SHAHBAZ ALAM

DevOps Engineer

INFO

👤 Shahbaz Alam

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Power Charge

- AWS
- Kubernetes
- Terraform
- Python
- SRE

Education

Bachelor of Engineering in Computer Science

Certifications

- Certified Kubernetes Application Developer
- Certified Kubernetes Administrator
- AWS Certified Solutions Architect
- Red-hat accredited IAAS Certificate by OPEN Program
- VMWare Certified Associate Cloud

Summary

Has good experience in managing and contributing to all aspects of cloud automation, including automated infrastructure provisioning, container and Kubernetes automation, complete product lifecycle along with security and operation. Applied best DevSecOps practices to manage microservices based services in cloud native environment.

Expertise

- Automate container-based services lifecycle in multi cloud Kubernetes environment.
- Leading DevOps team members to write CI/CD, operation and security automation in Kubernetes environment.
- Write terraform automations and libraries to perform software defined provisioning.
- Do cloud architecture with AWS, Azure, GCP based cloud services.
- Manage security and operation aspects of cloud services.
- Write serverless automation in cloud.
- Do cloud migration and application refactoring.

Key Skillsets

- AWS Cloud / Terraform Automation / Python Programming / Kuberenetes / Operator / Docker Container / Tekton /Jenkin DSL programming / AWS cloud formation / Git / Prometheus / Grafana /OpenStack /Hadoop / Elasticsearch
- Languages Known – Terraform, Python, Tekton DSL, Helm3, Jenkin DSL, Shell Script, Docker Build
- AWS Services – EC2, EKS, S3, ES, RDS, ALB, ELB, LAMBDA, SWF, CLOUD FORMATION, IAM, CloudWatch, Route53
- Prometheus

Experience

Synectiks Appkube Platform (June 2020-Till-Date)

Role - DevSecOps Lead

Technology Stack - (AWS, Kubernetes, Docker, Python , Terraform, Tekton, Jenkin-X, Lambda, Cloud Formation, Shell)

Activities Performed

- Worked on writing terraform modules to provision highly secure configurable Kubernetes cluster across cloud.
- Write terraform automations and libraries to perform software defined provisioning of AWS services.
- Worked on applying Kubernetes storage and network services to provision service delivery framework.
- Worked on Kubernetes Tekton CI/CD framework to do services CI/CD automation.
- Worked on Kubernetes operator framework to provision services in Kubernetes.
- Actively managed, improved, and monitor cloud infrastructure on AWS, EC2, ECS, S3, ES, RDS, LAMDA, ROUTE53, IAM including scaling and automation.
- Built Python Based Cli Automation scripts to implement compliance standards like CISP / PCI DSS / HIPPA for AWS continuous security audits.
- Worked on data collection frameworks for metrics / log / traces integration of services with operation.
- Built and deployed Infrastructure As Code using AWS cloud formation.
- Worked on logging operator for centralized logging and monitoring using BanziaCloud log operator and Loki.
- Worked on Kubernetes to orchestrate the deployment, scaling and management of Docker Containers.
- Worked on monitoring stack implementation based on Prometheus, Grafana, influx-DB for on-premises and cloud-based infrastructure.
- Worked with development teams to integrate the metric/logs/trace data into monitoring stack.
- Worked setting up the ELK stack for collecting, centralizing the logs.
- Worked on visualizing the clusters, infrastructure and service health using Grafana Prometheus, CloudWatch.
- Worked with cloud-based data-sources for visualizing of performance, availability and health for cloud native applications in grafana.
- Worked on deploying prometheus operator in k8 platform and configure complete monitoring stack.

Experience

Argus Research- Cloud Migration and Modernization (Jan-2018- May 2020)

Role - Solution Architect

Technology Stack - (AWS, Kubernetes, Docker, Python, Terraform, Lambda, Cloud Formation, Shell)

Activities Performed

- Worked on cloud architectures and security framework for target migration system.
- Worked on solutioning, POC, automation of AWS infrastructure and services.
- Worked on the cloud formation automation to create NIST compliant AWS environment in AWS.
- Worked on computing and storage lifecycle automation script , automated certain runbooks with AWS lambda.
- Implemented the VPN and software firewall framework for AWS services.
- Implement Text to Voice Automation project.
- Worked on production support and customer interaction.
- Wrote terraform script to provision AWS kinesis for log streaming.
- Wrote automation for VDI framework.
- Wrote automation for S3 to glacier archival.

DXC(CSC) – (JUL 2012 - NOV 2017)

Role - DevOps Engineer

Technology Stack - (Openstack, Linux, Shell, Hadoop, Ansible)

Activities Performed

- Deployment and Support of OpenStack Cloud based on Linux RHEL.
- Automation of system Administration and Maintenance tasks using shell scripts.
- Deployment and maintenance of Linux Server systems to run Hadoop environment.
- Worked with cyber-Security team to remediate vulnerability and Security fixes.
- Worked on Web Servers and Application Servers like Apache, Tomcat.
- Production, QA, and Dev environment administration for business-critical applications.