New John Refuse

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DevOps Engineer with 3+ years of experience in solving the typical problems and deployment operations required in different environments and supporting development. Proficient in research and development, as well as skilled in Strong written and verbal communication skills, particularly in technical presentations and representing at industry or domain events. **Fluent in both English and French**

EXPERIENCE

MetaworldX — AWS Solutions Architect, Co-op

April 2023, Present

- Leading migration efforts for a large-scale project, involving extensive research and planning to ensure a smooth transition to the AWS cloud platform.
- Utilizing various AWS services such as AWS Elemental, S3, AWS SDK, and CloudFormation to optimize the migration process and ensure efficient management of resources.
- Collaborating with cross-functional teams to develop and implement migration strategies, and to ensure seamless integration with existing systems and workflows.
- Streamlining and automating various aspects of the migration process using AWS tools and services, such as AWS Migration Hub and AWS Database Migration Service.
- Constantly evaluating and optimizing the performance of the AWS infrastructure to ensure scalability, reliability, and cost-effectiveness.

Freelance —Cloud Engineer / Devops

2022 - 2023

- Stabilized the existing AWS cloud environment through regular security audits,patch management, and vulnerability assessments.
- Streamlined Incident management by integrating with 3rd party self-help tools for Ops and Developers such as JIRA,ServiceNow, and PagerDuty
- Background in automation, cloud computing, and continuous delivery
- Implement and maintain scalable, efficient systems for multiple projects.
- Played a key role in migrating our infrastructure to the cloud and implementing a continuous delivery pipeline.
- Identified inefficiencies and pain points by establishing and maintaining monitoring and alerting systems to ensure the reliability and performance of our services.
- Participated in the migration process and built our infrastructure to the cloud and implemented a microservices architecture successfully.
- Played a key role in the design and implementation of our continuous integration and delivery pipeline, resulting in a 50% reduction in deployment time.
- Proficient in a variety of tools and technologies including AWS, Docker, Kubernetes, Ansible, and Terraform.
- Experience with programming languages such as Python and Bash.
- Strong communicator and collaborator. I enjoy working with cross-functional teams and have a track record of effectively communicating technical concepts to both technical and non-technical stakeholders.
- Currently working on a fintech application where the full CI/CD is being implemented alongside Jenkins, docker to containerize the application and EKS for deployment

SKILLS

- **Cloud Orchestration/Automation:** Ansible, Terraform, Kubernetes, Docker,Puppet

- **Monitoring & Event Management:** AWS CloudWatch (Events & Logs), AWS SNS, AWS, S3,Splunk,ELK,Grafana,Prometheus

- **Identity & Access Management:** AWS Organization, AWS IAM, SailPoint, Active Directory, AWS Workspaces, AWS Secrets Manager,Okta

- **Governance & Compliance:** AWS Organizations, AWS Control Tower, AWS Trusted Advisor, AWS Well-Architected Tool, AWS Config

- **AWS Security:** Guard Duty, Macie, Security hub, Inspector, WAF, Shield, Security Groups, NACLS, KMS, IAM, SAST, DAST,PCI-DSS,NIST

- **Application Delivery:** Jira, Splunk, Slack,Github

- **Networking and Data Protection:** AWS KMS, Snapshot, Lifecycle Manager, Virtual Private Cloud (VPC), Public and Private subnets, Security Groups, Route Tables, Elastic Load balancer,NAT Gateway,VPN,Direct Connect

- **Storage/Database:** EBS, S3, EFS, NFS,RDS,Aurora,DynamoDB, Redshift,Elasticache

CERTIFICATIONS

AWS Certified Solutions Architect
AWS Certified Security – Specialty
AWS Certified SysOps Administrator

- Used AWS CodePipeline efficiently to provide a continuous delivery platform. Enabled developers to automate the build, test, and deployment of their applications.
- Used AWS Code Build to automate the building and testing of the code and can integrate it with other tools in the SDLC such as version control systems and testing frameworks.
- Used AWS Code Deploy to automate the deployment of applications to a variety of environments, including Amazon EC2, on-premises servers, and Lambda functions.
- Experience with incidents and event response. High availability, fault tolerance and DR

Freelance —DevOps

2021 - 2022

- Extensive knowledge in Kubernetes and integration in the CI/CD pipeline - Analyze, process and track requests for access to information systems.
- Recommended and managed transmission protection requirements for all environments (System, applications, Containers, etc.,.) such as VPC peering best practices, SSL certificate management, key pairs, etc.
- Configured WAF to protect applications from common web attacks and improved security through regular DAST scans.
- Conducted security assessments using Nessus to identify vulnerabilities and implement remediation measures
- Designed and deployed CI/CD pipelines using Jenkins and Git build, test, and deployment processes.
- Implemented AWS security measures, including IAM policies, VPC networking, and KMS encryption, to secure cloud infrastructure
- Participated on-call rotation to find bugs and fix issues
- Use blue/green deployments to minimize downtime and ensure seamless releases by simultaneously running two identical production environments and switching traffic between them.
- Conducted regular security assessments and incorporated security into the release process through code reviews and vulnerability scans
- Familiar with SLIs/SLOs/SLAs

PROJECTS

AEC

2022 - 2023

Project 1: Streamlined DevOps Automation for Software Dev Team
- Deployed Jenkins, Sonar, and Nexus servers using Terraform for streamlined configuration.
- Automated the software development process with a full CICD pipeline.
- Provided real-time updates and notifications through Slack integration.
- Utilized Terraform to provision applications, Git for code management and branching strategy, SonarQube for quality assurance and bug scanning, Nexus for artifact storage, Docker for containerization, EKS for orchestration, and Helm for simplified manifest writing.

Project 2: Automation of Security in CICD
- Implemented security measures into the CICD pipeline to ensure secure software delivery.
- Automated security scans and testing using tools such as OWASP ZAP, SAST, and DAST.
- Improved security posture through regular security assessments and risk management.

Project 3: Compromised Servers in AWS

CKA (Certified Kubernetes Admin)
Comptia Security+
Microsoft Certified: Azure Fundamentals
CompTIA PenTest+

LANGUAGES

English, French

Education

Western Governors University, USA – Software Engineering
2023 – 2025

Alberta Education Centre (AEC) , Canada – Cloud Engineering
2022 – 2023

REFERENCES

Upon request

- Conducted investigations and remediation on compromised servers in AWS.
- Implemented security controls and best practices to prevent future security incidents.
- Improved overall security posture and risk management through continuous monitoring and reporting.

Project 4: 3-Tier Architecture Design and Migration on AWS
- Designed a robust and scalable 3-tier architecture for a client's application on AWS.
- Participated in the migration process to the new architecture, ensuring seamless and efficient transition.
- Implemented best practices and optimized the infrastructure for performance and reliability within AWS.