**Senior DevOps Engineer**

**Name: Uday Kiran**

**Email:** [**Udaykiran0595@gmail.com**](mailto:Udaykiran0595@gmail.com)

**Mobile: +1 5163883173**

**Professional Summary:**

* **10** years of experience in IT industry with major focus on **DevOps, Software Configuration and Build/Release Management.**
* Extensive Experience with **AWS (Storage, Application Services, Deployment and Management)** and managed servers on **AWS platform instances** using **Puppet, Ansible configuration management**.
* Experience in **CI** (Continuous Integration) and**CD** (Continuous Deployment) methodologies using **GITLAB,** **Jenkins and Bamboo.**
* Experience in creating, debugging, diagnosing, and troubleshooting, build scripts written in **ANT, Maven** on Linux platform. Experience working with **RHEL7, RHEL6.**
* Extensive experience in scripting languages including **Shell Scripting, Python** and **Ruby Scripting**.
* Experienced working with a configuration management tools like **GIT, CVS, Tortoise SVN**.
* Experience in Branching, Merging, Tagging and maintaining the version across the environments **GITHUB or GITLAB**
* Created and maintained Python scripts for automating the deployment process and using AWS services like Lambda.
* Hands on experience in configuring and maintaining webservers like **Apache Tomcat**, and Application servers like **JBoss**.
* Implemented build stage- to build the Microservices and push the **Docker** container image to the private **Docker** registry.
* Proficient in **AWS** products including EC2, S3, CloudTrail, Quick Sight, SNS, Athena, RDS, CloudWatch, Lambda, Snapshots, Volumes ,IAM, CloudFront
* Experience in implementing merging strategies, Tagging, and delivering using **GIT** as source control.
* Created the naming strategy for branches and labels and implemented continuous integration system with **GIT version control repository**.
* Experience in setting up **Puppet** master, **Puppet** agents for managing enterprise policies, configurations.
* Experience working with **Puppet Enterprise** and **Puppet** Open Source.
* Experience in Configuring and Integrating the Servers with different environments to automatically provisioning and creating new machines using Configuration management/provisioning tools like **Ansible**.
* Created infrastructure in a coded manner (infrastructure as code) using **Puppet, Chef** and **Ansible** for configuration management of virtual environments, and Vagrant for virtual machine and resource control.
* Experience in authoring **pom.xml files**, performing releases with the **Maven release plugin** and managing artifacts in **Sonatype NEXUS repository.**
* Experience in working with Technical Architects, Senior Developers, Testers, Senior Management, and IT Team.
* Created Development Environments in Amazon Web Services using services like VPC, ELB, EC2 and RDS instances.
* Worked on setting up the life cycle policies to back the data from **AWS** S3 to AWS Glacier, Worked with various **AWS, EC2, VPC, Route53** and **S3** CLI tools.
* Managed environments DEV, SIT, QA, UAT and PROD for various releases and designed instance strategies.
* Experience in centralizing the testing approaches in various projects. Reporting the issues in Atlassian JIRA and follow up on bug fixes.
* Experience in installing, managing, and upgrading Atlassian tools and worked on troubleshooting tickets with Bamboo and Bitbucket.
* Worked with different Bug tracking tools like **JIRA, Jira Align**.
* Experience in software methodologies like **Waterfall Model, Agile Methodology** and **Scrum**.
* Proficient in defining, communicating, and fulfilling the project’s goal and breaking complex issues into manageable parts.
* Capable of handling multiple tasks and work efficiently both in a group and as an individual to meet deadlines.
* Participated in all stages of **Software Development Life-Cycle** including architecture, design, implementation, and unit testing.
* Worked on **Agile Scrum Team** and attended daily scrum meetings.

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| **Cloud Platforms** | Amazon Web Services(AWS)-EC2, S3, Lambda, CloudWatch, CloudTrail, Snapshots, Volumes, QuickSight, Athena, IAM, RDS, VPC, SNS |
| **Version Control Tools** | GIT, SVN, Bitbucket, GITHUB |
| **DevOps Tools** | GITLAB, Ansible, Puppet, Jenkins, |
| **Scripting Languages** | Python, Ruby, YAML and Shell Scripting |
| **Containerization Platforms** | Docker, Kubernetes |
| **CDN Tools** | Akamai/Imperva, NCLM |
| **Web Servers** | WebSphere, Tomcat, JBoss |
| **Database** | Oracle, MySQL |
| **Build Tool** | Maven, Gradle |
| **Operating Systems** | RedHat Enterprise Linux, CentOS and Windows |
| **Monitoring Tools** | Splunk and Grafana |
| **Ticketing and Admin tools** | JIRA, Confluence, SharePoint, Figma, |

CAREER PROFILE

Sep 2023 to till date HSBC

**Client HSBC (Remote)**

**Role Senior DevOps Engineer**

**Responsibilities:**

* Remediation of Cloud Vulnerabilities related to multiple AWS resources like EC2, S3, Volumes, Snapshots, RDS, IAM, API Gateway.
* Worked on the Jenkins jobs to take root volume backup in order to update the Sudo as a part of cloud vulnerability remediation of AWS services.
* Supporting the release activities of Metro, TMO and AWL applications by deploying the source code through the integrated tools GITLab, Conducktor and PPT tools.
* Work closely with development team and SQA team for product releases.
* Involved and responsible for the bi-weekly ON-Call support for Metro Application.
* Monitor cloud vulnerabilities timely manner and also responsible for creating a weekly report.
* Experience in certificate renewals using NCLM.
* Create and maintain continuous build and continuous integration environments in **Scrum** and **Agile** projects.
* Involved in managing and maintaining the **CI**/**CD** pipeline using DevOps Toolset which includes Continuous Integration of **GITLab**, **Jenkins** and deploying through .
* Working with CI/CD Principles According to Organizational Standards.
* Creating custom roles and playbooks in **Ansible.** Using Templates and Json files in **Ansible** and deploying on docker.
* Automated configuration management and deployments using **Ansible** playbooks and Yaml for resource declaration. And creating roles and updating Playbooks to provision servers by using **Ansible**.
* Deployed and configured GIT repositories with branching, forks, tagging, and notifications. Experienced and proficient deploying and administering **GITLAB**.
* Created/Developed **Ansible** playbooks to support various application servers by automating the process using Ansible scripts.
* Monitored and analysed application performance using Datadog metrics and dashboards
* Set up CI/CD pipelines for Flutter applications using tools like Jenkins, GitLab CI/CD, or GitHub Actions.
* Good skillset on creating Terraform, Ansible and Python Boto3, Cloud Formation Templated and Azure Resource Manager templates to build Services in AWS Cloud
* Installed various agents like Tenable, SentinalOne, SSM using Ansible Scripts.
* Configured monitoring solutions such as Prometheus and Grafana to collect and visualize metrics of GraphQL services.
* Develop a continuous deployment pipeline using **Jenkins**, Ruby/shell scripts.
* Deploying and maintaining production environment using **AWS EC2 instances and ECS with Docker.**
* Implement **AWS** solutions using EC2, S3, RDS, Elastic Load Balancer and Auto scaling groups.
* Developed an internal **Docker** environment for test projects as well as projects with limited lifespan.
* Collaborated with development, operations, and security teams to ensure smooth integration of OpenShift into the DevOps workflow.
* Designed and implemented Python scripts to automate repetitive tasks, streamline workflows, and enhance operational efficiency.
* Developed and maintained CI pipelines using tools like Jenkins, GitLab CI/CD, or TeamCity, leveraging Groovy for pipeline definition and customization.
* Used GITLAB pipelines to drive all micro services builds out to the **Docker** registry and then deployed to **Kubernetes**, Created Pods and managed using **Kubernetes.**
* Managed local deployments in **Kubernetes**, creating local cluster and deploying application containers.
* Created scripts in **Python** which integrated with Amazon API to control instance operations.
* Created Python scripts to interact with RESTful APIs, enabling automated data retrieval, manipulation, and system interactions
* Configured GitHub Actions or Jenkins pipelines to automate the build, test, and deployment processes.
* Developed scripts and templates using tools like Terraform to automate deployment processes on GCP
* Use **Amazon RDS** to manage, create snapshots, and automate backup of database.
* Enabled the **Amazon** CloudWatch to monitor major metrics like Network packets, CPU utilization, and load balancer.
* Document project's software release management procedures with input decisions.
* Involve in setting up **JIRA** as defect tracking system and configured various workflows, customizations, and plugins for th**e JIRA** bug/issue tracker.
* Diagnose and resolve issues related to Flutter app development, CI/CD pipelines, infrastructure provisioning, and deployment automation.
* Documented infrastructure configurations, CI/CD pipelines, and best practices for GraphQL development and operations.
* Integrated Terraform with monitoring and logging tools to track infrastructure changes, monitor resource utilization, and troubleshoot issues proactively
* Integrated GitHub with CI/CD tools like Jenkins, Travis CI, or CircleCI to achieve seamless automation.
* Identified and resolving issues with OpenShift clusters and applications.
* Utilized Groovy-based frameworks such as Gradle or Groovy DSLs for infrastructure provisioning and configuration management, ensuring consistent and scalable infrastructure deployment.
* Work with **AWS** Cloud management and **puppet** Automation.
* Automation of daily tasks using **Shell** and Python scripts.
* Experience in retrieving the metrics from the monitoring tools like Grafana and Splunk.

**Environment:** AWS, Ansible, Docker, Kubernetes, Jenkins, CI/CD, GITLab, JIRA, Splunk, Maven, Python, SQL, NOSQL, Shell, YAML, Ruby, Linux, RHEL.

Oct 2022 to Aug 2023 INTUIT

**Client Intuit, Mountain View, CA**

**Role Devops Engineer**

**Responsibilities:**

* Create the automated build and deployment process for application, re-engineering setup for better user experience, and leading up to building a continuous integration system for all our products.
* Manage Code Repository by, maintaining code repository in **GIT** and improved practices of branching and code merging to custom needs of development team.
* Implement **Jenkins** as Continuous Integration Server for Installation, Configuration, Design and Administration, and integrating tools with other systems.
* Troubleshoot the build issue during the **Jenkins** build process.
* Hands on experience of Build & Deployment phase and usage of Continuous Integration **(CI/CD)** tools, build configuration, Maintenance of build system, automation & smoke test processes, managing, configuring, and maintaining source control management systems.
* Developed custom Ansible modules and Terraform providers in Python to address specific infrastructure requirements and improve deployment accuracy.
* Configure logging mechanisms (e.g., ELK stack) to collect and analyze logs from Flutter applications running in production environments.
* Implemented alerting and notification systems using Datadog's event-driven architecture
* Stayed updated with emerging technologies and industry trends related to GraphQL and DevOps practices.
* Automated workflows by connecting GitHub with other DevOps tools such as Docker, Kubernetes, and Terraform.
* Install and administer **GIT, Jenkins** and **Artifactory.**
* Created Python-based monitoring scripts to track system health, performance metrics, and application logs
* Design and implement fully automated server build management, monitoring and deployment solutions spanning multiple platforms, tools and technologies including **Jenkins** Nodes/Agents, **SSH,** deployment and testing.
* Implement rapid-provisioning and life-cycle management for **Red Hat Linux** using Kick-start.
* Deploy the generated build to **WEB and App server** using the continuous integration process to all Environments
* Installed/Configured/Managed **Puppet Master**/Agent. Wrote custom Modules and Manifests, downloaded pre-written modules.
* Implemented Terraform Enterprise for infrastructure automation and management, leveraging its features such as state management, policy enforcement, and collaboration.
* Experience working with **Puppet Enterprise** and **Puppet** Open Source.
* Work on creation of **Puppet** manifest files to install tomcat instances and to manage configuration files for multiple applications.
* Managed Terraform configurations using version control systems like Git to track changes, collaborate with team members, and maintain an audit trail.
* Perform the automation using **Puppet** Configuration management. Automation of applications end to end through **puppet**.
* Building Docker images and deploying them to OpenShift environments.
* Created custom tools and utilities using Groovy to streamline DevOps workflows, enhance developer productivity, and improve system monitoring and management.
* Keeping abreast of the latest developments in Git/GitHub and DevOps practices.
* Configured the IT infrastructure as code writing manifests, classes, and modules in **Puppet**.
* Develop the scripts to push patches, files and maintain configuration drift through the **Puppet** tool.
* Automated system configuration using **Puppet** manifests and modules.
* Used tools like Terraform or Ansible to provision and manage infrastructure resources required for Flutter app development and deployment.
* Integrated **AWS** Cloud Watch with **AWS EC2** instances for monitoring the log files, store them and track metrics.
* Creating CloudWatch alerts for instances and using them in Auto scaling launch configurations.
* Build servers using AWS, importing volumes, launching EC2, RDS, creating security groups, auto-scaling, load balancers (ELBs) in the defined virtual private connection
* Scripting & automating tasks using **Python** for backup, monitoring, and file processing.
* Automation of systems administration functions via**Python**, Shell.
* Conducted load testing using tools like JMeter or Gatling to identify and optimize performance bottlenecks in GraphQL APIs.
* Collaborated with teams to manage version control of Groovy scripts and configurations using tools like Git, ensuring proper branching, merging, and code review processes.
* Integrating OpenShift with CI/CD pipelines to automate application deployments.
* Monitor software, hardware, and/or middleware updates and utilizing technologies like **Jenkins**, **Maven, and Git**.
* Use the **JIRA** for bug tracking, creating the dashboard for issues.

**Environment:** GIT, Jenkins, Artifactory, Red Hat, CI/CD, Puppet, JIRA, Ant, JUnit, Python, Ruby, Shell Scripts.

June 2020 to Sep 2022 United Health Group

**Client United Health Group**

**Role DevOps Engineer**

**Responsibilities:**

* Implementing a Continuous Delivery framework using **Jenkins, puppet, and Maven** in **Linux** environment.
* Experience working on **Docker** hub, creating **Docker** images, and handling multiple images primarily for installations and domain configuration.
* Responsible for the Installation, Configuration and Administration of JBoss/Wildfly Application Server and configured the **JBoss** domain on **RHEL**.
* Prototype CI/CD system with GitLab on GKE utilizing Kubernetes helm and Docker for the runtime environment for the CI/CD systems to build and test and deploy.
* Configured **GIT** with Jenkins and schedule jobs using Poll **SCM** option.
* Written wrapper scripts to automate deployment of cookbooks on nodes and running the **Chef** client on them in a Chef-Solo environment.
* Integrated Python scripts with CI/CD tools like Jenkins, GitLab CI, or GitHub Actions to automate build, test, and deployment processes.
* Integrated GraphQL APIs into CI/CD pipelines for efficient delivery of features and updates.
* Integrated Terraform with CI/CD pipelines to automate the deployment of infrastructure changes, facilitating rapid and reliable delivery of applications.
* Collaborated on infrastructure monitoring and troubleshooting with Datadog's network performance monitoring
* Implemented integrations with various APIs and web services using Groovy, facilitating communication between different components of the DevOps tool chain
* Participated in GITLAB POC and Migrated all Repo's from GITHUB to GITLAB.
* Created **puppet manifests** and modules to automate system operations.
* Conceived, designed, installed, and implemented **Puppet** configuration management system.
* Setup centralized logging solution using OMD Nagios, ELK stack (Elasticsearch, Logstash and Kibana), Redis, and custom monitoring scripts
* Migrated Mesos/Marathon to docker swarm for the micro services project.
* Used **Puppet** to deploy ELK for automating continuous deployment (CD) and configured Slave Nodes and deployment failure reporting.
* Configured monitoring solutions such as Prometheus and Grafana to collect and visualize metrics of GraphQL services.
* Responsible for build and deployment automation using Docker containers, Vagrant and Chef.
* Work with **AWS** Cloud management and **puppet** Automation.
* Integrated **AWS** Cloud Watch with **AWS EC2** instances for monitoring the log files, store them and track metrics.
* Deploying Docker images on Dcos, Mesos using marathon.
* Worked on deployment automation of all the Microservices to pull image from the private **Docker** registry and deploy to Docker swarm cluster using **Puppet**.
* Coordinated infrastructure configuration with tools like Ansible, Puppet, or Chef to ensure consistent state across all environments
* MySQL container deployment in Docker using Python and monitoring of these containers.
* Implemented CloudWatch metrics on client **AWS EC2, S3** resources.
* Involved in development of test environment on **Docker** containers and configuring the **Docker** containers using **Kubernetes**.
* Developed Python scripts to automate security audits, vulnerability assessments, and compliance checks, ensuring adherence to organizational and regulatory standards.
* Used **Kubernetes**to orchestrate the deployment, scaling and management of Docker Containers.
* Collaborated with development support teams to setup a **continuous delivery environment** with the use of **Docker**.
* Creating the build script using the ANT as build tool, for Java web applications.
* Configured JDBC connection pools and data sources for JBoss/Wildfly server instances.
* Used ANT and **MAVEN** as a build tool on java projects for the development of build artifacts on the source code.
* Configured the IT infrastructure as code writing manifests, classes, and modules in**Puppet**.
* Develop the scripts to push patches, files and maintain configuration drift through the **Puppet** tool.
* Used **GIT** to keep track of all changes in source code.
* Leveraged Python to build and maintain CI/CD pipelines, incorporating automated testing, deployment, and rollback mechanisms
* Managed **SVN & GIT** art factory for branching, merging, and tagging, resolved merging issues.
* Monitor the health and performance of production systems and applications using DataDog monitoring tool.
* Monitored AWS cloud resources to collect and track metrics by using monitoring service, **AWS Cloud Watch.**
* Converting production support scripts to Chef Recipes.
* Worked on monitoring, apps deployment, **AWS Storage** and AWS EBS (Disk storage).
* Worked on creating the **Docker** containers and **Docker** consoles for managing the application life cycle.

**Environment:** Docker, Puppet, Jenkins, JBoss, Python, Maven, Bitbucket, CI/CD, GIT, AWS, Gitlab, GitHub, Kubernetes, Nginx, DataDog, JIRA, Linux.

Nov 2017 to May 2020 Northern Trust Bank

**Client Northern Trust Bank**

**Role DevOps Engineer**

**Responsibilities:**

* Create plans and ensured Release management deliverables are met on time, risks are appropriately mitigated, and code implementation status is communicated regularly to Application Manager.
* Analyze and design process of release flow for various applications with maximum utilization of the tools **Maven** and **Jenkins.**
* Design and Configure release process through **Jenkins, JIRA.**
* Monitor **Jenkins** jobs and contact team if progress is not evident on fixing stability issues
* Responsible for support maintenance of home-grown release tool in production and test servers.
* Design the environment with options of automations to build to reduce the risk of manual error and time consumption during release.
* Develop build scripts using **Jenkins** as the build tool for creating Artifacts
* Experience in trouble shooting and automated deployment in house device panel**.**
* Perform manual builds to troubleshoot issues occurring from inconsistent codes on the different environments and email the team when the build and deployment is completed.
* Created Python-based monitoring scripts to track system health, performance metrics, and application logs.
* Accountable for design and maintenance of the **GIT** Repositories, views, and the access control strategies.
* Prepared **UNIX** scripts to schedule jobs and perform data loading for Print Composition services.
* Use various **Java** and **J2EE** APIs including **JDBC**, **XML**, **VXML**, **Servlets**, **JSP** and **JavaBeans**. Worked on enhancement of the GUI using Extjs.
* Implement front end interface to manually trigger alerts using **HTML**, **CSS**, **and Java** **Script**.
* Used **JIRA** as ticket tracking and workflow tool. Created**JIRA** Support Project/Agile board to track support issues.
* Developed build and deployment scripts using **ANT** and **MAVEN** as build tools in Jenkins to move from one environment to other environments.

**Environment:** Ant, Subversion, GIT, Maven, Jenkins, CI/CD, Java/J2EE, JIRA, UNIX, Perl, Shell, Jenkins, Python.

July 2013 to Oct 2017 VALUEMOMENTUM

**Client ValueMomentum, Hyderabad, India**

**Role System Administrator**

**Responsibilities:**

* Identify, troubleshoot, and resolve problems with the OS build failures.
* Performing kernel and database configuration optimization such that it limits I/O resource utilization on disks.
* Advanced the installation and configuration of Red Hat Linux over the network using **NFS** and **FTP** and supervised the implementation and maintenance of **DHCP, NFS, NIS and DNS.**
* Performed automated installations of Operating System using Jumpstart for Solaris and Kick- start for **Linux**.
* Install and Configure Virtual Machines (VM), VM tools on ESX boxes from the GUI and console in VirtualBox, VMWare and OpenStack.
* Administered and Configured **RHEL 4/5** operating systems environment and added patch-using tools like Yum, Repository and **RHEL** satellite server and Sun Update manager for Solaris server.
* Created and managed user accounts, security, Access Control Lists, permissions, disk space and process monitoring in Red hat Linux.
* Applying OS patch and upgrade in multi-platform (**RedHat/Ubuntu/Windows**) on regular scheduled basis.
* Configuring DNS, DHCP, NIS, NFS in **Red Hat Linux 5.0** & other Network Services, **Linux kernel**, memory upgrades and swaps area.
* Administration/Configuration of Print Servers/Clients in the Network, planning, configuration, and maintenance of connectivity for servers as well **TCP/IP** configuration.

**Environment**: Red Hat Linux, VMWare, OpenStack, Ubuntu, Linux server, VirtualBox, RHEL.