Pavel Karaliou

AWS and K8S Certified DevOps Engineer

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Professional Summary

AWS and Kubernetes Certified DevOps Engineer with a solid 5 years experience in architecting and deploying cloud systems for applications using AWS, Kubernetes, and CI/CD. Advanced skills in Terraform, Git, Docker, GitHub actions, Ansible, Jira, Kibana, Prometheus, and Grafana. Hands-on experience building and managing scaliable, fault-tolerant cloud infrastructures with 99.99% uptime using EKS cluster, Elastic Load Balancer.

Work Experience

Zeta Global   **Nashville, TN**
DevOps Engineer   *Nov 2020 - Present*
- Designed a reliable and highly available EKS cluster on AWS using Terraform for several development project teams, with a range of 10-150 worker nodes.
- Implemented an autoscaling solution for the EKS cluster to handle spikes in traffic, using cluster autoscaling for nodes and horizontal pod autoscaler for application deployments.
- Configured an autoscaling group with self-managed nodes, with a mix of spot and on-demand instances. This increased reliability of the EKS cluster and reduced EC2 instance utilization cost by 34%.
- Used Helm in the CI/CD pipeline to streamline deployment and manage Kubernetes applications efficiently.
- Set up monitoring tools for the Kubernetes cluster, configured Prometheus and Grafana to collect and store metrics. Implemented auto-announcement to the Slack channel for downtime occurrences for worker nodes. This improved resource visibility and maintenance of the EKS cluster.
- Deployed a Node.js-based application across development, staging and production environment using a CI/CD tool with Bash logic.
- Configured GitHub Actions as a CI/CD pipeline for multi-cloud infrastructure to automate deployments, meeting company needs.
- Implemented EFK stack logging solution for the cluster, which increases troubleshooting and debugging capabilities.

Centro   **Chicago, IL**
DevOps Engineer   *Jun 2019 - Oct 2020*
- Supported migration of monolithic applications to microservices by packaging applications with Dockerfiles, setting up image repositories on ECR, creating Kubernetes clusters for deploying containers with Deployments, Services, Cronjobs, DaemonSets, StatefulSets.
- Developed CI/CD pipelines for both frontend and backend of Java and Python-based applications using Jenkinsfile and Makefiles, which reduced the duration of deployment process over 55%.
- Automated the creation of AWS resources with the IaC tool Terraform, resulting in more efficient deployment of the infrastructure and enabling consistency across different environments.
- Utilized Packer and Terraform to deploy a Node.js-based application to an EC2-backend host.
- Used Ansible as a configuration management tool to automate repetitive tasks and manage changes, resulting in an increase in infrastructure management efficiency.
- Proactively managed and maintained the infrastructure to support efficient CI/CD pipelines in different environments.

Uptake   **Chicago, IL**
Junior DevOps Infrastructure Engineer   *May 2018 - May 2019*
- Configured and managed AWS resources, including IAM, VPC, EC2, Security Groups, CloudWatch, Route53, S3, RDS, and other MySQL and NoSQL databases.

- Focused on high availability, fault-tolerance, and auto-scaling.
- Implemented a cost-effective S3 storage strategy using S3 buckets, bucket policies, and S3 Glacier. This resulted in a 28% reduction in annual S3 storage costs.
- Automated the creation of IAM Roles and Policies across several accounts using Terraform best practices.
- Developed Terraform modules to automate the creation of RDS databases in a multi-stage environment.

Skills

Cloud Provider:
AWS (VPC, EC2, EBS, EFS, Route53, CloudFront, S3, SNS, SQS, Lambda)

Infrastructure as Code:
Terraform, CloudFormation

Containerization & Orchestration:
Docker, Kubernetes, AWS EKS

Logging:
Elasticsearch, Fluentd, Kibana

Monitoring:
Prometheus, Grafana, AWS CloudWatch, Datadog

Automation:
Jenkins, GitHub Actions

Configuration Management
Ansible, Helm, Vault

Scripting & Coding:
Bash, Python

Management Frameworks:
Kanban, Scrum, Trello, Jira

Operating Systems:
Linux, Ubuntu, RedHat, CentOS

Networking:
TCP, UDP, VPN

Soft Skills:
Communication, Team Collaboration, Adaptability, Reliability, Problem-solving

Education

Belarusian National Technical University   2011
    -Bachelor of Science in Electro-Mechanical Engineering

Certification

AWS Certified Solutions Architect - Associate   2023
CKAD: Certified Kubernetes Application Developer   2023
CKA: Certified Kubernetes Administrator   2023
HashiCorp: Terraform Associate (003)   2024