Devanshu Oza | DevOps Engineer

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Professional profile

DevOps / Cloud / AWS / Full Stack

DevOps Engineer with 4+ years of experience in AWS cloud environment. Good hands-on in design, development and testing of large to medium size **enterprise applications**, **IOT solutions**, **Infrastructure design & implementations**, **Configuration management**, **Continuous Integration**, **Release management**, **Cloud implementation**, **Application monitoring** and **infrastructure monitoring**.

IT/Technical skills

Operating System	Linux,Windows
DevOps Tools	Jenkins, Docker, Kubernetes, Terraform, Ansible, Chef, Prometheus, Sonarqube, Harness, Docker-compose, Appdynamics, RabbitMQ, PagerDuty, Sentry, Consul, Nagios, EFK, Vagrant, Maven, Gradle, Splunk, Jfrog Artifactory, Supervisor, Helm, Logstash, Grafana, Rancher, Istio
Languages / Scripting	Python, Node JS, Shell
Web Development	HTML, CSS, JavaScript, JQuery, Ajax, Angular JS, React Js
Database	**RDBMS** – SQL Server, MySQL, Oracle
	NoSQL – MongoDB, Cassandra
	In-memory/Caching – Redis
Web/Servers Technologies:	Nginx, Websocket, REST APIs development, REST Framework, Bottle, Flask, HTML, CSS, Bootstrap, JavaScript, MEAN Stack
Cloud Technologies	Amazon Web Services, Google cloud engine, Alibaba cloud
Network Protocol	TCP, UDP, AMQP, MQTT
Version Control	Git, SVN
Networking Tools	Wireshark, SSH
Other skills	JSON,XML,JWT

Certificates

AWS Certified Developer – Associate

Work Experience

Working as a Backed Engineer/DevOps Engineer at Einfochips (Ahmedabad) Since July-2016.

Career summary

Experience in executing the following kind of projects:

1. Home Security Camera:

It's a smart application being developed for security cameras which covers half a market share in the US.

My Contribution	• Working as a DevOps Engineer (Solution Consultant). • Creating the automated build and deployment process for application, re-engineering setup for better user experience, and leading up to building a continuous integration system for all our products. Used various CI tools like Jenkins, Ansible, Chef, Docker, and Kubernetes. • Performed containerization of microservices using Docker and rolled out to upper environments. • Implemented AWS solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, Auto-scaling groups. • Integrating application monitoring tools like Prometheus and Appdynamics in different projects where the client has **3000+ AWS instances**. • Automated deployment in the Kubernetes cluster with auto-scaling enabled. • Automated deployment in the kubernetes cluster using Custom Helm charts and Harness. • Setup different monitoring tools like Nagios, Cloud Watch, Zabbix, Prometheus, Appdynamics. • Setup HA Jfrog Artifactory to store different kinds of Artifacts. • Implemented incident management using PagerDuty, VictorOps, Elast Alert. • Cloud Watch – Configured monitoring metrics on AWS services, which include EC2, ELB, S3, EBS, and RDS. Configured alerts and alarms based on defined SNS topics. • Implemented automated backup of EBS using Snapshot for DR. Managing scripts for DR in AWS for volumes. • Implemented service mesh like istio. • **Minimized the deployment time by 70% by providing the complete CI-CD cycle and decreased the failure of deployment from 30-40% to lesser than 5%.** • **Minimized the infrastructure cost by 20% by implementing proper AWS services.**
Platform	Linux(Ubuntu)
Development Tools	Amazon Web Services, Terraform, Ansible, Chef, Docker, Kubernetes, Jenkins, EFK, Prometheus, Sonarqube, Git, EKS, Rancher, Helm, Maven, Gradle, Splunk, Jfrog Artifactory, Consul, Harness, Appdynamics, Grafana, Istio

2. Infrastructure Monitoring :

Infrastructure monitoring enables organizations to identify and resolve AWS infrastructure problems before they can adversely affect critical business processes. They give insight into the status of AWS cloud instances, Dynamodb. In addition to monitoring the cloud Instances as well as an application running on the same. It quickly report to the authorized person when any incident occurs. They can also help ensure that any necessary outages have minimal impact on users.

My Contribution	• Setting up an EC2 Instance to run the web application. • Setting up Nagios for infrastructure monitoring using the NRPE plugin. • Automate notification using AWS cloud-watch & PagerDuty to notify the appropriate user group. • Prepare a dashboard and deployed it in s3. • Setting up Sentry for monitoring logs of an application server.
Platform	Linux(Ubuntu)
Development Tools	AWS EC2, Dynamodb, S3, Nagios, Sentry, supervisor for process management

3. Remote Device Management - A cloud solution to manage IoT or Industrial devices :

Remote Device Management (RDM) is a platform on cloud enabling remote management of connected devices. This platform comprises services and features spanning from device on-board, device registration, authentication, device configurations management and control, device monitoring and diagnostics, device software updates and maintenance.

My Contribution	I was involved in the development of core services described below: • User management & authentication Service • Configuration service • Control service • LWM2M client-server development • Alert Service • Automated deployment process • The deployment process was done by using Docker, Github & Jenkins • Defining sentry bases logger management • PM2 for Process Management
Platform	Linux(Ubuntu)
Development Tools	ExpressJS(Node JS), Cassandra, Redis, AngularJS, HTML, CSS, RabbitMQ, JWT, GIT

4. Load Balancer :

Load Balancer provides you the capability to route traffic according to configurations made by a user in a load balancer. It is using multiprocessing architecture to serve multiple requests at a time and handle more heavy traffic easily. It is very easy to use and configure for small and medium type applications.

My Contribution	End to End Solution
Platform	Linux(Ubuntu)
Development Tools	Python

5. Serverless Code Deployment :

Serverless Code deployment gives you the power to write your code without worry about hosting. In this application, you have to write code within a function and on the single click it will be deployed and ready to use. You can easily access that using API’s.

My Contribution	End to End Solution
Platform	Linux(Ubuntu)
Development Tools	Python, RabbitMQ, Docker SDK, Nginx, Registrator, consul

Education and qualifications

- M.Sc (Information Technology) from Charotar University of Science and Technology, Changa.
- B.Sc (Information Technology) from Ganpat University, Kherva.