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**Swetha Juvvadi**

**Email :** [swetha7768@gmail.com](mailto:swetha7768@gmail.com) **|| Mobile: 678 383 0830**

**LinkedIn:** <https://www.linkedin.com/in/swetha-j-380a8036/>

**PROFILE SUMMARY:**

* Around 13 years of experience in Designing Build process, Software Development, Process Automation, Build and Deployment Automation, Release Management, Source Code repository, Environment management, Cloud Computing, Software Configuration Management (SCM).
* Good understanding of the principles and best practices of Software Configuration Management (SCM) in **Agile, scrum, and Waterfall** methodologies.
* Experienced with Amazon **AWS** cloud administration services like: **EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Route 53, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, Security Groups**.
* Created dev and test environments off different applications by provisioning K8S clusters on AWS using **Jenkins, Terraform, Ansible and Docker**.
* Implemented Jenkins pipeline for deployment using Ansible.
* Implemented **Jenkins - CI/CD** concepts, jobs, builds, pipelines, triggering, SCM, testing, notifiers, distributed builds, plugins, artifacts, configuration management tools like Unusable, Chef etc.
* CD best practices like distributed builds, containerization, traceability, high availability and auto repository builds.
* Used **Jenkins** as a tool for Continuous Integration (CI) to carry out deployments and builds on various environments. Used different Jenkins plugins and their configuration for Continuous Integration/ Continuous Delivery.
* Design, plan and build a MS **azure** environment to host double **SaaS** applications.
* Migrate Double Data Center SaaS applications from private Data Center to MS **Azure Cloud**.
* Provision Infrastructure as a service cloud computing in MS **Azure.**
* Experience in configuring and integrating the servers with different environments to automatically provisioning and creating new machines using configuration management tools like **Ansible**.
* Designed and implemented fully automated server build management, monitoring and deployment by using **Ansible Playbooks and Modules**.
* Worked on Ansible setup, managing hosts file, using YAML, authoring various **playbooks** and **custom modules** with Ansible.
* Worked with **Terraform** to create AWS components like EC2, IAM, VPC, ELB, Security groups.
* Established **Chef Best** practices approaches to systems deployment with tools like vagrant and test-kitchen and managing **Chef Cookbooks** as a unit of software deployment and independently version controlled.
* Experienced in Writing Chef Recipes to automate our build/deployment process and do an overall process improvement to any manual processes. Effective usage of **Chef Spec** for managing the cookbooks in **Chef.**
* Setup code repositories Like **GIT**, SVN, Visual SVN, and Tortoise SVN and managed plugins for Jenkins for scheduled automatic checkout of code.
* Created **Docker container** using Docker images to test the application even ship and run applications.
* Used of **Docker, Kubernetes** and Open Shift to manage micro services for development of continuous integration and continuous delivery.
* Created **Docker images** using a Docker File, worked on Docker **container** snapshots, removing images and managing Docker volumes.
* Setting up **EKS** using **Kubernetes** and deployed containers using Docker inside the application.
* Used Kubernetes to manage containerized applications using its nodes, Config Maps, selector, Services and deployed application containers as **Pods**.
* Utilized Kubernetes for the runtime environment of the **CI/CD** system to build, test deploy.
* Involved in **Jira** as bug tracking system and configured various workflows, customizations and plug-ins for Jira bug/issue tracker and integration of Jenkins with Jira/GitHub.
* Used Atlassian’s tool **JIRA** in Issue tracking / bug tracking and used **confluence** for discussing the work related to project.
* Worked on various configurations and networking of **NFS, DNS, LDAP, HTTP, HTTPS, FTP**, remote access management, and security trouble shooting skills.
* Debugged our APIs using **Splunk** logs and made performance analysis through **AppDynamics and Nagios** for Resource Monitoring/Network Monitoring/Log Trace Monitoring.
* Strong hands on experience in scripting languages such as **Groovy, Yaml, JSON, Shell scripting.**
* Experience with working on Linux System with good programming languages such as **Python, Bash, Shell.**
* Skill of database technology like **SQL, PLSQL, MySQL, RDS** including NoSQL (DynamoDB) databases.
* Experience in integrating code quality tools such as **SonarQube**, Veracode in CI/CD pipelines.

**SKILLS:**

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| **Cloud Technologies:** | AWS, Azure |
| **Web Servers**: | Apache, Tomcat, WebLogic, WebSphere. |
| **Application Servers**: | Nginix, JBOSS. |
| **Virtualization**: | VMware, vSphere and vSphere 5Citrix. |
| **SDLC**: | Agile, Scrum. |
| **Version Control Tools**: | Subversion (SVN), GIT Hub, BitBucket. |
| **Build Tools**: | ANT, MAVEN, Gradle. |
| **CI Tools**: | Jenkins, Bamboo, Hudson. |
| **Configuration Management Tools**: | Chef, Puppet, Ansible. |
| **Container and Orchestration Tools**: | Kubernetes, Docker, AWS ECS, AWS EKS. |
| **Infrastructure**: | Terraform. |
| **Database**: | Oracle, MySQL, MongoDB, SQL Server. |
| **Ticketing & Tracking Tools**: | JIRA, Remedy, ServiceNow. |
| **Monitoring Tools**: | Nagios, Cloud Watch, Splunk. |
| **Languages/Scripts**: | HTML, Shell, Bash, Python, Ruby, Perl and Power Shell. |
| **Operating Systems**: | Redhat-Centos, Amazon-Ec2, Debian-Ubuntu, Windows. |

**PROFESSIONAL EXPERIENCE:**

**Client : Verizon, Ashburn VA || June 2022 to Present.**

**Role : Sr DevOps Engineer**

**Responsibilities:**

* Implemented terraform for building, updating, and versioning infrastructure safely and efficiently, as well as creating custom in-house solutions with Ansible configurations.
* Worked on Amazon Cloud Services and its features AWS EC2, VPC, EBS, AMI, snapshots, Auto scaling, Cloud Formation, Lambda, SES, SQS, SNS, RDS, ELB, EBS, Cloudwatch, S3 and Microsoft azure environments.
* Managing Amazon Web Services (AWS) infrastructure with automation and orchestration tools such as Ansible and Puppet.
* Implemented multiple VPC's and public, private subnets as per requirement and distributed them as groups into various availability zones of the VPC.
* Created and maintained Terraform scripts for infrastructure provisioning, streamlining the deployment process.
* Created NAT gateways and instances to allow communication from the private instances to the internet through bastion hosts.
* Implemented security groups, network ACL's, internet gateways and route tables to ensure a secure zone for organization in AWS public cloud.
* Configured Elastic Load Balancers and Auto Scaling groups to distribute the traffic and to have a cost efficient, fault tolerant and highly available environment.
* Implemented S3 buckets in the AWS environment to store files sometimes that are required to serve static content for a web application.
* Implemented and managed OpenShift clusters for container orchestration, enabling seamless deployment and scaling of microservices.
* Automated application deployment on OpenShift using declarative configurations and integrated CI/CD pipelines for continuous delivery.
* Configured AWS Beanstalk for deploying and scaling developed web applications and services.
* Worked on creating and launching EC2 instances using AMI's of Linux, Ubuntu, RHEL, and wrote shell scripts to bootstrap instance.
* Implemented IAM for creating roles, users, groups and implemented MFA to provide additional security to AWS account and its resources.
* Written cloud formation templates in json to create custom VPC, subnets, NAT to ensure successful deployment of web applications.
* Implemented and managed OpenShift, Docker, and Kubernetes environments, optimizing containerized applications' deployment and scalability.
* Led the migration of legacy applications to OpenShift, resulting in improved scalability and resource utilization.
* Developed and customized CI/CD workflows using Jenkins, enhancing the automation of software delivery pipelines.
* Implemented domain name service (DNS) through route 53 to have highly available and scalable applications.
* Maintained the monitoring and alerting of production and corporate servers using Cloudwatch service.
* Implemented monitoring and logging solutions for OpenShift clusters to ensure real-time visibility into system performance and troubleshooting.
* Created EBS volumes for storing application files for use with EC2 instances whenever they mounted to them.
* Implemented RDS instances to serve data through servers for responding to requests.
* Developed terraform templates that can spin up infrastructure for multi-tier application and provisioned boot strapped software on Cloud with terraform.
* Worked on Docker, Kubernetes to manage micro services for development of continuous integration and continuous delivery.
* Created Docker images using a Docker Engine, worked on Docker container snapshots, removing images and managing Docker volumes.
* Setting up EKS using Kubernetes and deployed containers using Docker inside the application.
* Implemented Kubernetes to manage containerized applications using its nodes, Config Maps, selector, Services and deployed application containers as Pods.
* Utilized Kubernetes for the runtime environment of the CI/CD system to build, test deploy.
* Involved in Jira as bug tracking system and configured various workflows, customizations and plug-ins for Jira bug/issue tracker and integration of Jenkins with Jira/GitHub.
* Written python scripts using boto3 to automate the resource creation.
* Used Python scripts in AWS Lambda and Gluejob
* Implemented a continuous delivery framework using JENKINS, CHEF, and MAVEN in Linux environment.

**Environment:** AWS (EC2, RDS, Lambda, Cloud Watch, SNS, Route53), Git, Jenkins, Maven, Ansible, New Relic, Python, Groovy, Pager Duty, Datadog.

**Client: Max Financial Services, Bangalore India || Jan-2019 – Dec 2021**

**Role: DevOps Engineer / SRE**

**Responsibilities:**

* **C**reated the automated build and deployment process for application, re-engineering setup for better user experience, and leading up to building a continuous integration system.
* Developed and implemented Software Release Management strategies for various applications according to the agile process.
* Involved in Source Control Management with GitHub and GitLab Enterprise level repositories, Regular activities include configuring user’s access levels, monitor logs and identifying mergers.
* Deployed Ansible modules to provision and manage AWS EC2 instances, volumes, DNS, and S3.
* Write Terraform scripts from scratch for building Different environments.
* Hands on Experience in using configuration management tools like Cloud Formation, Terraform &amp; Ansible.
* Worked on AWS environment such as lambda, server less applications, EMR, Athena, Glue, IAM policies, roles, S3 and Ec2.
* Worked on google cloud platform (GCP) services like compute engine, cloud load balancing, cloud storage, cloud SQL and Cloud deployment manager.
* Designed and implemented infrastructure-as-code solutions using Terraform to provision and manage GCP resources such as Compute Engine instances, Cloud Storage buckets, and Cloud SQL databases.
* Designed and implemented performance test plans per customer requests.
* Performing L2 &amp; L3 level full life cycle triage for all events on production servers including incident logging, troubleshooting.
* Involved in performing application deployment to AWS Elastic Bean stack Environment.
* Implemented AWS solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups, Optimized volumes and EC2 instances.
* Experience in Deploying and Monitoring Microservices on various platforms like AWS EKS. Worked on EKS Administrator.
* Worked with an agile development team to deliver an end-to-end CI/CD product in an open-source environment using Jenkins to get job done.
* Deployed Prometheus and Grafana on Kubernetes Cluster.
* Designed a system using Kafka to auto scale the backend servers based on the events throughput.
* Dynatrace and NewRelic application monitoring for performance metrics in real time to detect and diagnose applications problems automatically.
* Responsible for Continuous Integration (CI) and Continuous Delivery (CD) process implementation-using Jenkins along with Python and Shell scripts to automate routine jobs.
* Work with application teams to identify necessary Azure resources and automate their provisioning using ARM Templates, PowerShell and Terraform scripts.
* Knowledge of architecting and developing power BI solutions by configuring the data security and assigning the licenses and sharing the reports and dashboards to the different user groups in the organization.
* Structured cluster Auto Scaler for Azure Kubernetes Service (AKS) by using Terraform and worked with scheduling, Deploying and managing pods and replicas in AKS.
* Managed Kubernetes clusters on GKE, including cluster creation, node scaling, and upgrades.
* Used Maven as build tool on Java projects for the development of build artifacts on the source code.
* Writing Python scripts to automate Database migration processes. Knowledge on Massive Data migration expertise from SQL to PostgreSQL.
* Debugging failure issues by capturing array and register dumps using python scripts and performing several experiments by interacting with design team.
* Configured and maintained the AWS Lambda function to trigger when there is a Jenkins build kicked off, which internally gets stored on AWS S3 bucket for everybody to access. Created Route53 to route traffic between different regions.
* Develop CI/CD system with Jenkins on Kubernetes container environment, utilizing Kubernetes for the runtime environment for the CI/CD system to build and test and deploy.
* Deployed Java applications into web application servers like WebSphere.
* Automate and deploy development environments using Ansible to various cloud providers Amazon AWS and EC2, and Jenkins testing.

**Environment: AWS, AZURE, Jenkins, Terraform, Maven, Python, Groovy Scripts, Nagios, SQL, Ansible, Kubernetes, Docker, Git, JIRA, XML, Linux.**

**Client : ADP India, Bangalore India || Jan 2016 - Mar 2019**

**Role : AWS Cloud Admin/Web Operations Engineer**

**Responsibilities:**

* Develop Build Scripts in Maven to Package Java Development Code to an install-able EAR.
* Designing and deploying underlying infrastructure by using Terraform defines EC2, VPC, S3, AMI, Route53, RDS, Private Subnets, NAT gateway, Kubernetes Cluster and Created Multiple Services Cluster per environment.
* Created Terraform.tf file to define provider, resource, local hard-coded values with local TF state file-maintained environment, modules values.
* Created SNS (Simple Notification Services) and triggering it by Cloud Watch monitoring to send SMS or Email to desired recipients. Created Elastic load balancers (ELB) and used Route53 with failover and latency options for high availability and fault tolerance.
* Designed and implemented custom CI/CD workflows with GitHub Actions, improving the efficiency of the development and deployment lifecycle.
* Utilized bash scripting to automate routine tasks and enhance process efficiency.
* Worked on Python Open stack API's.
* Involved in Requirement gathering, Analysis, Design, Estimation, Development and testing of the assigned tasks in Open stack.
* Used Python scripts to update content in the database and manipulate files.
* Launched DNS, Route 53 and AWS Elastic Load Balancer (ELB) and assigned AWS SSL Certificates to servers.
* Configured the Auto scaling and ELB groups in AWS to main high scalable and secure environment.
* Experience in working with EC2 Container Service plugin in Jenkins which automates the Jenkins master - slave configuration by creating temporary slaves And Configured Git Repository in Jenkins by using Credentials.
* Designed the project workflows/pipelines using Jenkins as CI tool and troubleshoot Jenkins job failure issues.
* Virtualized the servers using the Docker for the test environments and dev-environment needs. Used Docker for virtualization, Ship, Run and Deploy the application securely to fasten the Build/Release.
* By using Kubernetes, we have deployed containers of Docker inside a cluster.
* Setup Internet load balancing on Multiple ISP, Firewall, Port forwarding, IP routing using IPTABLES. Well known about installation, configuration and maintenance of applications like Apache, LDAP, and Tomcat.
* Administered Linux servers for several functions including managing Apache/Tomcat server, mail server and MySQL databases in both development and production.
* Pipelined Application Logs from App Servers to Elastic search (ELK Stack) through Log stash.
* Analysing system logs and identifying potential issues with Windows, RHEL servers for end users on the servers. Used JIRA tool to track all the defects and changes related to Build and release team.
* Occasionally present performance reporting to the appropriate body. Basic bash scripting experience.
* Installed and upgraded packages using YUM and RPM.

**Environment:** Jenkins, Java, J2EE, Ant, Maven, Terraform, AWS(EC2, VPC, S3, AMI, Route53, RDS) Private Subnets, NAT gateway, Kubernetes, PL SQL, YUM and RPM

**Client : Ernest & Young, Bangalore India|| Dec 2013 - Oct 2015**

**Role : Cloud/Devops Migration Engineer**

**Responsibilities:**

* Analysing customer's business and technical requirements, assessing existing environment for Cloud enablement, advising on Cloud models, technologies and risk management strategies.
* Responsible for understanding the current architecture of application and provide the feasible AWS cloud architecture by working closely with application SME’s as part of discovery and design process.
* Cloud solutions to address scalability, performance, security, availability, cost transformation requirements.
* Migrated 50+ applications from On-Premise to AWS Cloud.
* Created AWS cloud resources like EC2’s, EBS volumes, Load balancers, S3, EKS, RDS, Cognito user pools, cloud front, APIGateway, Lambda, Cloud watch setup etc using AWS Cloud formation template in Dev, QA, Prod and DR environments.
* Writing and maintaining Docker file for various image creation.
* Writing and maintaining compose files for various micro services containers creation. Creating the Docker containers using Docker compose.
* Worked on kubernets for maintaining Docker container cluster.
* Using Jenkins, Git for creation of custom Docker container images, tagging and pushing the images. Worked on the customized Docker networks.
* Installing required software and opening firewall rules in AWS security groups and establish connectivity to various interfaces.
* Diagnose, troubleshoot and resolve hardware, software or other network and system problems during application setup in AWS cloud.
* Smoke test the application and mapping DNS to the AWS Host servers.
* Releasing the environment to application team for testing and fixing the issues during testing if any.
* Prepare for Production cutover after successful testing of lower environments and go live activities, DNS switch on date of cutover.
* Developed Dev/Test/Prod environments of different applications using EKS service to run Kubernetes on AWS.
* Integrated Docker container orchestration framework using Kubernetes by creating pods, configMaps and deployments.
* Migrated Kubernetes cluster on-premises to Amazon EKS services(AWS)
* Utilized Kubernetes for the runtime environment of the CI/CD system to build, test deploy.
* Developed build using maven as a build tool and used CI tools to kick off the builds move from one environment to other environments.
* Regular interaction with the Server Administrators, Account Administrators, Application Users – all belonging to different departments and divisions of Florida Power and Light Company to ensure the smooth running of the applications

**Client : Sonata Software, Bangalore India|| Dec 2010 - Sep 2013**

**Role : Build and Release Engineer**

**Responsibilities:**

* Develop Build Scripts in Maven to Package Java Development Code to an install-able EAR.
* Automate Continuous Build and Deploy Jenkins Continuous Integration tool.
* Setting up Jenkins master, adding the necessary plugins and adding more slaves to support scalability and agility.
* Build the code using build tool Maven.
* Branching, Tagging, Release Activities on Version Control Tools used SVN and Git.
* Installing and configuring Subversion, Maven and Jenkins.
* Create users, groups and manage access controls in subversion.
* Maintaining the source code in GIT for various applications.
* Monitor and fix the continuous integration builds running in Jenkins.
* Deploying the WAR files in Tomcat Server.
* Applied version control and branching principles, including release tagging, for streamlined collaboration and release management.
* Setting up commit builds to check for compilation failures of checked-in source code by the developers to accelerate CI.
* Assembly deploy jobs to list the exact configuration of packages with all their dependencies, settings and deploying them to various environments for running tests.
* Working with the development team to increase the unit test code coverage.
* Establish CI/CD for trunk and branches to support parallel development.
* Planning the releasing activities and delivering them on schedule.
* Integrating the latest available changes / components to the product software
* Creating software packages for factories.
* Automation of day-to-day, repetitive tasks

**Environment:** Jenkins, Java, J2EE, Ant, Maven, TFS, Perforce, Cruise Control, Web Logic, Shell, Oracle, Windows, Servlets, PL SQL

**Client : CITRIX, Hyderabad, India || Aug 2009 – Dec 2010**

**Role : Java Developer**

**Responsibilities**

* Worked on Java/J2EE Coding for Portal Applications.
* Worked on Tomcat Web server for hosting web apps.
* Used Perforce version control system to manage different builds for the system.
* Worked with Jira, a tool that handles DCR (defect Change Request) MR (Maintenance Request).
* Worked in creating WebSphere Application Server Clustered Environments and handling Load Balancing for QA, UAT and Production.
* Involved in writing Perl and shell scripts for compilation and deployment process.
* Good command in writing ANT scripts for making all the files local to the server.
* Created activities and assigned to Developers to fulfill the client requirements.
* Created deployment tickets using Jira for build deployment in Production.
* Represented the deployment requests in the ALCCB and ECCB.
* Collected the approvals for deploying the code to production.
* Created diff files and check sum files for production support.
* Involved in working with WebSphere App server admin console for deploying applications.
* Worked closely with developers and managers to resolve the issues that rose during the deployments to different environments.
* Communicated with all levels of engineering, management, development and test teams.

**Environment:** Java, Apache Tomcat, JIRA, SQL Server 2008, Perforce, Apache ANT

**EDUCATION:**

* Masters of Science in Engineering, Oklahoma Christian University, 2022.