

AWS DEVOPS ENGINEER

Career Objectives

To work on challenging assignments in a progressive organization that would leverage my technical experience to the fullest potential and align my growth with the growth of the Organization.

Skill Set

Version Control Tools	GIT
Containerization Tool:	Docker, Kubernetes
Configuration Management Tool:	Ansible
Continuous Integration Tool:	Jenkins, CI/CD automation
Artifact Server:	Docker
Code Infrastructure:	Terraform
Scripting:	Python, Shell Scripting
Operating Systems:	Windows, Linux
Monitoring Tools:	Cloud watch, Splunk
Ticketing Tool:	JIRA, Service Now
Cloud:	Amazon Web Services
Servers:	Tomcat, Web Logic
Testing Skills:	API Testing, Manual Testing, API Automation
Project:	Agile

Career Summary

- Have overall 8+ years of hands-on IT experience with 4+ in area of DevOps and AWS design, development and delivery of IT solutions for large customers with AWS services and DevOps Tools. Adaptive at working in environments with strict deadlines and multiple deliverables to implement best practices and consistently deliver outstanding results. Multitasking and good interpersonal skills with an ability to interact with a wide range of people.
- Over 4 years of experience as **AWS Devops Engineer** in supporting, automating, and optimizing mission critical deployments in AWS, leveraging configuration management, CI/CD, and DevOps processes. Implementing cloud strategy in various environments.
- Excellent skills in applying Continuous Integration and Continuous Delivery.
- Excellent skills in applying Continuous Integration, Continuous Deployment and Continuous Delivery processes & tools [Example: **Git, Maven, Jenkins, Apache Tomcat, Shell Scripting, Python, Docker**, etc.].
- Worked on Jenkins by installing, configuring and maintaining for the purpose of continuous integration (CI) and for End-to-End automation for all build and deployments.
- Having basic knowledge of Python Technologies.
- Used **Ansible** for Configuration Management.
- Managed GitHub repositories and permissions, including branching and tagging.
- Excellent working knowledge on various virtual systems/ like Docker technologies.

- Containerizing applications with Docker. Responsible for managing the Docker private registry and having good knowledge of maintaining containers using Docker swarm.
- Having Good experience in Amazon Web Services environment and good knowledge of AWS services like **Elastic Compute Cloud (EC2), Elastic Load Balancers, IAM, S3, Cloud Front, RDS, VPC, Route53, Cloud watch, Cloud Formation.**
- **Mainly Concentrated on: EC2 (ELB, AUTO SCALING, EBS), VPC, IAM**
- Utilized **Cloud Watch** to monitor resources such as **EC2, CPU memory, EBS volumes**; to set alarms for notification or automated actions; and to monitor logs for a better understanding and operation of the system.
- Actively manage, improve, and monitor cloud infrastructure on AWS, EC2 including backups, patches, and scaling.
- Worked at optimizing volumes and EC2 instances and created multiple VPC'S
- Implementation of NAT gateways for web apps hosted in private subnets.
- Setup and configured EIP to EC2 instances.
- Created Alarms and notifications for EC2 instances using Cloud Watch.
- Designing and Deploying Highly scalable infrastructure using ELB and Auto Scaling services.
- Setup and managed security groups, VPC specific to environment.
- Creating S3 buckets and also managing policies for S3 buckets and Utilized S3 bucket and Glacier for storage and backup on AWS.
- Created AMI images of critical ec2 instances as backup using AWS CLI and GUI.
- Utilize EBS to store persistent data and mitigate failure by using snapshots.
- Attaching or Detaching EBS volume to AWS EC2 instance.
- Knowledge of how to configure and managing S3 storage.
- Experience in creating the DevOps strategy in a mix environment of Linux (RHEL, Ubuntu) servers along with creating and implementing a cloud strategy based on Amazon Web Services.
- Responsible for design and maintenance of the GIT Repositories and performed all necessary day-to-day GIT support for different projects.
- Created and Implemented branching & merging strategy with multiple branches.
- Integrated GIT into Jenkins to automate the code check-out process using Web hook Configuration.
- Used Maven as build tools on Java projects for the development of build artifacts on the source code.
- Automated the build and release management process including monitoring changes between releases.
- Worked on AWS services such as EC2, VPC, Load Balancer, EBS, code build, code deploy, code pipeline, EBS, S3, cloud formation etc.
- Docker Image creation using Docker file and pushing this to Docker Registry.
- Container orchestration using Kubernetes including Google Kubernetes Engine.
- CI/CD pipeline implementation using Jenkins with other DevOps required tools.
- Experience to write Ansible playbook and roles configuration to achieve configuration management.
- Infrastructure creation using Cloud Formation in one shot and provided the quick infrastructure.
- Responsible for gathering requirements, analysis, designing and development of continuous Integration/Continuous Deployment.
- Fetch the application code from Git and building the artifacts based on requirement.
- Notification of each Code Pipeline stage success/failure to end user with build/deployment details.

- Implemented CI/CD using Code Pipeline, Code Commit as source, build code using Code Build.
- Involved in design, development and deployment of application in staging and production. Automated Infrastructure setup of CI/CD using Cloud Formation Template.
- Configured a Cloud Watch logs and Alarms for monitoring purpose.
- Deployed and configured the DNS (Domain Name Server) manifest using Core DNS.
- Installation and setting up Kubernetes cluster on AWS manually from scratch.
- Deploy the docker images in kubernetes cluster architecture using different kubernetes resources.
- Created VPN connection, subnet, Internet Gateway, Setting up the Auto scaling and LB's for high availability.
- Architect build scalable & Immutable Infrastructure on AWS Cloud infrastructure with automation and orchestration tools such as **Terraform** along with **Ansible** for Configuration Management for setting up of _____ Container Platform creating **Docker** Images and Implemented CI/CD workflow for it.

Work Exposure

Organization : Hexaware

Technologies

Position : AWS DevOps Engineer

Level : System Analyst

Date Joined : 10th Nov 2020

Date Left: Working currently

Professional Experience

Working as a Permanent employee as an AWS DevOps Engineer in Hexaware Technologies, Chennai.

Roles & Responsibilities:

- Create and maintain fully automated CI/CD pipelines for code deployment.
- Actively manage, improve, and monitor cloud infrastructure on AWS, EC2 including backups, patches, and scaling.
- Used **Ansible** for Configuration Management
- Automated build and deployment using **Jenkins** to reduce human error and speed up production processes.
- Managed **Git** repositories and permissions, including branching and tagging.
- Containerizing applications with **Docker**. Responsible for managing the Docker private registry and having good knowledge of maintaining containers using Docker swarm.
- Moderate exposure of Python Technologies.
- Works on AWS Services but Mainly Concentrated on: **EC2 (ELB, AUTO SCALING, EBS), VPC, IAM.**
- Setup/Managing VPC, Subnets; make connection between different zones; blocking suspicious ip/subnet via ACL.
- Setup/Managing CDN on Amazon Cloud Front to improve site performance.

- Creating/Managing AMI/Snapshots/Volumes, Upgrade/downgrade AWS resources (CPU, Memory, EBS).
- Utilized **Cloud Watch** to monitor resources such as **EC2, CPU memory, EBS volumes**; to set alarms for notification or automated actions; and to monitor logs for a better understanding and operation of the system.
- Architect build scalable & Immutable Infrastructure on AWS Cloud infrastructure with automation and orchestration tools such as **Terraform** along with **Ansible** for Configuration Management for setting up of **Kubernetes** Container Platform creating **Docker** Images and Implemented CI/CD workflow for it.

Work Exposure

Organization : Cognizant

Position : AWS DevOps Engineer

Level : Associate

Date Joined : 30th May 2016

Date Left: 3rd Nov 2020

Professional Experience

Worked as a Permanent employee as an AWS DevOps Engineer in Cognizant, Chennai.

Roles & Responsibilities:

Project 2 – August 2017 to Nov 2020

- Analyzing the functional specifications and providing with technical solutions related to CICD.
- Providing production support by analyzing the root cause for the issues and providing appropriate solutions.
- Communicating with the different teams for clarification regarding the requirements with timely follow ups.
- Experience on AWS cloud services like EC2, S3, RDS, ELB, EBS, VPC, Route53, auto scaling groups, Cloud Watch, Cloud Front, IAM for installing configuration and troubleshooting on various Amazon Images
- Establish capabilities in application design, implementation, troubleshooting, monitoring, continuous improvement and change controls and Strong analytical, diagnostics, troubleshooting skills to consistently deliver productive technological solutions.
- Set up integrated environments for GitHub, Jenkins, maven, nexus etc. on cloud Environment.
- Supporting the developers in configuration management environment.
- Responsible for the Plug-in Management, User Management, Build/Deploy Pipeline Setup and End to End Job Setup of all the projects.
- Proficient in using Configuration Management tools such as Ansible for on Linux machines. Created many customized modules Playbooks for configuring applications on the client nodes.
- Implemented continuous integration and delivery practices for the project in order to improve the software quality, reduce the cost.
- Experienced in creating, configuring and maintaining Infrastructure on AWS Cloud services including

- Virtual Private Cloud (VPC), EC2, RDS, S3, Route53, SNS, CloudFront, CloudWatch and IAM.
- Experienced in migrating servers from data center to Amazon Web Services cloud

Project 1 – May 2016 to Aug 2017

- Working closely with Quality Assurance Senior Management and Operations Counterparts to manage the Data Automation.
- Experience with resource planning, scope assessment, testing framework, communication plan, reporting metrics template, defect reports, change management.
- Expertise working with the development team to create a suite of test data (both input files and expected results) that fully exercises data validation (detecting and rejecting bad data) and actual ETL functionality (properly processing good data i.e., transformations, calculations, and derivations).
- Expertise with XML web services to test the functions in SOAP and validate the output against the UI
- Expertise with testing various services to validate data for Smoke testing, QA testing and UAT testing.
- Identifying and logging defects if a test fails, if necessary, using SQL to narrow down the root cause of the problem for efficient investigation by the development team and log accordingly.
- Expertise working with Database tools generating SQL queries for checking the Data.
- Experience with workflow manager to edit, validate and run workflows, worklets and tasks.
- Experience with workflow monitor to monitor the status of workflows and sessions.
- Performing test data set-up in XML for testing and update test data based on the requirements
- Expertise with testing XML web services in SOAP UI.
- Improving specification and design documents through active review and feedback with developers.
- Going through Sprint wise User Stories/Test Cases to get the clear idea about the Project with the Project Coordinator.
- Understanding the test requirements with Onsite Lead.
- Test case design/development and test execution (automated/manual).
- Web Services testing using REST Client Manual tool & developing script for different API's using SoapUI Automation tool.
- Logging and tracking Defects in JIRA.
- Preparation of the Test Strategy and guiding the team.
- Involvement in the System Test Plan Preparation and Requirements Streamlining.
- Involvement in Preparation of Test Procedures, Test Scenarios, Cases and Test Data.
- Responsible for GUI and Functional Testing, using Black box Testing Techniques.
- Involvement in Test Execution, Results Analyzing and Defect Reporting.

Work Exposure

Organization : Wipro Technologies

Position : Test Engineer

Level : System Analyst

Date Joined : 24 Jul 2013

Date Left: 20 May 2016

Professional Experience

Worked as a Permanent employee as a Test Engineer in Wipro Technologies, Chennai.

Roles & Responsibilities:

- Worked on different software applications like Application Testing, Smoke Testing, Performance Testing, Functional Testing and Regression Testing.
- Good in designing and executing Test Cases (automated/manual), based on Business / Functional Requirement Specifications
- Strong knowledge of SoapUI testing
- Good in Development and Execution of Automation Scripts using SoapUI automation Tool.
- Good in SOA (Web Services) testing using REST / POSTMAN Client (Manual) & SoapUI (Automation).
- Experienced with functional web services tests
- Skilled with creating automated web services testing processes
- Able to create data-driven tests using external sources
- Excellent troubleshooting and problem-solving skills
- Highly analytical and focused on details
- Creative and has good critical-thinking abilities
- Good organizational skills
- Have a beginner level knowledge in CA LISA and Selenium using TestNg

Work Exposure

Organization : CSS CORP

Position : Tech Support Engineer

Level : Tech Support Engineer

Date Joined : 10th Dec 2012

Date Left: 9th Jul 2013

Professional Experience

Worked as a Permanent employee as a Tech Support Engineer in CSS Corp, Chennai.

Roles & Responsibilities:

- Handled Inbound and Outbound calls from US customers to solve the network related issues
- Handled email from the customers to solve the network related issues.