Hamza Khan

Cloud DevOps Engineer

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PROFILE

Experienced Linux Administrator with 1 year of experience in infrastructure automation and containerization. Possess an AWS Certified Solutions Architect Associate certification and a strong foundation in cloud computing, DevOps principles, and configuration management. Proven ability to manage Linux systems, configure storage solutions, and implement CI/CD pipelines. Eager to support expertise in a collaborative and high-performing team environment.

PROFESSIONAL EXPERIENCE

Cloud DevOps Engineer, *PufferSoft Pvt Ltd*   Nov 2023 – present
- Utilized a range of AWS services like SES, Elastic Beanstalk, API Gateway, CloudWatch, CodePipeline, Lambda, Route53 and AWS Systems Manager to build and manage cloud infrastructure solutions.
- Deeply explored **Infrastructure-as-Code**, like Terraform, that significantly enhanced my proficiency Infrastructue management.
- Worked with Python developers to configure code integration and automate the deployment processes to enhance their efficiency.

Linux Engineer, *AntonX Pvt Ltd*   May 2023 – Nov 2023
- Led the successful migration of a monolithic application to a **Kubernetes Cluster** improving scalability and operational efficiency.
- Partnered developers to setup development and production environment for **3-tier applications**, using Git, GitHub and Docker.
- Utilized AWS services like EC2, IAM, VPC, S3, RDS, DynamoDB, SNS, CloudWatch and NAT Gateways to design and implement robust and secure network architectures.
- Contributed to the recruitment process by actively participating as part of the interview team for hiring new DevOps Interns, which enhanced my communication and interpersonal skills.

SKILLS

Linux Administration — *Installation, Configuration, Troubleshooting, Disks Management using LVM*, **AWS** — *EKS, ECS Fargate, Route53, System Manager, Cloudwatch, IAM*, **CI/CD** — *Jenkins, CodePipeline, GitHub Actions*, **Web Server** — *Apache, Nginx*, **Databases** — *MySql, SQL, MongoDB, DynamoDB*, **Version Control** — *Git with Github and Gitlab*, **Coding and Scripting** — *Python, Bash*, **Monitoring Tools** — *Prometheus, Grafanna*, **IaC** — *Terraform, CFN, Ansible*, **Containerization** — *Docker, Kubernetes*, **Networking** — *Load Balancing, Subneting, CIDR Blocks*

PROJECTS

Monolithic to Kubernetes Migration on Huawei Cloud,   Oct 2023 – Dec 2023
Enabling Scalability and Agility ✐
- Deployed applications using YAML manifests for deployments, services, cronjobs, stateful sets, and Horizontal Pod Autoscalers.
- Ensured efficient **service discovery and load balancing** through service manifests and Ingress resources.
- Implemented automated scaling strategies with HPA for dynamic workload management as well as node level autoscaling.
- Utilized Prometheus and Grafana (managed add-ons) to monitor application health, resource utilization, and performance metrics.

Deploy Python Application and Setup CICD Pipeline in AWS Cloud,   Dec 2023 – Feb 2024
Ensuring Reliable Delivery with AWS CodePipeline ✐
- Addressing client's concerns with manual deployments and management, implemented solution using **Elastic Beanstalk** and CICD
- Automating the deployment process using CodePipeline, enhancing developers efficeincy and reducing time to production by 35%.
- Provided **Terraform code** for whole infrastructure including API Gateway & CodePipeline to empower them with automation.

CERTIFICATES

- AWS Certified Solutions Architect Associate SAA-CO3 ✐
- Huawei Cloud Certified Developer Associate (HCCDA)
- Docker and Kubernetes: The Practical Guide, Academind ✐

COURSES

AWS SysOps Administrator Associate Course SOA-CO2, *Stephane Maarek* ✐	Jan 2024 – Mar 2024
"Introduction to Linux" by Linux Foundation, *The Linux Foundation* [EDX]	Jan 2023 – Apr 2023
Terraform Training Course by Vijin Palazhi, *KodeKloud* ✐	Nov 2023 – Dec 2023
Artificial Intelligence (Deep Learning/Machine Learning), *Uet Peshawar* [NAVTTC]	Jul 2021 – Jan 2022

EDUCATION

Bachelor of Science in Computer Science, *University of Peshawar*   2020 – 2024 | CGPA: 3.84