**GOUTAM**

**Sr DevOps Engineer**

***Professional Summary*:**

* Over 9+ years of experience working in the areas of DevOps engineering with core concentration towards Continuous Integration, Continuous Delivery, Build, Deployment and Environment Management helping organizations deliver better tested, certified and packaged binaries to PROD environments.
* Responsible for infrastructure management and configuration changes
* Have good understanding of various DevOps ideologies bringing together CI/CD methodologies along with tools like AWS, Chef, GIT & Jenkins in making build/release operations teams more efficient and to compete along with Dev Teams in Agile environments and deliver Ops task on time.
* Creating dockerimages for developers to test the code locally.
* Good understanding of OpenShift platform in managing Docker containers Kubernetes Clusters.
* Creating and handling multiple **Docker images** primarily for middleware installations and domain configurations. Dockized applications by creating **Docker images** from **Docker file.**
* With a strong background in Build/Release Management, Environment & Infrastructure areas, I can support and enhance various Automation activities helping software delivery and deployments to be reliable and on time.
* Good understanding of the principles and best practices of Software Configuration Management (SCM) in Agile, scrum, and Waterfall methodologies.
* Experience in pivotal cloud foundry setup configuration.
* Binding services to the deployed applications.
* Expertise in several areas of AWS like EC2, EBS, ELB, S3, Glacier and cloud watch.
* Provisioned and Configured several testing and lower-level environments on demand via AWS EC2, chef and Jenkins.
* Written chef cookbooks from scratch to automate the middleware installation and configuration tasks (with tomcat) and I have customized cookbooks taken from chef supermarket to meet our daily requirements.
* Experience in Deploying JBoss, Apache Tomcat web server, Oracle web logic and IBM Web sphere.
* On the Chef Server side, I have knowledge monitoring the log files, working with organizations & groups chef management console, and setting up workstations etc.
* **Good** command with knife utility, bootstrapping new nodes, mirroring them to the existing one’s by executing the run lists with required cookbooks.
* Knowledge on setting up CI process for chef cookbooks, peer reviews, cookbook freezes, source code maintenance of cookbooks etc.
* Good Command in Basic Linux, Solaris, AIX, and Unix administration.
* Knowledge in IIS and hands on experience with WebSphere, JBoss and WebLogic deployments.
* Experience using Bookshelf to manage dependencies, setting up test kitchen to validate new cookbooks and used custom resources, chef handlers, data bags etc...
* I used food critic & robocop to implement Code/Peer review process for chef cookbooks validation.
* Good command on all areas of Jenkins from installation of master on Linux/windows to setting up 10’s of master/slave configuration, maintaining the workspaces, backups, securing Jenkins, LDAP integrations, Plugin management and reports generation.
* Created and maintained several downstream pipeline job configurations for various applications with multiple releases running in parallel.
* I have installed and implemented several plugins for VM’s provision via AWS, code quality analysis, job duplications etc...
* Experience in integrating Unit Tests and Code Quality Analysis Tools like Junit, Clover, PMD, find bugs and Check style.
* Experience in Branching, Merging, Tagging, and maintaining the version across the environments using SCM tools like Subversion (SVN), GIT (GitHub)Clear case, Harvest and VSS.
* Used ANT scripts, Make and Maven for Build process.
* I have experience in Bug Tracking tools like Jira, ClearQuest and HP Quality Center.
* Highly skilled in the employment of ITIL Best Practices with proven leadership in the Incident, Problem, Change, Availability, and Service Delivery as well as in Process Building.
* Performed Database administration tasks for MS SQL server and hands on experience with Oracle.
* Responsible for all aspects of the Software Configuration Management process including Code Compilation, Packaging, Deployment, Release Methodology and Application Configurations.
* Experience in 24x7 on-call production support and trouble-shooting problems related to BEA.
* Worked on code migration activities for Enterprise Application Integration (EAI) using Tibco, setting up new interfaces, deployments and GV value changes to existing Interfaces.
* Team player with excellent Interpersonal Skills, Self-Motivated, Dedicated and Understanding the Demands of 24/7 System Maintenance and with good Customer Support Experience.
* Implemented Continuous Delivery setup to created packages from Jenkins and to be deployed to Applications servers through Run deck jobs with chef as the backend configuration management tool.
* Work closely with QE team to automate testing and tie them as part of CI and provide feedback as soon as there is change in source code.
* Manage production deployments, work closely with OPS to make sure all the tasks required for the production deployments are captured and automate them using chef.
* Used nose tests to run unit tests and provide feedback to developers as soon as there is a check-in to GIT.
* Worked with coverage.py for generating code coverage metrics to the management.
* Explored many tools and done many POC’s for the SDLC tools.

***Technical Skills***

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| --- | --- |
| Build Tools | Maven |
| Databases | Oracle, MYSQL |
| Scripting Languages | Shell scripting, Python Scripting, YAML |
| SCM Tools | SVN, GIT |
| Monitoring Tools | Cloud Watch |
| Configuration Management | Ansible |
| Operating System | Redhat, Linux, Windows |
| Containerization Tools | Docker, Kubernates |
| Cloud Services | Azure, AWS |
| PRODUCTION SUPPORT / APPLICATION SERVER | Web Sphere/Web Logic/ Apache Tomcat/JBOSS |
| CONTINOUS INTEGRATION TOOLS | Jenkins |

***Client: Wells Fargo & Company April 2022 – current Date***

***Location: charlotte , NC***

***Role: Sr DevOps Engineer***

**Responsibilities:**

* Implemented DevOps culture to **automate/streamline** the manual process through **CI/CD** tools like **Jenkins**, **GitLab** across **Unix/Linux**, and **Windows** Platforms.
* Designed and maintained **GIT** Repositories, views, and access control strategies & resolved all the conflicts raised during the mergers.
* Worked along with the team of DevOps by implementing automation tools which include **Ansible**, **Jenkins**, **GIT**, **Bitbucket**, **Artifactory**, **SonarQube**, **AWS**, for **CI & CD** in **Agile** methodology.
* Designed and deployed **AWS** Solutions using **EC2**, **S3**, **EBS**, Elastic Load balancer (**ELB**), Auto scaling groups and worked with **IAM** to create new accounts, roles, groups.
* Deployed and managed many servers utilizing both traditional and cloud-oriented providers (AWS) with the **Ansible Platform** configuration system.
* Utilized **Ansible** to manage Web applications, Environments global configuration **Files, Users, firewalls, Mount points**.
* Installed, configured, and administered **WebLogic**/**WebSphere** Servers on **RedHat Linux** and **Windows** platforms.
* Installed & configured Jenkins master that was served by 30 different slaves supporting 9 different applications with various release life cycles and multiple CI **pipelines** setup on project branches.
* Configured & maintained Jenkins Pipeline to implement CI & CD process for major releases and integrated the tool with Maven to schedule the builds.
* Migrated on-premises **mongo DB** data to **AWS Document DB** (fully mongo compatible) by creating endpoint connections and replication instances leveraging AWS DMS (database migration service).
* Installed, Configured & Maintained the **frog** repository manager for sharing the artifacts within the organization.
* Installed and Configured Chef Server, Workstation, Client servers, and nodes. Written several recipes, cookbooks in **CHEF** to automate the environment provisioning, Middleware Infrastructure Installations.
* Developed **TERRAFORM** templates to launch EC2’s in the AWS with different services like auto-scaling, Load balancer, monitoring, security roles, etc.
* Created Docker images using Docker File, worked on Docker container snapshots, removing images, and managing Docker volumes, and implemented Docker automation solution for CI/CD model.
* Used Jenkins and pipelines to drive all microservices builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes and implemented Docker/Kubernetes infrastructure for Deployment using Ansible playbooks.
* Installed, configured, and managed Jenkins CI tool on Linux machines and using Jenkins Pipelines to push all Microservices builds to the Docker Registry (**ECR**), then deployed to Kubernetes, built, and managed Pods using **Kubernetes**.
* Worked in set-up Secure Sockets Layer (SSL) communication between Web servers & App Servers.
* Created Dashboards in **Nagios and CloudWatch** for monitoring End-User Response Time & Requests.

**Environment:** Ansible, Jenkins, GIT, Artifactory, SonarQube, AWS, EC2, S3, EBS, ELB, Splunk/AppDynamics/Grafana/Nagios/CloudWatch, Docker, Kubernetes, SSL, WebLogic/WebSphere Server, Terraform, CHEF.

***Client: United Health Group Inc June 2020 – March 2022***

***Location: Minneapolis, MN***

***Role: AWS/ DevOps Engineer***

**Responsibilities**

* Created **CI/CD** pipelines using **GitHub**, Build/Release Management tool **Maven**, **Jenkin**, and Change/Incident Management and Cloud Management.
* Created **Jenkins** pipeline of Upstream and Downstream jobs with multiple stages to automate the process deployments across environments, including manual email alerts to Slack channel.
* Implemented a Continuous Delivery Pipeline with **Docker**, **Jenkins**,and **GitLab**. Whenever a new branch is created Jenkins automatically attempts to build a new Docker container from it.
* Automated most of the build-related tasks using Jenkins and improved throughput & efficiency of the build system by providing EO/managers rights to trigger a required build.
* Deployed **Docker** Engines in Virtualized Platforms for containerization of multiple applications. Wrote various custom Ansible Playbooks and modules for deployment orchestration, provisioning, configuration management.
* Configured, Managed, and Scheduled **CRONJOB's** for App Accounts and Backup management regularly.
* Created **feature, develop and release** branches in **GitHub** for different applications to support major and minor releases, CI builds & CD deployments based on developer’s request.
* **Deployed, scaled, load balance**, and managing **Kubernetes** Pods with multiple names spaced versions using **Helm** charts.
* Worked with Terraform key features such as Infrastructure as **code, Execution plans, Resource Graphs, Change Automation** and used **Terraform** for versioning infrastructure safely and efficiently.
* Performed **WebLogic/WebSphere/Tomcat** Approver administration tasks such as Installation, Configuration, monitoring, security patches, and performance tuning in **DEV**, **QAT**,and **Prod ENV's**
* Implemented zero-downtime deployment process in **WebLogic/WebSphere** using shell scripts and automated it using **Jenkins**.
* Configured AWS EC2 Instances using **AMIs** and launched instances with requirements of specific applications.
* Created VPC endpoints that enable private access to specific AWS services from our **AWS VPC**, without using public IP addresses and without requiring the traffic data to pass over through the Internet.
* Worked continuously to improve the efficiency of our **build/release/deploy** process driving towards the implementation of Continuous Delivery.

**Environment:** SVN, Maven, Jenkins, Slack, WebLogic/WebSphere/Tomcat, Adobe CQ 5.6, AEM 6.1, CRONJOB, DEV, QAT, Prod ENV's, Kubernetes, Terraform, AWS, AMI.

***Client: Lincoln Financial Group Nov 2017 to May 2020***

***Location: Radnor, PA***

***Role: AWS/DevOps Engineer***

**Responsibilities:**

* Working as DevOps engineer in a group distributed across US, London, and Poland, I was responsible for automation in areas of VM provisioning (AWS), Middleware installation (tomcat) and writing cookbooks to achieve the same.
* Part of chef cookbook code review team before testing out cookbooks using test kitchen and validating with food critic.
* Supported Primarily Java based applications with source codes in GIT and that follow branch by feature methodologies.
* Developed and implemented Software Release Management strategies for various applications according to the agile process.
* Defined the Build and automated Testing Infrastructure. Educated both Development and QA teams with the tools and process.
* Assist users and developers with the setup, installation, and testing of their applications. Interface with users and developers to resolve technical and user problems.
* Participated in weekly release meetings with Technology stakeholders to identify and mitigate potential risks associated with the releases.
* Build Java code and .NET code on to different Jenkins servers as per the schedule.
* Implemented PowerShell remote and script execution.
* Implemented new Process and Policies for Build Process and involved in Auditing.
* Create Chef Recipes, automation tools and builds, and do an overall process improvement to any manual processes.
* Written multiple cookbooks in Chef.
* Rolled out Chef to all servers, and used the chef node database to drive host configuration, DNS zones, monitoring,
* Using web-frontend altered configuration data in chef's node database.
* Created chef (data bag) driven configuration of user accounts.
* Managed pkg/apt build system and package repositories.
* Maintain 150 servers and 8 repositories for releases and check performance to reduce the time taken in each activity.
* Build, Configure, Manage and Coordinate all Build and Release Management activities.
* Responsible for all the build and release activities in consumer facing Applications, client software rollouts, release planning and support bi-weekly releases.
* Experience in Migrating Projects from ANT to Maven.
* Built Continuous Integration Environment (Jenkins, Sonar, and Nexus) and Continuous Delivery Environment (Chef/Puppet, Yum, rsync).
* Implemented Automated Application Deployment using Chef.
* Written Deployment Scripts and Automation Scripts
* Participated in all Product Release and Patches.
* Managed GIT and SVN as Source Control Systems
* Managed Atlas Sian Tools Confluence, JIRA, and Bamboo
* Managed Sonatype Nexus for Artifact and Dependency Management Systems.
* Defined the Build and automated Testing Infrastructure. Educated both Development and QA teams with the tools and process.
* Managed GitHub Projects and migrated from SVN to GitHub with history.
* Implementing Change Management and Release Management based on the ITIL Framework. Starting up project for Configuration Management Database
* Design ITIL Processes, Procedures integrated with tool capabilities.
* Involved in leading Automation Deployment Team by working with Puppet.
* Involved in building rpms using Maven rpm Plugin.
* Provided support for Artifact Management using Puppet and used Nexusyum Plugin to provide yum Integration from Repository Server.
* Written Puppet Modules for Application Deployment.
* Involved in Dev / QA Deployments and automated using Maven.
* Supported the Developers when there were Conflicts during the Merging process.
* Experience in building .Net Applications using MS Build and deploy them to IIS Servers.
* Extensive knowledge of Multiple Client Operating Systems such as Windows, UNIX, and Linux.

**Environment:**AWS, Chef, Docker, Jenkins, GIT, SQL, Java, ANT, .Net, Maven, Oracle, IIS, Nexus, SVN, GIT (GitHub), Python Shell, Scripting, Tomcat.

***Client: Cisco Jan 2015 to OCT 2017***

***Location: San Jose, CA***

***Role: DevOps Engineer***

**Responsibilities:**

* worked on AWS **environment setup strategies** and managed **multiple AWS accounts** with multiple vpc’s for both production and non-prod where primary objectives included automation, build, and integration.
* practical implementation of **AWS** Cloud Services like **EC2**, **S3**, **VPC, NACL’s, Subnets, Internet gateway, NAT, Route table, CloudFormation, IAM**, **NLB (network load balancer)**, **ELB**, **EBS**, **AWS Lambda**, **ECR,** **EKS, Route 53**, DirectConnect**, Document DB, ELB, NLB, ElasticCache (Redis), Sagemaker.** Used **amazon KMS for Storing and managing Keys used in application access.**
* Configured AWS Identity Access Management (**IAM**) Group and users for improved login authentication. Managing **IAM accounts (with MFA)** and policies and Identity providers to meet security audit & compliance requirements.
* introduced git-flow branching strategy and incorporates CI Automation and integrated in the pipeline.
* Written **Jenkins fil**es to support Pipeline Job’s and Configuring **Multi-Branch Pipeline Jobs to automate Build and deployments by watching Developers Code commits.**
* Designed and Implemented **CI & CD** Pipelines using **Git**, **Jenkins,** **Maven, ECR** and **EKS** from scratch achieving the **end-to-end automation** from **code check in** to **deploying docker images to EKS clusters**.
* Experienced in Build and Deployment of **Java and python-based applications** on different environments like **Dev, Stage,**and **Production**, which includes **designing, development**, and **implementation**.
* **migrated** **on-prem mongo DB** data to **AWS Document DB** (fully mongo compatible) by creating **endpoint connections** and **replication instance** leveraging **AWS DMS** (database migration service).
* installed and **configured** **RabbitMQ** as the messaging middleware behind Cisco's enterprise **proxy** server to enable connectivity to on-prem through Cisco **Runon-SCI**.
* Established the connectivity between a **snowflake** analytic data warehouse for different VPC'S across multiple AWS accounts by enabling the **AWS Private Link** and creating **VPC endpoints**.
* Provisioned and configured the AWS managed services **ElastiCache(Redis),** **Elasticsearch -7.9**, **AWS Sagemaker**, and configured the Cisco's enterprise proxy for **Jupyter Notebooks** in our AWS environment.
* Created **VPC endpoints** that **enable private access** to specific AWS services from our AWS VPC, without using public IP addresses and without requiring the traffic data to pass over through the Internet.
* Created custom **AWS CloudFormation templates**in **JSON**tailored **to our organization requirements**to use them as blueprints for building & deploying **EKS clusters**which will set the **proxy** configured dynamically during the cluster creation.
* expertise in creating **Docker images** using **Docker File**, worked on Docker container snapshots, removing images, and managing Docker volumes and implemented Docker automation solution for **CI/CD model**.
* Extensive experience in installing, configuring, and managing Jenkins CI tool on Linux machines and using Jenkins Pipelines to push all Microservices builds to the **Docker Registry (ECR),** then deployed to **Kubernetes**, built, and managed **Pods** using Kubernetes.
* Experience in **Kubernetes** to **deploy,** **scale**, **load balance**, and manage Kubernetes Pods with multiple names spaced versions using **Helm charts**.
* Worked on the development and implementation of the Helm charts for the deployment of microservices in the Kubernetes cluster.
* Strong hands-on experience on k8’s concepts and implemented features such as **hpa** (horizontal pod autoscaling), **Kubernetes secrets, readiness probe & liveliness probe, Daemon sets, Config-maps, etc.**
* Created **custom roles** in **AWS**, allowing pods to consume these roles using K8'S **Service Accounts**, thus limiting access to AWS resources at **Pod level** and ensuring **security**.
* Created **dynamic routing/load balancing** capability*,* allowing for large application scaling, used **ingress rules**, and a **Network Load Balancer** with the **NGINX Ingress Controller** on **Amazon EKS.**
* Expertise in configuring the monitoring and alerting tools according to the requirement like **Prometheus** and **Grafana**, setting up alerts and deployed multiple **EKS dashboards** for various microservices in K8's.

**Environment:** AWS S3, EC2, KMS, EKS, AMI, VPN, DNS, Route 53, RDS, EBS, Network Load Balancer, CFT, Docker, Kubernetes, Document DB, Bitbucket, RabbitMQ, Jenkins, rally, Maven, Nexus, Apache Tomcat, SonarQube, Junit, Python, Shell Scripting.

***Client: NetScore Jan 2014 to Dec 2014***

***Location: Hyderabad, India***

***Role: Build Engineer***

**Responsibilities:**

* Responsible for setting up and maintaining **Git/GitHub** infrastructure. Developed **Shell scripts** for automation of the build and release process.
* Provided build support for multiple applications, built, and deployed to the production and lower environment.
* Designed and implemented automation deployment using to promote major releases, monthly releases, and patches from **Development, Integration/QA, Staging/UAT, Production**.
* Implemented, maintained, and supported reliable, timely, and reproducible builds for project teams.
* Authored pom.xml files, and performed releases with the Maven release plugin, Mavenization of **Java** projects, and managing **Maven** repositories.
* Used **Maven** dependency management system to deploy snapshot and release artifacts to **Nexus** to share artifacts across projects. Experienced in authoring **pom**.xml files, performing releases with the Maven release plugin.
* Researched and implemented code coverage and unit test plug-ins with **Maven** and handled the build and release management process.
* Analyzed and created daily reports on the status of the releases using **Logwatch** and reported it to the senior operations manager.
* Installed and Configured Jenkins for Automating Deployment and automation solution. Used **Jenkins** for Automating Builds and deployed builds.
* Automated the deployment and server bounce process by creating the scripts using Shell scripts.
* Build artifacts (**WAR’s and EAR’s**) are deployed into a Web logic app server by integrating the **WLST** scripts to Shell Scripts.

**Environment:** Maven, Shell Scripts, WebLogic, Nexus, Ant, Jenkins, GIT, GITHUB.

***Education:***

* Masters in Information technology Management (Campbellsville University, 2020)
* Masters in Computer Science (silicon Valley University, 2015)
* Bachelor’s Degree in Mechanical Engineering (JNTUH, India,2014)