Kishan Patel

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AWS/DevOps Engineer

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SUMMARY

- Over 8+ years of experience working as AWS Engineer, DevOps Engineer, Cloud Engineer roles focusing mainly on CI/CD Automation, Infrastructure as Code, configuration and deployment.
- Launched various Amazon EC2 Cloud Instances using AWS (Linux/Ubuntu/Centos/RHEL) and configuring launch instances with respect to applications requirements.
- Knowledge in AWS cloud platform with hands on experience in AWS services like EC2, S3, RDS, VPC, EBS, ALB, NLB, SNS, SQS, Auto Scaling, IAM, Route53, Cloud Watch, Elastic Beanstalk, ECS, Cloud Formation, Cloud Trail, Security Groups, Glacier, RedShift, Code Pipeline, Code Build, Code Deploy, Code Commit and Lambda.
- Experience in providing best securities practices to the team for the various applications and provided least privileges to the other teams to make the environment secure and reliable.
- Created IAM policies for delegated administration within AWS and configure IAM Users/Roles/Policies to grant access to AWS Resources to users.
- Experience in working with AWS serverless services like DynamoDB, Api gateway, Lambda. Created CloudFormation stack for serverless applications and deployed AWS Lambda Code for S3 bucket.
- Experience in creating Terraform Modules for all the resources and publishing it on terraform registry so that team can use this module in terraform configuration files.
- Experience in Working with Terraform key features such as Infrastructure as a code, can provisions all the resources with the help of terraform commands. Experience in working with Terraform CLI, Terraform Cloud and Terraform Enterprise.
- Created Terraform Modules and CloudFormation templates scripts to totally provision AWS Services which includes Web Servers, ALB, Cloud Front distribution, database, EC2, database Security groups, S3 bucket and application Configuration.
- Proficient in writing Cloud Formation Templates in YAML and JSON format to build the AWS Services as Infrastructure as a Code in AWS.
- Highly skilled in deployment, data security and troubleshooting of the applications in AWS.
- Experienced in working in variety of DevOps tools in mixed environments of Linux and windows servers in AWS.
- Knowledge in Various strategies of Continuous Integration and Continuous Delivery (CI/CD) for the applications.
- Experience on working with automation tools like Jenkins, TeamCity, Harness, Gitlab CI/CD, AWS Code Pipeline, GITHUB Actions, Bitbucket pipeline and Azure DevOps for Continuous integration and end to end automation for all Build and Deployments.
- Experience in working with Docker, Kubernetes, ECS contains Services and Successfully deployed the images in Cloud environment for managing Application.

- Experience with container-based deployments using Docker, working with Docker Images, Docker Hub, Docker Compose, Docker-registries and Kubernetes.
- Automated various infrastructure activities like Continuous Deployment, Application Server setup, Stack monitoring using Ansible playbooks and has integrated Ansible with Jenkins.
- Installed, Configured, Managed Monitoring Tools such as AWS Grafana, Splunk, Datadog, CloudWatch for Resource Monitoring/Network Monitoring/Log Trace Monitoring.
- Strong Hands-on experience with Scripting languages like Shell, Python, Bash, PowerShell.
- PowerShell setup and configure pull server, Creating Custom resources, Working with various system modules and configuration.
- Strong knowledge and implementation of Various web technologies like JavaScript, Python, jQuery, HTML, CSS, Bootstrap, JSON, and XML. Hands on experience on Deploying the applications in AWS.
- Worked on version control tools like GIT and utilized Source code administration like GitHub, AWS Code Commit, Bitbucket, Gitlab, Azure Devops.
- Experienced in Branching, Tagging and maintaining the versions across different Source Code Management (SCM) tools like GitHub, Bitbucket, Gitlab, Azure Devops.
- Capable of handling multiple tasks and work effectively both in group and as an individual to meet deadlines.

- Hands on experience in Change Management, Incident Management, Compliance, Operational Level Agreement and knowledge about SOX policies.

TECHNICAL SKILLS

Cloud Platforms	AWS, Microsoft Azure, GCP
Operating Systems	Windows, Unix/Linux, Ubuntu, Red Hat, Centos
Integration Tools	Jenkins, Hudson, Bamboo and TeamCity.
Logging & Monitoring Tools	Splunk, CloudWatch, Datadog, Grafana
Web Technologies	HTML, CSS, JavaScript, jQuery, Bootstrap, XML, JSON
SDLC	Agile, SCRUM, Kanban, Waterfall model.
Web Servers	Apache Tomcat, JBOSS, Web Sphere
Database	Oracle DB2, MYSQL, MongoDB7 SQL Server.
Database Languages	SQL, PostgreSQL, AWS RDS, DynamoDB
Version Control Tools	GIT, GITHUB, Gitlab, Azure Devops, AWS Code Commit, Bit Bucket
Configuration Management and IAC	Ansible, Chef, Puppet, Terraform CloudFormation.
Languages/Scripts	Python, Shell, Bash, Ruby, YAML, PHP, PowerShell.
Containerization Tools	Docker, Kubernetes, Docker Swarm, OpenShift.
CI/CD Tools	Jenkins, Harness, AWS Code Pipeline, GitHub Actions.

PROFESSIONAL EXPERIENCE

Renew Financial, Irving, Texas   **Sep'22 – Present**

Role: Sr. AWS Cloud Engineer

Responsibilities:

- Automated the front-ends platform into highly scalable, consistent, repeatable infrastructure using CloudFormation.

- Setup AWS Code Pipeline (CI/CD) using AWS Code Commit, Code Build and GitHub to automatically build and deploy the changes into the AWS environments.
- Deployed serverless ReactApp application using AWS Code pipeline and helped engineers to maintain the code securely in GitHub and AWS Code Commit.
- Created frontend applications using AWS services like S3, CloudFront, IAM Roles and Policies. Created S3 bucket policies to give permissions to CloudFront.
- Experience involving configuring S3 version and lifecycle policies to and backup files in glacier.
- Setup the AWS CodePipeline to deploy applications into AWS Cloud environments by following the best securities practices.
- Deployed backend serverless project using the CloudFormation templates. Created CI/CD pipeline to automate the deployment into multiple environments when code is merged to specific branches.
- Good understanding of Git Workflow and its branching strategies and documented each step on Confluence workspaces.
- Engaged with the Developers team to have a clear understanding of the requirements of the new projects and provided least privileges to other team members based on the working roles.
- Created terraform modules for various AWS services and shared with the team to make use of the module into the existing code.
- Analyzed large and critical datasets using Zookeeper and Spark.
- Automated all the infrastructure using the Terraform scripts and helped various engineers into the team to fully understand its working functionalities.
- Strong experience of Terraform and CloudFormation for creating and managing resources using IAC tools.
- Develop terraform scripts for the existing manually created AWS Resources into the various environments.
- Wrote sentinel policies for terraform enterprise.
- Hands on experience on migrating Terraform enterprise to Terraform SaaS.
- Managing AWS services like EC2, Route 53, IAM, S3, CloudFront, Load Balancers, ACM, DynamoDB, RDS, SNS, AWS Developer tools, Subnets, Security Groups Lambda, API Gateways etc for various applications.
- Worked on Configuring Zookeeper, Kafka, and Logstash cluster for data ingestion and Elasticsearch performance and optimization and worked on Kafka for live streaming of Data.
- Implemented Spark Kafka streaming to pick up the data from Kafka and send to Spark pipeline.
- Reviewed Kafka cluster configurations and provided best practices to get peak performance.
- Fixed Kafka and Zookeeper related Production issues across multiple clusters.
- Helped in Configuring Kafka producer and consumer microservices to stream the data to and from Kafka topics.
- Created CloudWatch log group for various applications and integrated with the EC2 servers to keep regular logs updated into our teams.
- Created cost effective EC2 servers for the environments and have set up regular snapshots backup for the dev and prod servers.
- Managed Docker orchestration and Docker Containerization using Kubernetes.
- Involved in development of test environment on Docker containers and configuring the docker containers using Kubernetes.
- Changing the AWS infrastructure Elastic Beanstalk to Docker with Kubernetes.
- Managed Kubernetes charts using Helm. Scheduled, deployed, and managed container replicas onto a node cluster using Kubernetes.
- Development of automation of Kubernetes clusters with Ansible, writing playbooks.
- Utilized Kubernetes for the runtime environment of the CI/CD systems to build, test, and deploy.
- Used Ansible playbook to setup Continuous Delivery pipeline.
- Wrote Python code using Ansible Python API to Automate Cloud Deployment Process.
- Used Ansible to document all infrastructures into version control.

- Integrated ALB and NLB to servers and pointed it to Route 53 records using its subdomain. Can create multiple records into Route 53 public and private hosted zone.
- Create and maintain build and deploy CI/CD pipelines using both AWS tools and other CI/CD tools and maintain the AWS Resources for multiple environments.
- Used Elastic Beanstalk for deploying and scaling web applications developed within Ruby platform in AWS Environments and managed multiple Linux and Windows EC2 servers.
- Created scripts in Python which integrated with Amazon API to control instance operation. Used a python package called Boto to call the AWS resources.
- Managing all aspects of the end-to-end Build/Release/Deployment process for multi projects.
- Documented all post-deployments issues in a log and assisted in resolving these issues where applicable and ensured all steps were successfully completed and documented their completion times and issue logs.
- Subject Matter expert on Incident management, Change management Process and knowledge article.

Anaplan, Dallas, TX   **Aug'21 – Jul'22**

Role: Sr. Cloud Engineer

Responsibilities:

- Implemented a Continuous Integration and Continuous Delivery (CI/CD) pipeline with Jenkins and GitHub Actions. Configured and maintained Jenkins pipeline to implement the CICD process for the various applications in AWS cloud environments.
- Implemented large scale cloud infrastructure using AWS resources like IAM, EC2, EBS, ASG, VPC, Route53, RDS, SNS, SQS, Lambda, KMS, Api gateway, S3, CloudFront, ACM, Load balancers.
- Collaborate with our Security team to ensure through security evaluations for all aspects of an AWS implementation.
- Monitor and support production environments for AWS service deployment and operational support and implemented dashboards for managing cloud performance.
- Develop and implement CI/CD pipelines for the java, python, dotnet applications and maintain existing pipeline configurations.
- Build, maintain and deploy multiple applications in an AWS environment using GitHub Actions, terraform scripts for provisioning the AWS resources in multiple environments.
- Involved in deploying multiple applications utilizing AWS stack focusing auto-scaling and best security practices.
- Created detailed AWS Security Groups which behaved as virtual Firewalls that controlled the traffic allowed to reach one or more AWS EC2 instances.
- Creation of all resources using terraform and created terraform modules for AWS services like EC2, S3, Lambda, CloudFront, AWS CodePipeline, DynamoDB etc. and written terraform scripts AWS CloudWatch alerts.
- Used Kubernetes to deploy scale, load balance, scale and manage Docker containers.
- Managed Kubernetes charts using Helm and created reproducible build of the Kubernetes applications, managed Kubernetes manifest files & releases of Helm packages.
- Create and maintain highly scalable and fault tolerant multi-tier AWS environments using Terraform and CloudFormation.
- Used Docker and Kubernetes to manage micro services for development of continuous integration and continuous delivery.
- Used Kubernetes to deploy scale, load balance,
- Used Terraform CLI to create the resources into AWS environments and also have a good understanding of working Terraform Cloud and Terraform Enterprise.
- Design and recommend process improvements to ensure system scalability and reliability

- Analysed and troubleshoot internal systems to develop and maintain automation tools that interface with internal back-end systems.
- Participate in major incident response team efforts and take part in on-call rotation.
- Support and continuously improve DevOps processes and procedures assist with various technical proof of concepts.
- Upgraded Zookeeper clusters across all environments from version 3.4.6.
- Expanded the Zookeeper cluster in our production environment from 3 to 5 hosts to improve resiliency.
- Deployed Kafka manager for getting better insights into our Kafka clusters.
- Improved the performance of the Kafka cluster by fine tuning the Kafka configuration at producer, consumer and broker level.
- Work with other DevOps engineers to cross train in various environments and technologies
- Integrated the API Gateway with Athena to make it more secure while querying any database queries in AWS Cloud. Integrate various development tools with custom APIs as needed.
- Setup data dog monitoring across different servers and AWS services.
- Created data dog dashboards for various applications and monitored real-time and historical metrics.
- Created system alerts using various data dog tools and alerted application teams based on the escalation matrix.

American International Group, Dallas, TX   **May'19 – Jul'21**

Role: Sr. Cloud Engineer

Responsibilities:

- DevOps Engineer for groups with several concurrent product releases and distinct development teams.
- Using an agile process, techniques for Software Release Management were developed and put into practice for a range of applications.
- In responsibility for importing new code based on baselines, branching, merging by labeling or tagging, and using GIT to manage the source code's software lifecycle.
- Thorough exposure to SDLC Configuration Management policies and procedures; also, extensive experience with BASH/Shell and Perl script automation.
- Setting up Amazon EC2 Cloud Instances using Ubuntu or Linux images and configuring these instances to run particular apps.
- Using AWS services like Route53, CloudWatch, CloudFront, VPC, EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in CloudFormation JSON templates.
- Promote Enterprise Solutions to target environments with an emphasis on continuous integration and deployment.
- Implemented Ansible to manage all existing servers and automate the build/configuration of new servers.
- Used Ansible Control server to deploy plays and playbook to the machines and systems in the inventory.
- Wrote several Ansible playbooks for the automation that was defined through the tasks using YAML format and run Ansible Scripts to provision Dev servers.
- Setting up the Virtual Private Cloud (VPC) and networking it. Created Cloud Formation Templates and used them to launch AWS resources.
- S3 bucket creation and policy management, as well as using Glacier and S3 buckets for AWS storage and backup.

- Provide highly durable and available data by using S3 data store, Versioning, lifecycle policies, and create AMIs for mission critical production servers for backup.
- Implemented and maintained the monitoring and altering of production using AWS Cloudwatch.
- Administered and Engineered Jenkins for managing weekly Build, Test and Deploy chain, GIT with Dev/Test/Prod Branching Model for Weekly Releases.
- Build and configure a virtual center in the Amazon Web Services cloud to Support Enterprise Data Warehouse Hosting including Virtual private Cloud (VPC). Public and private Subnets, Security Groups, Route Tables, Elastic Load Balancer.
- Continuously managed and improved the build infrastructure for global software development engineering teams including implementing build scripts, continuous integration infrastructure and deployment tools.
- Having experience in handling many Docker components, including Docker Registry, Hub, Machine, Compose, and Engine.
- Developed a procedure for software configuration management and releases, involved in different stages of application development. Agile, Scrum approach was used to examine and develop the system iteratively.
- In the role of creating and managing the GIT repositories, as well as various branching and merging techniques, views, access control techniques, and Jenkins integration of GIT to automate the code check-out procedure.
- Jenkins is being used to allow continuous delivery by deploying into several test, QA, stage, and production environments.
- Experienced in AWS services such as Route 53, ACM (Amazon Certificate Manager), VPC, EC2, S3, ELB, EBS, RDS, Redshift, IAM, CloudFormation, CloudWatch, CloudTrail, SNS, SNTP(SES), AWS Config, and Guard Duty.
- Use CloudWatch to monitor systems and manage logs.
- Have experience working with Oracle and MySQL databases and know how to query them in accordance with application specifications.
- Made Python contents to absolutely computerize AWS administrations which incorporates web servers, ELB, CloudFront appropriation, information base, EC2 and data set security gatherings, S3 pail and application design, this content makes stacks, single servers, or joins web servers to stacks.
- Utilized Kafka as a messaging system and spark for processing large data sets as well as worked on Apache Hadoop.
- Planned and documented processes for release, builds, and source control.

GAP, San Jose, CA   **Dec'17 – May'19**

Role: AWS Cloud Engineer

Responsibilities:

- Responsible for configuring and building complete Cloud infrastructure for Public and Private Network.
- Creation of AWS Glue jobs, catalog tables creation with Crawler and manual database/table creation.
- Creation of S3 data lake infrastructure and automate the entire process using AWS Lambda function and API Gateways and further ETL process for Analytics.
- Created GitLab CI/CD pipeline for test, QA, UAT and prod environment and Deployments of (CI/CD) pipelines in different environments such as Dev/QA and prod.
- Creation of Role based permission and creation of bucket policies to appropriate access to users.

- Spin up and build scalable architecture based on client requirement and configure the instances and creation of Security group /Firewall groups, KMS Keys, attach those right instances.
- Creation of catalog database tables for Athena for fast querying S3 data and setting up for query performance at Athena.
- Define the scope and responsibility for AWS infrastructure and creation of AWS set of service instances based on user stories for regions.
- Worked on creating EMR clusters using terraform and also worked with Athena, AWS Glue, Data lake.
- Experience in AWS Lambda function and API Gateway, to submit data via API Gateway that is accessible via Lambda function.
- Integrated the AWS S3 bucket with AWS GLUE and also setup glue crawlers to run periodically and scans the data and populates into the Glue Catalog table.
- Athena query performance and creation of metadata catalog tables for ETL jobs.
- Created the jobs and workflows in AWS GLUE using terraform scripts.
- Leveraged AWS cloud services such as EC2, auto-scaling and VPC to build secure, highly scalable and flexible systems that handled expected and unexpected load bursts.
- Launching Amazon EC2 Cloud Instances using Amazon Images (Linux/Ubuntu) and configuring launched instances with respect to specific applications.
- Creating S3 buckets and also managing policies for S3 buckets and Utilized S3 bucket and Glacier for storage and backup on AWS.
- Used Ansible Playbooks for various environments for release and rewrite puppet modules into the Ansible playbooks.
- Installed and configured Ansible. Created different playbooks and managed Ansible inventories.
- Created Ansible roles using YAML such as Tasks, Variables, Files, Templates, Handlers and writing playbook for that particular roles.
- Created alarms and trigger points in CloudWatch based on thresholds and monitored logs via metric filters, utilized AWS CloudWatch to monitor the performance environment instances for operational and performance metrics during load testing.
- Configured RDS instances using Cloud formations and Terraform, also used Terraform to map more complex dependencies and identify network issues.
- Strong Knowledge on Source Controller concepts like Branches, Merges and Tags.
- Extensively involved in infrastructure as code, execution plans, resource graph and change automation using Terraform, Managed AWS infrastructure as code using Terraform, Expertise in writing new plugins to support new functionality in Terraform.
- Responsible for Manage IAM Policies, providing access to different AWS resources, design and refine the workflows used to grant access.
- Experience in Docker and Kubernetes on multiple cloud providers, from helping developers build and containerize their application (CI/CD) to deploying either on public or private cloud.
- Experienced in writing terraform templates that can spin up infrastructure for multi-tier application and provisioned boot strapped software on cloud with terraform.
- Written Templates for AWS infrastructure as a code using Terraform to build staging and production environments.
- Used monitoring tool JIRA and also triaged the issues and maintained bugs using the JIRA tool.

Nike , San Francisco, CA   **Jun'15 – Dec'17**

Role: AWS Developer

Responsibilities:

- Designed and implemented Amazon Web Services (AWS) cloud-based instances for use in the current projects and worked with AWS services such as EC2, VPC, RDS, CloudWatch, CloudFront, Route53 etc

- Amazon Web Services (AWS), EC2 Storage Managements integration and utilization within this infrastructure and applications with Configuring and Networking of Virtual Private Cloud (VPC).
- Worked on migration from on premise to AWS which includes Migrating existing applications, building new servers, deploying applications, setting up automation in new environments, creating CI/CD pipeline for Dev and Test environment.
- Design and develop fully automated software delivery pipelines
- Collaborate with development teams to implement CI/CD pipelines using tools like Jenkins, GitLab CI/CD, or other similar platforms to automate the build, test, and deployment processes.
- Design and automate cloud environments at scale using Infrastructure as Code tools like Terraform and CloudFormation.
- Used Terraform/CloudFormation to manage AWS cloud infrastructure. Created Terraform modules for the AWS Resources and published on Terraform Registry.
- Written Terraform scripts from scratch for building dev, qa, uat and prod in aws environments.
- Design, develop, test, and maintain Python-based applications, scripts, and tools that facilitate various aspects of the software development and deployment process.
- Implement containerization using Docker and container orchestration using Kubernetes to enhance application scalability and manageability. Worked in container-based technologies like Docker, Kubernetes.
- Set up monitoring and logging systems to ensure the availability, performance, and security of applications and infrastructure.
- Manage code repositories using Git and apply best practices to ensure smooth collaboration within the development team.
- Implement security measures and best practices to protect the organization's infrastructure and applications, ensuring compliance with industry standards and regulations.
- Work closely with cross-functional teams including developers, QA engineers, and system administrators to provide support, resolve issues, and improve overall software development processes.
- Maintain detailed documentation of configurations, processes, and procedures for easy reference and knowledge sharing.
- Continuous improvement in system visibility and applications with advanced monitoring, metrics and log analytics
- Identification of root causes on critical problems throughout the platform, incident reports and communication.
- Maintain, monitor, and help improve the performance and availability of the 24x7 production environment including networks, servers, databases, etc.
- Troubleshooting and supporting our production and QA environments.
- Participate in on-call rotation and provide hands-on support during emergencies, outages, and service transitions.
- Participate in creating long-term and short-term strategies for scaling the production environment.
- Provide deployment support by deploying applications and microservices in different environments.

EDUCATION: GUJARAT TECHNOLOGICAL UNIVERSITY - B.E COMPUTER SCIENCE - 2014