K. U.

DevOps Engineer

5+ years of experience

Core competencies

I am passionate about helping development teams achieve seamless automation and continuous monitoring throughout the entire application lifecycle - from integration and testing to delivery and deployment. I have extensive expertise in Kubernetes, cloud architecture, and development. Proficient in scripting languages such as Python, Bash, and PowerShell. Always looking for ways to support my teammates and improve company performance. Team-oriented, conflict-resolving, stress-resistant, and skilled in critical thinking, I am dedicated to driving efficiency and collaboration within teams.

Technical capabilities

- Knowledge of cloud service providers (AWS/Azure/VMware).
- Proficiency in Infrastructure as Code (IaC) using Terraform.
- Container orchestration using Kubernetes, OpenShift, Helm, and Docker.
- Experience building CI/CD pipelines with GitHub Actions and Jenkins.
- Familiarity with version control platforms (GitHub, GitLab, Bitbucket).
- Linux administration skills, including RHEL, CentOS 7/8, and Ubuntu.
- Configuration management with Ansible.
- Monitoring tools expertise: CloudWatch, Datadog, Prometheus, Grafana, and Zabbix.
- Scripting knowledge in Python, Bash, and PowerShell.
- Database experience with SQL (PostgreSQL, MySQL) and NoSQL (ElasticSearch, MongoDB, Redis)

Education

Faculty of Information Technology, 2015
Arabaev University (Kyrgyzstan)

Selected Projects

Dayl Group - DevOps Engineer
May 2020 – Present

Role: DevOps Engineer
Technologies: Kubernetes, Ansible, Azure, GitLab CI, Docker, Docker Registry, Prometheus, Grafana, Bash

Description:

- Infrastructure Automation in AWS (EKS, ECS, RDS) and Google Cloud (GCP networking, GKE cluster, Cloud SQL) using IaC tools like Terraform and CloudFormation.
- Wrote clear and detailed documentation for custom Terraform modules in README files and on Confluence pages.
- Created a continuous deployment pipeline for deploying static applications to AWS S3 using GitHub Actions.
- Developed flexible, reusable Terraform configuration modules for development, QA, staging, and production environments across various organizations.
- Designed and implemented network architecture for applications, including VPC services and VPN or Bastion servers, using Terraform, and integrated Infracost to visualize resource expenses in IaC.
- Modified Bash scripts to automate the upload of SSH keys to the Bastion instance from an S3 bucket.
- Synchronized Amazon Redshift with Snowflake using AWS Glue.
- Deployed high-availability and fault-tolerant Kubernetes infrastructure on GKE using Terraform.
- Configured Jenkins for automated application deployments across multiple environments, including development, staging, and production.
- Worked with AWS services like Databrew and Amazon AppFlow for enhanced automation and integration.
- Migrated Terraform state files to Terraform Cloud and updated resource references for remote data sources.
- Updated versions of EKS and GKE clusters for better performance and compatibility.
- Deployed microservices applications in Kubernetes clusters using Helm charts.
- Collaborated with CDN providers such as CloudFront and Cloudflare, ensuring low-latency web page performance using CloudFront.
- Designed backend architecture and developed Python code in AWS Lambda to create items in DynamoDB tables.

Kaz Minerals (Senior System Administrator)
April 2016 – May 2020

Role: DevOps Engineer

Description:

Hands-on Experience with AWS Cloud Infrastructure:

- Proficient in AWS services such as EC2, IAM, VPC, S3, RDS, Route 53, CloudWatch, SNS, CloudTrail, and Glacier, including configuration of RDS and DynamoDB.
- Dockerized applications to break down monolithic architectures into microservices. Created a CI/CD pipeline to build, test, and push Docker images to ECR. Deployed and managed these containers on AWS ECS.
- Wrote configuration management scripts using Ansible to automate system component updates and install required packages on instances.
- Restored necessary data from Glacier storage class to standard S3 using a Python script.
- Experienced in troubleshooting and resolving conflicts in version control systems like Bitbucket, GitLab, and GitHub.
- Merged and migrated resources between Terraform state files.
- Configured a periodic summary email from AWS Security Hub using CloudFormation and Terraform. Implemented a weekly EventBridge trigger to launch a Lambda function that collects all insights data and sends email notifications via SNS.
- Developed AWS ECR repository modules and a multi-bucket S3 module using Terraform.
- Automated repetitive tasks with Python and Bash scripts.
- Created Terraform modules from multiple configuration files for imported resources and implemented a GitLab CI pipeline to automate the Terraform workflow.