Ajay Tekam

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Proficient in DevOps, automation, CICD, Build Pipelines, Jenkins pipelines, version control, scripting, Cloud services, AWS, Containers and microservices, SDLC models.

Projects

CICD Pipeline for Java Application to Deploy on AWS ECS Cluster using Jenkins, Github, Docker, SonarQube, Terraform, Maven

https://github.com/Ajaytekam/Jenkins-CICD   *Dec 2022 - Present*

- Created **EC2** instances for Jenkins, sonarqube and Nexus server using Terraform
- Integrated Jenkins with **sonarqube** for static code analysis & quality gate checks and **Nexus server** to store project artifact.
- Created **Jenkins pipeline build**, source code is fetched from **github repository**, project gets built using maven, artifact gets stored on **nexus server** and **docker image** gets build and pushed on to the **AWS ECR** and gets deployed on the **AWS ECS** cluster. Also set up a slack notification for Build Jobs. Set up **GitHub webhook** to trigger Jenkins build job. Created **AWS RDS** for database , **Amazon Elastic Cache** and **Amazon Active MQ** services.

Deploying Java Application on Kubernetes Cluster (Kops, aws EC2)

https://github.com/Ajaytekam/K8s_Cluster deploy   *Jan 2023- Present*

- Created and configured **Kubernetes Clusters** on **AWS EC2** instance with **kops** and **kubectl**. Containerized the application, create **docker images** and pushed into **dockerhub container registry**. Created Kubernetes manifest files to create deployment and service components for application, database, memcache and rabbitmq containers.
- Created **EC2 volume** and mount it to database deployment, deployed all the components and setup **AWS Route53** subdomain to access the web application.

Deploying Java Web Application on AWS using EC2, S3, Route53, ACM

https://github.com/Ajaytekam/AWSVprofileApp   *Nov 2022 - Present*

- Created **EC2** instances for tomcat web server, mysql database, Memcached and Rabbit MQ service, create private hosted zone in **Route53** for the backend services, create **IAM roles** to access with S3 access to deploy the artifact to app server from **S3 Bucket**, generate SSL Certificate and validate domain with **ACM** service. Setup load balancer with autoscaling group and redirect the public load balancer dns to custom domain.

Hosted Jekyll Site on AWS S3 using GitHub Actions, Cloudfront CDN, Route53 and AWS Certificate Manager for SSL Certificate

https://github.com/Ajaytekam/s3_static_site   *Feb 2023 - Present*

- Created CI pipeline using **Github Actions** to host static website on **S3 Bucket**.
- Website Artifcact is generated using Jykell (static site generator) and push onto **S3 bucket**, and **CloudFront CDN** is used to distribute website content, and a custom domain **https://blog.aliencloud.tech** is configured via **Route53** service and **AWS Certificate Manager** for SSL Certificate.

Created a CRUD API using Lambda service , DynamoDB and API Gateway

https://github.com/Ajaytekam/LambdaServiceAPI   *Apr 2023 - Present*

- Created **DynamoDB** Table named `posts` and import sample json data using python script with **Boto3** library.
- Created a **Lambda function** to fatch data from **dynamoDB** and assign permission to the lambda function to fetch data from dynamoDB.
- In **API Gateway** created an **API endpoint** which supports **GET**, **POST**, **PUT** and **DELETE HTTP methods** and integrate them with the lambda function.
- Tested the API endpoint using the **Postman** tool with all four supported methods.

Certifications

AWS Certified Cloud Practitiner

Cred.ID VSXZJKRC9M1416GQ
https://credly.com/badges/48ab3602-5872

Technical Skills

Jenkins   *Docker*   *Kubernetes*
Ansible   *Kops*   *ACM*   *Terraform*
Git and Github   *Github-Actions*
Sonarqube   *Nexus3*   *Shell Scripting*
Maven   *EC2*   *S3*   *IAM*   *DynamoDB*
Route53   *CloudFront*   *API Gateway*
ElasticBeanStalk   *Lambda Service*
Amazon MQ   *Amazon ElastiCache*
CodePipeline   *CodeDeploy*   *VPC*
CodeCommit   *CodeBuild*   *ECS*
ECR   *YAML*   *RDS*

Programming/Scripting

- **Python :** *intermediate level experience with libraries like boto3, requests, paramiko, BeautifulSoup, fabric etc.*
- **Bash Scripting :** *intermediate level of writing automation and provision scripts.*
- **YAML, JSON**

Education

Master of Computer Applications
Guru Ghasidas University, Bilaspur (2018 - 2021) **CGPA 7.8**

Bachelor of Comp. Applications
Bilaspur University, Chhattisgarh (2015 - 2018) **67 %**

Contributions

Blog   : blog.ajaytekam.com
Github   : github.com/ajaytekam
Dockerhub : hub.docker.com/ajaytekam