

Robert Teah

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Professional Summary

Hands-on professional with a strong understanding of AWS looking for cloud DevOps roles. Extensive experience in three tier application and devops tools and practices. Skilled in working under pressure and adapting to new situations and challenges to best enhance the organizational brand. Expert level experience of Amazon EC2, S3, RDS, Elastic IPs, EBS, Security Groups, Dynamo DB, Cloud Formation, Terraform, Git, Ansible, Route 53, VPC, Elastic Cache, Elastic Load Balancing, SQS, and other services in the AWS cloud infrastructure. Open to remote, in-person positions and willing to relocate.

Education & Certifications

- Udacity Nanodegree, AWS Cloud Architect - Lead your organization's cloud computing strategy as an AWS Cloud Architect. Plan, design, and build secure, high availability cloud infrastructure.
Job-Related Coursework: **Design for Availability, Reliability, and Resiliency, Design for Performance and Scalability & Design for Security**
- Udacity Nanodegree, Cloud DevOps Engineer - Operationalized infrastructure at scale and deliver applications and services at high velocity.
Job-Related Coursework: **Cloud Foundations, Deploy Infrastructure as Code (IAC), Build CI/CD Pipelines, Monitoring & Logging & Microservices at Scale using Kubernetes**
- AWS Certified Solutions Architect (In-View)

Work Experience

- Cloud Support Engineer, Freelancing,** May 2020 - Present
- Plan, build, and configure network infrastructure using AWS VPC and other network components
 - Provision AWS resources using AWS Management Console, Command Line Interface (CLI)
 - Create and manage AWS infrastructures using Infrastructure as Code (IAC) tools like Terraform and CloudFormation
 - Responsible for launching EC2 instances and bootstrapping the instances using user data
 - Define firewall based on client requirements
 - Create IAM user accounts and role-based policies for access to AWS services
 - Create and manage users' permissions, directories, and files in both Window and Linux environments

- Create EBS volumes from snapshots
- Implement, maintain, monitor alarms and notifications for AWS services using CloudWatch and SNS
- Manage configuration of servers using Ansible
- Deploy Serverless Architecture using DynamoDB and Lambda
- Launch Amazon EC2 Instances using various images including Linux and Windows AMIs
- Install application on AWS EC2 instances and configured the storage on S3 buckets
- I have implemented CICD using Jenkins, Git and Docker
- Launch database instances via RDS to support application functionality
- Provision AWS systems that are highly available using Autoscaling Group and Load Balancing
- Create and manage lifecycle rules to transition objects from standard S3 to cheaper storage classes like Glacier and Deep Archive
- Experience with CloudFront, Route53, AWS Config, CloudFormation, etc.
- Troubleshoot and resolve EC2 instance connectivity and availability issues
- Knowledgeable in Virtual Private Network (VPN), Data Security, Backup & Recovery
- Perform Monthly Patches on AWS servers
- Create low latency website using S3, CloudFront, and Route53
- Install Apache Web Server
- Evaluating system-based configuration and security vulnerability to ensure compliance with the organization's standards
- Actively monitoring, researching, and analyzing ways in which the services in AWS can be improved.

WordPress Support Engineer, FutureMedia, LLC
2012 - 2019

May

- Wrote and reviewed tickets to request maintenance to various types of equipment.
- Created help desk tickets, troubleshoot and resolved desktop issues.
- Used advanced VM skills to create server for clones, snapshots, and templates
- Created and maintained backup and recovery policy for server to be decommissioned
- Involved with implementing, planning, and preparing disaster recovery
- Configured VLANs and implemented inter VLAN routing
- Upgraded and troubleshoot Cisco IOS to the Cisco switches and routers
- Configured and verified switching protocols, VTP, VLANs, STP, RSTP and HSRP
- Configured and verified routing configuration for a static or default route given specific routing requirements Static vs dynamic
- Configured and verified routing protocols, RIP, OSPF, EIGRP, BGP, MPLS, Frame Relay, IP Services

- Performed firsthand administration, monitoring, and troubleshooting of Local Area Network (LAN), resulting in optimum performance and minimum downtime
- Utilized a ticketing system for incident reporting, tracking, updating or escalation
- Resolved diverse range of technical issues across multiple systems and applications for customers and end-users across various time zones.
- Researched product and issue resolution tactics to address customer concerns.

IT Support Engineer, HMS Host

Jan 2006 – May 2012

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Hands-on Projects

- **Highly available website on AWS**
 - Built a static website using S3, CloudFront, and Route53.
- **AWS Serverless event-driven architecture**
 - Designed and built an event-driven system with EventBridge, SQS, SNS, Step Function, Lambda.
- **Microservice on AWS**
 - Created microservice using API Gateway, Lambda, DynamoDB.
- **Kubernetes on AWS**
 - Created container, deployed on Amazon EKS, and exposed using ALB.
- **AWS services in compute, storage, networking, observability, security**

- Hands-on knowledge of VPC, EC2, Lambda, EKS, Fargate, CloudWatch, IAM, RDS, DynamoDB, S3, and others.

■ **Recoverability in AWS**

- In this project, I build a multi-availability zone, multi-region database. I demonstrate how applications can use this distributed infrastructure and migrate your primary database from one geographical region to another. I also create a versioned website and demonstrate how it is protected from accidental or malicious disruption, with an ability to turn-back-the-clock when something disrupts your normal operations.

■ **Design, Provision, and Monitor AWS Infrastructure at Scale**

- In this project, I plan, design, provision, and monitor infrastructure in AWS using industry-standard and open-source tools. I practice the skills I learned throughout the course to optimize infrastructure for cost and performance. I also use Terraform to provision and configure AWS services in a global configuration.

■ **Securing the Recipe Vault Application**

- My role in this project was to secure the Recipe Vault. In this project, you will deploy and assess a simple web application environment's security posture. You'll have a chance to test the security of the environment by simulating an attack scenario and exploiting cloud configuration vulnerabilities. You'll also set up monitoring to identify suspicious behavior and vulnerable configurations and you will remediate the identified misconfigurations. Finally, you will tie it all together by proposing a DevOps build pipeline that includes security best practices.

■ **Deploy a Static Website on AWS**

- The cloud is perfect for hosting static websites that only include HTML, CSS, and JavaScript files that require no server-side processing. In this project, you will deploy a static website to AWS. First, you will create a S3 bucket, configure the bucket for website hosting, and secure it using IAM policies. Next, you will upload the website files to your bucket and speed up content delivery using AWS's content distribution network service, CloudFront. Lastly, you will access your website in a browser using the unique S3 endpoint.

■ **Deploy a High-Availability Web App Using CloudFormation**

- In this project, you'll deploy web servers for a highly available web app using CloudFormation. You will write the code that creates and deploys the infrastructure and application for Instagram-like app from the ground up. You will begin with deploying the networking components followed by servers, security roles and software. The procedure you follow here will become part of your portfolio of cloud projects You'll do it exactly as it's done on the job: following best practices and scripting as much as possible.

■ **Build an automated CI/CD Pipeline for UdaPeople**

- In this project, you'll demonstrate your Cloud DevOps engineer skills as a new employee at UdaPeople, an innovative new Human Resources company

that depends on quick release cycles and a rock solid, high-quality product. You will help the development team deliver value continuously by building an automated CI/CD pipeline. Those new skills will also be put to the test as you set up automated monitoring and alerting to ensure the delivered value stays valuable. Thanks to your new skills and hard work, UdaPeople will have a massive competitive advantage in the PeopleOps marketplace and will surely go on to change the world!

■ **Operationalized a Machine Learning Microservice API**

- In this project, you will continue your work on operationalizing microservices by deploying an elastic and fault-tolerant Machine Learning inference API using Kubernetes. You'll configure this microservice to be highly available by using Kubernetes best practices. You will validate your design by load testing the service and verifying the application architecture performs as designed.

■ **CI/CD Pipeline for a Microservices Application**

- I build a CI/CD pipeline for a microservices application for different deployment strategies. I define the scope of the project and select the right deployment strategy based on different business requirements.

Technology Skillset

AWS, Serverless, DevOps, Jenkins, Kubernetes, Linux, ServiceNow, SQL, Python, System Design, CI/CD:

Automation: Terraform, Ansible, Version Control: GIT, GITHub, Scripting: Shell Bash, Database Systems: RDS, Containerization: Docker, Performance Management, Build releases