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PROFESSIONAL SUMMARY:

- 3+ years of experience in the IT industry comprising build release management, software configuration, design, development, and cloud implementation.
- Worked on designing, deploying and operating highly available, scalable and fault tolerant systems using **Amazon Web Services (AWS)**.
- Experienced in implementing Organization DevOps strategy in various operating environments of **Linux and windows servers** along with cloud strategies of **Amazon Web Services**.
- Experience in core **AWS** services (**S3, EC2, ELB, EBS, Route53, VPC, Auto scaling** etc.) and deployment services (**Elastic Amplify, Lambda, Cloud Formation**) and security practices (**IAM, Cloudwatch and Cloudtrail**).
- Experience in Administration/Maintenance of Source Control Management Systems and version control tools such as **GIT, GITHUB, GitLab**.
- Proficient in writing Cloud Formation Templates (**CFT**) in **YAML** and **JSON** format to build the **AWS** services with the paradigm of Infrastructure as a Code.
- Setting up databases in AWS using **RDS**, storage using **S3** buckets and configuring instance backups to **S3 bucket**.
- Excelled on creating **AMI (AWS Machine Images)** that utilizes **ELB (Elastic Load Balancer)** and **Auto Scaling**.
- Gained knowledge in deploying applications to their respective environments .
- Experienced with event-driven and scheduled **AWS Lambda** functions to trigger various AWS resources.
- Acquired practical exposure with **Continuous Integration/Continuous Delivery** tools like **Jenkins** to merge development with testing through pipelines.
- Develop automation and processes to enable teams to **deploy, manage, configure, scale** and **monitor** their applications in data centers and in the cloud.
- Database knowledge using **SQL, PgSQL, Neo4j** and **MongoDB**.
- Provided 24/7 on call support in the **Production** environment.

Education:

Bachelor of Engineering in Computer science and Engg from JACSI college of engg ,Anna University, TN,India (2016-2020)

Certification:

AWS Certified Solutions Architect – Associate C03
Microsoft Certified: Azure AI Associate - 102
Professional Cloud DevOps Engineer

Technical Skills:

Operating Systems	:	Debian, Linux, Windows
Cloud	:	AWS (EC2, ECR, Lambda, S3, ELB, Amplify,EBS,EKS, EFS, RDS, VPC, Route53, Security Groups, CloudWatch, CloudTrail, IAM Rules, SNS, CDN, SQS,Secret Manager), GKE, DigitalOcean, Azure
WEB Technologies	:	Jenkins, GitActions, GitLab CI/CD
Application/Web Servers	:	Apache, Tomcat, and Nginx
Scripting:		UNIX Shell Scripting, Python
Monitoring Tools	:	Grafana, ELK and Nagios
RDBMS	:	SQL-Server
Protocols	:	TCP/IP, DNS, FTP, SMTP, SOAP and HTTP

PROFESSIONAL EXPERIENCE:

Organization: CloudifyOps Chennai, IN

Client: Sunbird Bangalore, IN

FEB 2024 - Present

DevOps Engineer

Roles & Responsibilities:

- Utilized Terraform to orchestrate the creation of an EKS cluster, worker nodes, kubectl node, and developer kubectl node within the production environment. This comprehensive setup encompassed the deployment of a Virtual Private Cloud (VPC), configuration of both public and private subnets, establishment of security groups, route tables, and the deployment of an Elastic Load Balancer. Additionally, various building blocks and microservices were deployed
- Set up and built AWS infrastructure resources including VPC, EC2 instances, S3 buckets, IAM roles and policies, EBS volumes, Security Groups, and Auto Scaling configurations using CloudFormation templates in YAML/JSON formats.
- Administer, secure, and maintain multiple **Kubernetes** clusters to support a global service.
- Worked on **Jira** to plan, track, support and close requests, tickets and incidents.

Environment: Git, Jenkins, Cloud Formation, AWS EC2 S3, VPC, EKS, EFS, Docker, Shell scripting, Apache ,Nginx, and python.

Organization: Siam Computing Chennai, IN

Client: Sri Kauvery Hospital pvt ltd, Chennai, IN

MAR 2023 - JAN 2024

Devops Engineer

Roles & Responsibilities:

- Utilized **Terraform** to orchestrate the creation of an **EKS** cluster, worker nodes, **kubectl** node, and developer **kubectl** node within the **production** environment. This comprehensive setup encompasses the deployment of

Virtual Private Cloud (VPC), configuration of both public and private subnets, establishment of security groups, route tables, and the deployment of an Elastic Load Balancer.

- Setup and build AWS infrastructure various resources, **VPC EC2, S3, IAM, EBS, Security Group and Auto Scaling** in **Cloud Formation** YAML/JSON templates.
- Used **CloudWatch** for monitoring **AWS cloud** resources and the applications that deployed on **AWS** by creating new alarms, enabling notification service.
- Used **DNS** management in **Route53** , Amazon **S3** to backup database instances to save snapshots of data.
- Participated in the release cycle of the product which involves environments like **Development, QA, UAT and Production**.
- We've integrated our databases into **MongoDB Cloud**, and this service is connected to our **EKS** cluster through **VPC** peering.
- Setup **Gitlab CI/CD** tool to integrate the **Python Django/FastAPI** projects and maintain **Gitlab CI/CD** with continuous integration and deployment along with **GIT** integration.
- Responsible for Continuous Integration (CI) and Continuous Delivery (CD) process implementation using **Gitlab** along with Shell scripts to automate routine jobs using **Docker** as a Continuous Delivery (CD) process.
- Integrated **Docker** container orchestration framework using **Kubernetes** by creating **pods**, config Maps, deployments.
- Application secrets are stored in **AWS Secret manager** and it's deployed in the **EKS cluster**.
- Administer, secure, and maintain multiple **Kubernetes** clusters to support a global service.
- Worked on **Clickup** to plan, track, support and close requests, tickets and incidents.
- Implemented monitoring solutions with **Grafana** and **Prometheus**.
- Established a website monitoring system using **UptimeKuma**, which is seamlessly integrated with both **Google Chat** and **Slack**.
- **24X7** on call production support, technical support, troubleshooting, problems.

Environment: AWS, GitLab, Terraform, VPC, EC2, S3, DNS, Route53, Docker, Kubernetes, EBS, IAM, CloudWatch, Cloud Formation, AWS CLI, AWS Auto Scaling, Elastic search and Log stash Clickup.

Organization: Icanio Technologies Tirunelveli, IN

Client: Qpay QAX Tech, Tirunelveli, IN

APR 2022 - MAR 2023

Devops Engineer

Roles & Responsibilities:

- Build and configure a virtual data 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**.
- Setup and build AWS infrastructure various resources, **VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS** in **Cloudformation**/JSON templates.
- Used **CloudWatch** for monitoring **AWS cloud** resources and the applications that deployed on **AWS** by creating new alarms, enabling notification service.
- Used **DNS** management in **Route53** , Amazon **S3** to backup database instances to save snapshots of data.
- Participated in the release cycle of the product which involves environments like **Development, QA, UAT and Production**.
- Setup **Jenkins** tool to integrate the **NodeJS/ReactJS** projects and maintained **Jenkins** with continuous integration and deployment along with **GIT** integration.

- Responsible for Continuous Integration (CI) and Continuous Delivery (CD) process implementation using **Jenkins** along with Shell scripts to automate routine jobs using **Docker** as a Continuous Delivery (CD) process.
- Integrated **Docker** container orchestration framework using **Kubernetes** by creating **pods**, config Maps, deployments.
- Administer, secure, and maintain multiple **Kubernetes** clusters to support a global service.
- Worked on **Jira** to plan, track, support and close requests, tickets and incidents.
- Implemented monitoring solutions with **Elastic search** and **Log stash**.
- 24X7 on call production support, technical support, troubleshooting, problems.

Environment: AWS, Git, Jenkins, VPC, EC2, S3, DNS, Route53, Docker, Kubernetes, EBS, IAM, CloudWatch, Cloud Formation, AWS CLI, AWS Auto Scaling, Jira, Elastic search and Log stash.

Organization: Icanio Technologies Tirunelveli, IN

Client: ResolveIndia, Bengaluru, IN

May 2021 – Dec 2021

DevopsEngineer

Roles & Responsibilities:

- Responsible for designing, building and deploying cloud-based solutions, focusing on clients looking to move their legacy infrastructure to a more cost-effective environment.
- Worked extensively with AWS services like **EC2, S3, VPC, ELB, AutoScalingGroups, Route 53, IAM, CloudTrail, CloudWatch, CloudFormation, CloudFront, SNS, and RDS**.
- Created a system capable of creating Linux based application node's whenever required with option to provision or switch to any environment like **dev, stage or production**.
- Setup **EKS** cluster, worker nodes, **kubectrl** node, **Jenkins** node and developer **kubectrl** node on Prod.
- Gained good experience by working with configuration management tool **CI/CD** tool **Jenkins**.
- Built postgres 10.6 **RDS** instance in all env .
- Built **S3, ELasticsearch** and restricted the access to both the resources using **IAM** policies and resource based policies. Added elasticsearch and **RDS** secrets to **secrets manager**.
- Made extensive use of **Bitbucket, Github, Jenkins to manage build / deploy** tasks, including Continuous Integration.
- Create automated pipelines in AWS CodePipeline to deploy Docker containers in AWS **ECS** services like **CloudFormation , CodeBuild , CodeDeploy , S3 .**
- Developed Kubernetes manifests to deploy a **EFS** dynamic provisioner to provide persistent storage to pods in the **EKS** cluster.
- Creating Dockerized web application servers with complete infrastructure. Installed and configured **Kubernetes** master controller and minions/nodes across the environment.
- Creating and deploying **Kubernetes** pod definitions, tags, labels, multi-pod container replication.
- Managed multiple **Kubernetes** pod containers scaling, and **auto scaling**.
- Implemented **Docker** automation solution for Continuous integration / Continuous Delivery model.
- Scripting experience in bash, **python** etc.
- 24X7 on call production support, technical support, troubleshooting, problems.

Environment: Git, Jenkins, Cloud Formation, AWS EC2 S3, VPC, EKS, EFS, Docker, Shell scripting, Apache ,Nginx, and python.

Organization: Icanio Technologies Tirunelveli, IN

Client: CareerLabs, Bengaluru,IN

MAY 2021 – MAR 2022

DevOpsEngineer

Responsibilities:

- Performed 24x7 Production support for the several applications across different business areas.
- Developed **AWS Cloud Formation** templates to create custom sized **VPC, Subnets, EC2 instances, ELB, Security Groups**.
- Install and configure SSL certificates for **Nginx web server** in various environments.
- Configured and administered PgSQL database.
- Deployed the applications on multiple Weblogic Server and maintained **Load balancing, high Availability and Fail over** functionality.
- Installed and configured Apache2 web server to work with the **Main site** in UAT Stage and Production environments.
- Deployed and configured **GIT** repositories with branching, forks, tagging, and **GIT** notifications.
- Worked in all areas of **Jenkins** setting up CI for new branches, build automation, plugin management and securing Jenkins and setting up **master/slave configurations**.
- Experience working on several **Docker** components like Docker Engine, Hub, Machine, creating Docker images, Compose, **Docker** Registry and handling multiple images primarily for middleware installations and domain configurations.
- Container management using **Docker** by writing Dockerfiles and set up the automated build on **AWS ECR** and installed and configured **Kubernetes**.
- Design roles and groups using **AWS Identity and Access Management (IAM)**, and manage network using Security Groups, Network Access Control Lists with services provided by IAM.

Environment: Git, AWS, S3, EKS, ELB, VPC, EC2, Jenkins, Docker, Apache, Nginx, Python, UNIX, Shell Scripting.