

ANKIT SINGH RATHI

DevOps Engineer | AWS Certified | ankitrathi.info | CKA | CKAD

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EXPERIENCE

DevOps Engineer

Tradeling.com

01/2020 - Ongoing | Dubai, UAE

- Set up **Infrastructure** on Self Managed **Kubernetes** cluster from scratch on AWS using **ansible**, **terraform** and poseidon/typhoon.
- Set up **Monitoring** for Tradeling Infrastructure from scratch using **ELK stack**, **metricbeat**, **journalbeat** and **ansible** which collects data from 100+ servers across 3 environments
- Set up **CI CD** on **Github Actions** and **Docker Jenkins** using ansible running **15000** jobs daily
- Created Monitoring **Dashboards** in Kibana for API Performance, MongoDB, NATS, MySQL, Kubernetes, Hosts, System Monitoring and Docker.
- Daily Automated Releases using **python** script (**2000+ lines of code**) sending **automated email change log** of **50+ repositories** to respective teams.
- Maintaining Self Managed Databases including **MySQL**, **MongoDB** using docker-compose
- Daily backups** of MongoDB, MySQL using ansible being uploaded to AWS S3 buckets
- 24/7 automated website monitoring using **Prometheus**, alertmanager, blackbox exporter with automated slack alerts
- All Kubernetes manifests maintained using **PHP** scripts. All Jenkins Jobs maintained using **Groovy** scripts
- On call 24/7 as a L4 engineer.

DevOps Engineer

Accelya Group

11/2018 - 01/2020 | Dubai, UAE

- On call 24/7 Support As L2 Engineer
- Setting up Infrastructure of the new customers for Development, UAT and Production Environments on **Weblogic** and **Tomcat** Platforms.
- Migration** of the build-jobs of **66 customers** to separate the 'Builds & Deployments'
- Build **JIRA Dashboard** for the team. This was extensively used by all teams to log tickets and follow the DevOps Approach

Software Engineer

Walmart Labs

01/2017 - 10/2018 | Bangalore, India

- Created DevOps Automation **Dashboard** using **Django**, **Python** to automate **splunk** alert actions

CERTIFICATION

Certified Kubernetes Administrator

Certified Kubernetes Application Developer

AWS Certified Solutions Architect - Associate

EDUCATION

B.E. Computer Science and Engineering

Bangalore Institute Of Technology

07/2013 - 07/2017 | Bangalore, India

GPA

75 /

100

FIND ME ONLINE

ankitrathi.info

[Blogger](https://codeaprendiz.blogspot.com)
<https://codeaprendiz.blogspot.com>

[LinkedIn](http://www.linkedin.com/in/ankit-singh-rathi)
www.linkedin.com/in/ankit-singh-rathi

[GitHub](http://www.github.com/codeaprendiz)
www.github.com/codeaprendiz

[Stack Overflow](https://stackoverflow.com/users/5761011/codeaprendiz?tab=profile)
<https://stackoverflow.com/users/5761011/codeaprendiz?tab=profile>

[HackerRank](https://www.hackerrank.com/codeaprendiz)
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[HackerEarth](https://www.hackerearth.com/@codeaprendiz)
<https://www.hackerearth.com/@codeaprendiz>

SKILLS

kubernetes aws terraform

ansible python php bash

groovy docker jenkins git

drone ci tomcat svn grafana

logstash kibana prometheus

ELK metricbeat splunk

journalbeat alertmanager

github actions elastic search

linux fedora-core-os windows

helm mongo-db mysql

oracle-sql java blackbox-exporter

PROJECTS

Self Managed K8S using opensource Typhoon

📅 01/2020 📍 Dubai

🔗 <https://github.com/codeaprendiz/terraform-kitchen/tree/master/aws/task-021-k8s-cluster-typhoon>

Tradeling Kubernetes Infrastructure Setup Using poseidon/typhoon

- Created using AWS, Terraform and OpenSource poseidon/typhoon repository.
- Used Reserved and **Spot** Instances to **save cost**
- The cluster is **self healing**. Whenever spot instance is terminated, **lamda** function triggers a **webhook** in Jenkins which runs **ansible playbook task** to **drain** the corresponding kubernetes cluster node
- All the AWS resources are created using terraform scripts
- **Sample** minimal task is committed to the link given in above **Project URL**

Monitoring And Logging Setup Using ELK Stack

📅 02/2020 📍 Dubai

🔗 <https://github.com/codeaprendiz/devops-essentials/tree/main/monitoring>

Tradeling Monitoring and Logging Setup from scratch to setting up dashboards

- **ELK** i.e. Elastic Search, Logstash and Kibana is used. All have been set up on individual instances using **docker-compose** and **ansible playbooks**
- **Journalbeat** is used to set up logging for kubernetes
- **Metricbeat** is used for getting metrics of kubernetes, instances, mongodb, mysql, NATs
- **Dashboards** set up for Kubernetes, System, Host, MongoDB, MySQL, NATs, Docker monitoring
- **URL monitoring** and **Alerts** on slacks using Prometheus, Alertmanager, Blackbox-Exporter
- **Prometheus, Alertmanager, Blackbox-exporter** set up done using ansible, docker-compose
- **Sample** Dashboard set up link have been given in the above **Project URL**

Automated Releases to Staging and Production

📅 04/2020 📍 Dubai

Daily Automated Stage Release. Weekly Automated Production Release

- **Python** script with **2000+** lines of code
- Created **ansible-task** to automate release to staging environment which was triggered through Jenkins
- **Automated Change Log-Email** sent to the dedicated audience after the release
- **Live Updates** of the release on **Slack Channel** showing status of builds and deployments

Infrastructure setup using Terraform, Ansible

📅 01/2020 📍 Dubai

🔗 <https://github.com/codeaprendiz/terraform-kitchen>

Tradeling Infrastructure Setup from Scratch using Terraform, Ansible

- Setting up 3 environments - **Prod**, Stage, DEV
- Each environment consisting of **VPCs, EC2, Route53** records, Route tables, Security Groups, Bastion hosts etc
- Maintaining the infrastructure as per **PCI** Compliance by co-ordinating with the associated parties.
- **Maintaining** the infrastructure as per the **latest version of terraform**
- Planning regular **upgrades** of self managed services like **MongoDB, MySQL, NATs**

ankitrathi.info | DevOps Essentials

📅 06/2020 📍 Dubai

Creating a website for DevOps Essentials

- Terraform: <https://github.com/codeaprendiz/terraform-kitchen>
- Kubernetes: <https://github.com/codeaprendiz/kubernetes-kitchen>
- Ansible: <https://github.com/codeaprendiz/ansible-kitchen>
- DevOps-Essentials : <https://github.com/codeaprendiz/devops-essentials>
- Linux - <https://ankitrathi.info/devops-essentials/linux-commands/linux-commands-index.html>

LANGUAGES

English

Advanced



Hindi

Native



TRAINING / COURSES

Certified Kubernetes Administrator (CKA) with Practice Tests

Docker And Kubernetes : The Complete Guide

Mastering Ansible

AWS Certified Solutions Architect - Associate

Python And Django Full Stack Web Developer Bootcamp

ACHIEVEMENTS



Daily Automated Releases to Stage And Weekly to Prod

It took a lot of **sleepless** nights to develop **2000+ lines** of **python** code which sends live slack alerts for build status and deployment status, calculates the change log of **50+ repositories** and send automated email to required audience



AWS Certified Solutions Architect - Associate

It took a lot of extra effort to prepare beside office hours. It has also opened new doors for getting further certifications particularly in the field of Cloud, Kubernetes etc.

PASSIONS



Coding



Documenting



Healthy Lifestyle



Learning



Staying up to date with DevOps Trends and Technologies