skills and infra used:

Operating Systems	Linux, Windows
Version Control Tools	GIT, GITHUB
Primary Skills	DevOps
Scripting Languages	Shell script, python
Application Servers	Apache Tomcat
Continuous Integration Tools	Jenkins, AWS DevOps
Tracking tools	Jira, Service Now
Web servers	Apache
Tools	Sonar-Qube
Containerization tool	Docker
Centralized Monitoring Tool	ELK
Cloud Services	Amazon Web service,
Container Orchestration	Kubernetes, Docker swarm
Configuration Tools	Ansible
System Level Monitoring	Prometheus and Grafana, Cloud watch
Iaas	Terraform
Artifactory Storage	Nexus, S3
Cloud Knowledge	AWS, Azure, GCP

PROFESSIONAL EXPERIENCE**Project: 2**

Client : NOVARTIS (SWIZERLAND)
Domain : DevOps
Designation : Kubernetes ADMIN
Duration : April 2022 to till date

Roles & Responsibilities:

- Manages Kubernetes environment, with expertise in installing, configuring, and administering Kubernetes distributions in self-hosted production environment.
- Handled more than 184 incident tickets and 87 task (deployment tickets) in one year period along with developing proficiency and maintaining CI/CD pipelines and Ansible scripts.
- Proficient in containerization technologies, with experience in Docker containers and solid understanding of networking and firewall concepts in Kubernetes infrastructure and application delivery.
- Experienced in DevOps tools such as JenkinsX, Tekton, and GitLab, and logging and monitoring tools such as Grafana, Prometheus, and ELK stack.
- Collaborated with multiple teams on projects with varying degrees of flexibility/rigidity at different points in the development cycle, demonstrating ability to maintain positive working relationships.
- Skilled in incident management, change management, and problem management, with proficiency in managing and administering incident, problem, and service request queues.
- Expertise in troubleshooting, diagnosing, and correcting systems-related issues as they arise, monitoring and reviewing Kubernetes dashboards, logs, and critical alerts to ensure system issues are identified, escalated, and addressed as quickly as possible.
- Reduced 30 % of inflow of tickets from the job failed alerts across 3 environments i.e. Development, Quality Analysis and Production.
- Led the implementation and maintenance of Kubernetes infrastructure, including cluster design, deployment, and upgrade, ensuring compliance with security and compliance policies.
- Developed and maintained CI/CD pipelines for various applications and services, integrating different tools and services such as Git, Jenkins, SonarQube, Artifactory, and Kubernetes.
- Provided technical leadership and mentorship to junior team members, sharing knowledge and best practices for Kubernetes, DevOps, and infrastructure as code.

Environment: Kubernetes management, Infrastructure management, Containerization technologies, Networking and firewall concepts, Shell scripting, Ansible, DevOps tools (JenkinsX, Tekton, GitLab), Logging and monitoring tools (Grafana, Prometheus, ELK), Project management.

Project 1

Client : Jio
Domain : Cloud platform
Designation : AWS DevOps Engineer
Duration : July 2021 to April 2022

Roles & Responsibilities:

- Lead the DevOps team and support 100+ developers being the single POC of DevOps engineer for all releases and in daily activities of build and deployment cycles. First production launch was a success with no glitches in the release process
- Automate Build and Release process by introducing Gradle Plugins concept which enables auto tag creation and versioning. This helped developers a lot in managing artifacts during releases.
- Optimize CI/CD pipelines in most efficient way to enable easy reporting of test cases and proceed with deployments based on test success reducing the manual interventions during the lifecycle of a deployment
- Lead the migration activity of SCM from Bitbucket to GitHub and facilitate a smooth migration process with no interruption to active development.
- Work with QE to automate various test frameworks like Chaos testing, BDD testing and other performance tests and integrate them in the current CI/CD pipeline
- Working with developers to understand project requirements and help create application environments and on-boarding new projects.
- Experience with container-based deployments using docker, working with docker images, packaging artifacts (jar, war, python libs, gem) and configuration files using gradle.
- Writing docker file, creating deployment scripts and service files(yaml) to deploy to the cloud environment using Kubernetes.
- Create/build, (pre-PROD and PROD) containerized deployment scripts, software release pipeline and CI/CD infrastructure to support the Risk fulfillment product that was launched across 50+ countries.
- Worked with image snapshots, attaching to a running container, removing images, managing directory structure and managing containers.
- Experienced in Application deployment with B/G Deployment strategy using docker, supervisor, Kubernetes into clustering.
- Experienced in writing git hooks.
- Debug and resolve multiple build errors on Teamcity/Jenkins on a daily basis and also any deployment errors in Kubernetes cluster
- Configured monitoring services using Splunk and integrated applications to it
- Developed automated rollback deployment on Staging/Production server. Purpose is to undo previous deployment in database, properties files and war files changes.

Environment: Gradle, Maven, Jenkins, Kubernetes, Shell Script, Python, Bit Bucket, GIT, AWS, Linux, Docker, Splunk.

Declaration:

I hereby declare that the information above is true and correct to the best of my knowledge and belief and can refer above for verification.

Biswojit Jena