**Ashok Kumar**

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**Professional Summary:**

* Having 10 years of experienceas a DevOps Engineer in **Automating, building, deploying** and releasing of code from one environment to other environment. (**Devops + Release Manager + Middleware**) and working on different automation tools.
* Knowledge and Experience in all Phases of Software Development Life Cycle (**SDLC**),Linux Administration, Software Configuration Management(SCM), Continuous Integration(**CI**), Continuous Deployment(**CD**), Release Management, Cloud Implementations and configurations.
* Designed, configured and managed public/private cloud infrastructures utilizing Amazon Web Services(**AWS**),including EC2, EC2 Container Service **(Docker Containers), Elastic Beanstalk, S3, Cloud Front, Elastic File system, Direct Connect, Cloud Watch, Cloud Trail, Cloud Formation, IAM, EMR**, Elastic Search which allowed automated operations using Chef and Puppet.
* Monitored the automated build and continuous integration process to ensure correct build execution, and facilitate resolution of build/ release failures.
* Good Experience in creating pipeline jobs in **Jenkins** and Monitored the automated build and continuous integration process to ensure correct build execution.
* Build pipeline for continuous integration and continuous deployment by using **Jenkins**.
* Experience using cloud providers and **API’**s for **Amazon** (AWS) with **Cloud Sigma** (EU).
* Experienced with Handling Cloud environments like AWS **(EC2, ELB, S3),**
* Manage **AWS EC2** instance using **Elastic load balance** and Auto Scaling groups.
* Working knowledge of branching and merging code lines in the **GIT & GITLAB** and resolved all the conflicts raised during merges.
* Extensive experience in using **MAVEN**and **ANT**as build tools for building of deployable artifacts (jar, war & ear) from source code.
* Experienced in cloud provisioning tools such as **Terraform** and Cloudformation.
* Responsible for implementing monitoring solutions in Ansible, **Terraform**, Docker and Jenkins.
* Write **terraform** scripts for Cloudwatch Alerts.
* **Terraform** is responsible for provisioning resources across various cloud providers, virtualization platforms.
* **Terraform** uses this state to plan and execute changes, ensuring that infrastructure is created or modified consistently.
* Responsible for managing the complete software delivery life cycle and processing.
* Infrastructure automation using **Ansible**.
* Strong knowledge in SCM tools like **GIT**, **GitLab** and **SVN**
* Implemented **Docker** for creating development environment and QA environment.
* Knowledge in customizing **Docker** images using **Docker** build file.
* Experience hosting an application on GCP using Compute Engine, App Engine, Cloud SQL, Cloud Storage
* Concentration on Cost Optimization with respect to Resource Utilizations in GCP.
* Hands on experience in Creating Network, Firewall rules, VM instances in Google cloud Platform.
* Hands-on experience in creating and provisioning compute Instances using GCP console and Google Cloud SDK.
* Extensively used Jenkins to streamline CI/CD process, automated Master-Slave configurations using temporary slaves.
* Implemented build process with tools like **ANT** and **Maven**.
* Developed Groovy scripts to configure and automate CI/CD pipelines using tools like Jenkins Pipeline DSL (**Declarative or Scripted**), where Groovy is the scripting language of choice.
* Extensively worked Jenkins for continuous integration and for End to End automation for all build and deployments.
* Developed Groovy Script and shell scripts for automating the build and release process.
* Hands on experience in configuring and maintaining various Webservers like **Apache and App servers like Tomcat, Websphere, JBoss.**
* Experience in using Tomcat and Apache web servers for deployment and for hosting tools
* Trouble shooting various problems in different environment like DEV/SIT/UAT/PROD and stages of development using logs files.
* Well organized and proficient with details, excellent technical skills. Extensive experience in providing 24/7 on-call support for enterprise applications running on Application servers.

**Technical Skills**

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| --- | --- |
| Operating Systems | Red Hat Linux, Unix, Aix, Windows,  |
| Build tools | ANT,Maven&Nexus Repository |
| Configuration management tools | Chef,Ansible, Docker, JIRA, Confluence |
| SDLC | Agile, Scrum & Waterfall |
| Continuous Integration tool:  | Jenkins |
| Version control tools | GIT, GITHUB, GITLAB,SVN |
| Ticketing tools  | ServiceNow,Remedy |
| Scripting Languages | Shell Scripting, Groovy Script |
| Cloud Knowledge | AWS, GCP, Docker |
| Database | Oracle, DB2, MySQL |

**Professional Experience**:

**PROJECT #1:**

**Client: Freddie Mac June 23 – Tile Date**

**Role: DevOps Engineer**

**Responsibilities:**

* Involved in application design, develop, plan, code, build, test, release, deploy, monitor, support change, infrastructure, security, microservices, REST APIs, API development, CI CD process, integrate repository, tracking, integration, code build and release management across multiple team and applications using **AWS**,**GCP**,**Jenkins**, **GIT**,**GitLab**, **Chef**,**Docker**, **Kubernetes**, **TerraformAnsible**, **SonarQube**, &**JIRA**.
* Managed and developed Continuous Integration (**CI**) and Continuous Delivery (**CD**) pipeline process, using**DevOps**, **Terraform**, **Jenkins**, **AWS** CodeCommit, CodeBuild, CodeDeploy, CodePipeline, **GIT**, **GitLab**, as version control, **Chef**, **Ansible** as configuration tools, Security scan tools like **SonarQube**, scripting language such as **shell**, **groovy**, &**python**.
* Designing and deploying AWS solutions using EC2, S3, Elastic Load balancer (ELB), auto scaling groups.
* Automated system configurations, upgrades, migration, management infrastructure, workflow, control an access to resources and security in cloud-based environment while implementing and integration using **AWS**,**GCP** orchestration, **Terraform**, Cloud Formation, Identity and Access Management
* Managed and configure **AWS EC2** instances services as per the business needs (EC2, Route53, S3, RDS, Cloud Watch, IAM, SNS and VPC), for **monitoring used Cloud watch, AppDynamics**.
* Implemented blue-green deployment strategies to minimize downtime during releases and enable quick rollbacks in case of issues, contributing to a 90% reduction in user-visible downtime.
* Experienced in creating multiple VPC’s, public, private subnets as per requirement and established connectivity to AWS Resources in another VPC in another region using AWS VPC Peering.
* Experienced in Gitlab CI and Jenkins for CI and for End-to-End automation for all build and CD.
* Worked on **Groovy scripts** to configure and automate CI/CD pipelines using tools like Jenkins
* Create automated tests for your infrastructure, application, or deployment processes using Groovy-based testing frameworks.
* Responsible to create the images (mutable and immutable) to promote the code into Prod.
* Configured Hashicorp Vault & secrets for application.
* Experienced on IAM re-fresh in vault cluster and AWS clusters.
* Implementing hashicorp vault automatic password rotation.
* Code deployment using Jenkins UI, monitoring application release, and resolving deployment issue
* Co-ordinating the Linux/Unix system Administration, System Builds, Server Builds, Installations, Upgrades, Patches, Migration, Troubleshooting and Application health checks

**PROJECT #2:**

**Client: Atradius July 21 – June 23**

**Role: DevOps Engineer**

**Responsibilities:**

* Involved in application design, develop, plan, code, build, test, release, deploy, monitor, support change, infrastructure, security, microservices, REST APIs, API development, CI CD process, integrate repository, tracking, integration, code build and release management across multiple team and applications using **AWS**,**GCP**,**Jenkins**, **GIT**,**GitLab**, **Chef**,**Docker**, **Kubernetes**, **TerraformAnsible**, **SonarQube**, &**JIRA**.
* Managed and developed Continuous Integration (**CI**) and Continuous Delivery (**CD**) pipeline process, using**DevOps**, **Terraform**, **Jenkins**, **AWS** CodeCommit, CodeBuild, CodeDeploy, CodePipeline, **GIT**, **GitLab**, as version control, **Chef**, **Ansible** as configuration tools, Security scan tools like **SonarQube**, scripting language such as **shell**, **groovy**, &**python**.
* Automated system configurations, upgrades, migration, management infrastructure, workflow, control an access to resources and security in cloud-based environment while implementing and integration using **AWS**,**GCP** orchestration, **Terraform**, Cloud Formation, Identity and Access Management
* Managed and configure **AWS EC2** instances services as per the business needs (EC2, Route53, S3, RDS, Cloud Watch, IAM, SNS and VPC), for **monitoring used Cloud watch, AppDynamics**.
* Worked on **Groovy scripts** to configure and automate CI/CD pipelines using tools like Jenkins
* Create automated tests for your infrastructure, application, or deployment processes using Groovy-based testing frameworks.
* Created additional Docker, Slave Nodes for Jenkins using custom **Docker**, **Images** and pulled them to **ECR**.
* **Participated in the release cycle** of the product which involves environments like developments QA and production
* Worked Groovy scripts to automate parts of the version control and code review processes, such as creating pull requests or checking code quality.
* **Assisted end-to-end release process** from the planning of release content through to actual release deployment to production.
* **Executed the planning** of product software releases **AndPerformed clean builds** according to scheduled releases.
* API infrastructure is provisioned using infrastructure as code (IaC) tools
* **Deployed the build artifacts** into environments like **QA**, **UAT** according to the build life cycle
* Discussing with architect and setup on Gitlab project for an application
* **Coordinated with all the teams** before and after the production deployments for the smooth production releases.
* Experienced in Gitlab CI and Jenkins for CI and for End-to-End automation for all build and CD.
* Implementing AMI re-fresh for vault clusters in AWS.
* Discoursing with development team for creating or providing the branches for upcoming changes.
* Integrated GitLab into Jenkins to automate the code checkout process.
* Repository maintenance, audit and security reports and publishing repository usage statistics
* Responsible to create the images (mutable and immutable) to promote the code into Prod.
* Creation and maintenance of libraries and their versions for build
* Code deployment using Jenkins UI, monitoring application release, and resolving deployment issue
* Co-ordinating the Linux/Unix system Administration, System Builds, Server Builds, Installations, Upgrades, Patches, Migration, Troubleshooting and Application health checks

**PROJECT #3:**

**Client: Citi Bank Aug 19 – July 21**

**Role: DevOps**

**Responsibilities:**

* Responsible for Infrastructure code maintenance as a platform operations team.
* Involved in launching instances through automation code Ansible.
* Converted all the Jenkins to Pipelines Job through Jenkins-pipelines repository.
* Setup the Sonarqube dev environment from the automation code.
* Worked with Sonarqube docker containers to login and modify database updates.
* Branching, Tagging, Release Activities on Version Control Tools: GitHub, GitLab.
* Configure Scheduled builds, Nightly builds in CI tool Jenkins
* Implemented a serverless using API Gateway, Lambda and Dynamo DB and deployed AWS Lambda code form Amazon S3 buckets.
* UsedGroovy for Jenkins Pipelines, enabling you to define and automate your CI/CD processes.
* Used Groovy to script pipeline stages, manage build environments, and trigger deployments.
* Develop and maintain automation scripts for managing and deploying applications on AWS
* Used CloudTrail to audit the logs of AWS account activity, including actions taken throughAWS management console,Command line tool AWS SDKs and otherAWS services.
* Deployed, monitored, and maintained AmazonAWS cloud infrastructure consisting of multiple EC2 nodes and VMWare's asrequired in the environment.
* Installed Jenkins on a Linux machine and created a master and slave configuration to implement multiple parallel builds.
* Experience in creating Docker images using a Docker file, worked on Docker container snapshots, removing images andmanaging Docker volumes.
* Involved in Branching, and Merging of code delivery at required releases.
* Creating Elastic load balance for applications.
* Monitored application and server logs as a day to day routine. Followed up on the errors with the designated team which helped in stabilizing the environment on the longer run.
* Experienced in designing, scaling continuous build, integration and deployment process from dev to production multipletimes a day using tools like Jenkins to automate the deployments onto app servers and Artifactory
* Developing scripts for build, deployment, maintenance and related tasks using Shell Scripting.

**PROJECT #4:**

**Client: Discover Bank Sep 15 – Aug 19**

**Role: Devops/Middleware engineer**

**RESPONSIBILITIES:**

* Expertise in designing and developing Jenkins deployments.
* Implemented continuous integration and deployment using various CI tools like Jenkins
* Hands-on experience configuring workflows, writing jobs in Jenkins for performing automated builds and deployments
* Worked on **Groovy scripts** to configure and automate CI/CD pipelines using tools like Jenkins
* Used Groovy scripts to automate parts of the code review process, generate reports, or trigger actions in response to code changes.
* Converted all the Jenkins to Pipelines Job through Jenkins-pipelines repository.
* Worked on integrating GIT into the continuous Integration (CI) environment along with **Jenkins** and Subversion.
* Integrated JIRA with subversion and configured with Jenkins to automate the entire Build and release process
* Creating access permissions for checking and checkout for developers and control the access permission based on the developers role and responsibility.
* Responsible for CVS Repository Administration, Examination, Repository Mirroring, Remote Repository data Migration.
* Maintained and improved current build infrastructure using CVS and Serena Dimensions
* Creating a fully Automated Build and Deployment Platform and coordinating code builds promotions and orchestrated deployments using Jenkins and CVS ad Serena Dimensions
* Creating projects in Dimensions and giving access to the users on Dimensions.
* Maintaining multiple products in Dimensions and giving support to the all projects in Dimensions.
* Involving to preparing the training documents to users and new project setup documents.
* Monitoring the releases and change requests based on priority.
* Automating the management and creation of Application Servers, resources and database deployments.
* Arranged training session to New Application users to familiar with the Environment.
* Involved in Upgrade the Dimensions 8.4.0 to 14.4 and played a key role to reached the milestone of project
* Involved in LDAP Authentication setup in dm.cfg file in serena Dimensions
* Provided cross training to multiple teams as part of Knowledge sharing.
* Resolved the issues in cksum mismatch of source files and fetch Items in Serena Dimensions
* On-call support for the production environment and troubleshooting production applications
* Performing Initial / MidCycle refresh activities.
* EAR deployments on WebSphere and WAR file deployments on Tomcat servers.
* Autosys jobs import/export, BPM installations, Time Machine Sync UP Changes.
* Patch installations for Application &Supporting Data Base Migration Changes and Validations.
* Backup & Restoration of applications
* Handling client calls for issues

**PROJECT #5:**

**Client: Atos/Syntel July 13 – Sep 15**

**Role: Middleware engineer**

**Roles & Responsibilities**

* Analysis of the specifications provided by the clients. Involved in identifying and resolving the various change requests. Took the various challenges in the support and completed them on time.
* Installing and configuring WebSphere 7.0and 8.5 ND versions of Application Server on Windows, Linux platforms using GUI & silent mode of installation.
* Experience in Installation and configuration of IBM HTTP Server, Plug-ins along with maintenance, troubleshooting activities on various distributed platforms
* An Installation, Configuration, Upgradation, troubleshooting and maintenance of WAS environments
* Installation of fix packs/cumulative fix packs
* Responsible for supporting in Dev, Test and Pre-Prod environments
* Creating various profiles and Federating Nodes to Dmgr
* Deployment of EAR & WAR files using WAS Admin Console and wsadmin scripts
* Configuring Web Servers definitions to handle through WAS admin console
* Configuring &modifying resources required by Applications (JDBC, Resource Adapters, JMS etc...)
* Enabling Global Security and assigning Roles to users & user groups
* Enabling monitoring whenever required
* Responsible for handling Requests / Incidents / Changes
* Generating Thread and Heap dumps in case if there is any OutOfMemory, Hung thread, performance related applications

**Education:**

* **B-Tech** in **INFORMATION TECHNOLOGY** from **JNTU University**.

**Experience Summary:**

* Working as a Devops Engineer with **SVATS INC**form **June 2023 to Tile Date**.
* Worked as a Consultant with **Capgemini Technologies**form **July 2021 to June2023**.
* Worked as a Sr Administrator with **Wipro Technologies** from **August 2019 to July 2021**.
* Worked as a Sr System engineer with **cognizant** from **September 2015 to August 2019**.
* Worked as System engineer in **LakshyaSoftware Technologies**from **July 2013 to September 2015**