

# Usman Saleem

Senior DevOps Engineer | AWS Certified DevOps Engineer | Kubernetes

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## SUMMARY

I am a Senior DevOps Engineer at Code UpScale with nearly 10 years of IT experience. I specialize in providing reliable and secure IT solutions, with expertise in platforms like Linux, Bash, Docker, Kubernetes, Ansible, Terraform, Jenkins, AWS, GitHub, ELK, Grafana, Prometheus, WSO2 and GitLab/GitHub. I hold multiple certifications, including from Cisco Networking Academy and AWS (Certified DevOps Engineer), and have a strong interest in cybersecurity. I thrive in dynamic environments and am actively seeking new DevOps opportunities.

## EXPERIENCE

Senior DevOps Engineer   Code UpScale	November 2024 to Present
<ul style="list-style-type: none"><li>Currently working on auto deployment of multiple projects through Jenkins and GitHub Actions.</li><li>Expertly utilizing and handling the AWS services as per project requirement.</li><li>Actively involved with the migration of NodeJs application to EKS for container orchestration, using ECR as a image registry, Docker for containerization.</li><li>Deploying multiple DBs of AWS e.g. DynamoDB, Aurora, RDS, MariaDB, IBM Db2, Oracle and DocumentDB.</li><li>Automating the the crucial tasks through Lambda e.g. using python as a language, I used to create snapshots or AMI of EC2 and delete the prvious ones.</li><li>Successfully migrated the NodeJs application to AWS ECS and EKS, using ECR as a image registry, Docker for containerization.</li><li>Deploying Front End applications on AWS Amplify.</li><li>Actively working on CodePipeline, CodeCommit, CodeDeploy and CodeBuild to automate the existing project thourhg AWS managed services.</li><li>Actively working on Azure AKS to migrate the existing projects on Azure Kuberenetes through ACR.</li><li>Actively working on Azure Container Instances to run multiple micro apps through ACR.</li><li>Deployment of multiple Databases e.g. Azure SQL, Azure SQL Hyperscale, MySQL, PostgreSQL, Azure Cosmos DB, Oracle and Apache Cassandra.</li><li>Automating the the important tasks through Azure Functions e.g. implementing a set of REST endpoints for web applications using HTTP triggers.</li><li>Deploying Front End applications on Azure App Service.</li><li>Activley working on multiple services of GCP, e.g. Compute Engines, GKE, GCR.</li><li>Migrating the existing microservices applications on GKE for better performance using GCR.</li><li>Actively working on Google Cloud Run to run multiple micro apps through GCR.</li><li>Automating the the crucial tasks through Google Cloud Functions e.g. sending the notifications using SendGrid and automating scheduled tasks.</li><li>Deploying Front End applications on Google App Engine.</li><li>Deploying multiple Databases of GCP.</li><li>Optimizing billing of all platforms AWS, Azure and GCP.</li></ul>	
Senior DevOps Engineer   AXA/JazzCash	May 2024 to October 2024
<ul style="list-style-type: none"><li>Currently spearheading the management and optimization of Kubernetes and OpenShift environments, ensuring scalable and resilient container orchestration.</li><li>Expertly utilizing Ansible for comprehensive configuration management and automation across various systems and environments.</li><li>Actively involved with WSO2 API Manager (APIM) and WSO2 Micro Integrator (MI) to streamline API management, integration, and service orchestration.</li><li>Operating within Linux environments, handling system configurations, performance tuning, and troubleshooting to maintain a stable and efficient infrastructure.</li><li>Implementing secure server access strategies through Bastion and Jump servers, enhancing network security and connectivity.</li><li>Leveraging a suite of advanced monitoring tools to ensure comprehensive system observability, including:</li><li>ELK Stack: Elasticsearch for data indexing and search, Logstash for data processing, Kibana for visualization, and Filebeat for log shipping.</li><li>Prometheus for robust metric collection and monitoring, Grafana for dynamic visualization, and Loki for effective log aggregation and analysis.</li><li>Managing and optimizing Nginx configurations to deliver high-performance web services and applications.</li><li>Utilizing Git and GitHub for version control, code management, and collaborative development, with hands-on experience in setting up and managing CI/CD pipelines using GitHub Actions.</li></ul>	
Senior DevOps Engineer   10Pearls	December 2020 to May 2024
<ul style="list-style-type: none"><li>Collaborated closely with clients on Kubernetes-related projects, including managing master components (e.g., kube-scheduler, etcd-cluster, controller-manager).</li><li>Proficient in creating and managing Kubernetes nodes and pods, and crafting deployment manifests in YAML.</li><li>Performed basic Kubernetes troubleshooting and integrated Docker container engine with Kubernetes for orchestration.</li><li>Experienced in advanced Linux administration and CLI operations, including using WSL on Windows.</li><li>Hands-on experience with Docker, including container creation, image management, and Docker Hub integration.</li><li>Skilled in Terraform for Infrastructure as Code (IaC), including creating .tf playbooks and deploying across multiple clouds.</li></ul>	
Application Support Engineer   Zong	November 2016 to December 2020
<ul style="list-style-type: none"><li>Troubleshoot and resolved IT issues within TAT; installed and shared printers.</li><li>Configured CSP and managed IT equipment, including Huawei cloud portals and CMPak's Active Directory.</li><li>Maintained domain, thin clients, and handled VM issues; managed inventory and Active Directory.</li><li>Maintained Java and Citrix, and handled Microsoft applications, including Outlook configuration.</li><li>Provided Level 2 support for Zong portals and managed Huawei Desktop@SingleCloud, including report generation and call center portal management.</li></ul>	

- Conducted Windows, LAN, and OS troubleshooting; managed software and hardware installations, including various Microsoft products.
- Installed and troubleshot Eclipse, Polygon Video Con, and VMWare Workstation; handled Active Directory and Level 1 support tasks.
- Utilized a ticket-based system for issue resolution and inventory management.
- Installed and troubleshot HP QTP, HP QC, Test Complete, MS SQL, MS Visual Studio, and MS SilverLight.
- Managed and maintained Windows Deployment Services (WDS) on Windows Server 2016.

SKILLS

- **Kubernetes/OpenShift:** Proficient in managing K8s Infrastructure. Working with the Microservice environment.
- **Docker:** Working with containerized environment. Understanding of Docker Compose and Docker Hub(Image Registry).
- **Jenkins:** CI/CD, creating pipeline to automate the deployments in Jenkins.
- **Ansible:** Automating the Configuration management using Ansible.
- **ELK/Grafana/Prometheus:** O11s using Elastic, LogStash, Kibana, Grafana, Prometheus and Loki.
- **Terraform:** Deployment of infrastructure using Terraform on multicloud.
- **WSO2:** Actively managing APIs with WSO2 APIM and MI
- **Linux:** Strong grip on Linux environment.
- **AWS:** Working on Multiple services of AWS e.g. EKS, ECS, CodeCommit, EC2, S3, Route53, VPC.
- **Python/Bash Scripting:** Understanding of creating scripting using python and Bash Scripting
- **CI/CD platforms:** ArgoCD, GitHub Actions, GitLab CI.

CERTIFICATIONS

- **AWS Certified Cloud Practitioner - (AWS)**
- **AWS Certified Solutions Architect - Associate (SAA-C03) – (AWS training and certification)**
- **AWS Certified DevOps Engineer – Professional - (AWS training and certification)**
- **AWS Certified Solutions Architect - Associate (SAA-C03) – (Udemy)**
- **Kubernetes Advance – (10Pearls University)**

EDUCATION

Virtual University	Master of Business Studies (MBS)
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Projects

Project Name	URL
Kubernetes: Deployed the Todo app on Docker Container using K8s pods.	<a href="https://tinyurl.com/bdctskr7">https://tinyurl.com/bdctskr7</a>
Terraform: Created a ec2 instance on AWS while creating a Terraform playbook.	<a href="https://tinyurl.com/p7hv49yb">https://tinyurl.com/p7hv49yb</a>
Docker: Created a Docker container/images.	<a href="https://tinyurl.com/bdcafx9c">https://tinyurl.com/bdcafx9c</a>
WSO2: Deployment of WSO2 APIM, MI, Integration Studio	<a href="https://tinyurl.com/43jwjsu7">https://tinyurl.com/43jwjsu7</a>
Jenkins: Deployed Jenkins on Ubuntu	<a href="https://tinyurl.com/yc6vekjw">https://tinyurl.com/yc6vekjw</a>
ELK Stack: Deploying the ELK Stack with Filebeat on Ubuntu	<a href="https://tinyurl.com/5fp9xjy4">https://tinyurl.com/5fp9xjy4</a>
Grafana/Prometheus: Deploying Grafana, Prometheus, and Loki Integration	<a href="https://tinyurl.com/mr2axm5j">https://tinyurl.com/mr2axm5j</a>
Local Image Registry K8s: Deploying Local Image Registry with Kubernetes	<a href="https://tinyurl.com/yeb4d59n">https://tinyurl.com/yeb4d59n</a>
GitHub Actions: Deployed a static site on AWS S3 using GitHub Actions	<a href="https://tinyurl.com/j3bx5as7">https://tinyurl.com/j3bx5as7</a>
KubeSpray: Deploying a Kubernetes Cluster with Kubespray, Terraform, and Ansible on AWS	<a href="https://tinyurl.com/3d4ewcep">https://tinyurl.com/3d4ewcep</a>
NodeJS App using Jenkins Pipeline: Dockerized NodeJS app through Jenkins pipeline.	<a href="https://tinyurl.com/3w9j2kuy">https://tinyurl.com/3w9j2kuy</a>
Linux Systemd: Creating a custom systemd service on Ubuntu for monitor and clearing memory cache.	<a href="https://tinyurl.com/mrxyzrax">https://tinyurl.com/mrxyzrax</a>
For more recent projects please visit my linkedin <a href="https://www.linkedin.com/in/usmangd">https://www.linkedin.com/in/usmangd</a>	