

ANNAS ALI

Senior DevOps Engineer | AWS Certified Professional

DevOps Engineer with 5+ years automating cloud and hybrid infrastructure. Expertise in AWS, Terraform, Kubernetes and CI/CD, with hands-on Proxmox virtualization, Active Directory, WatchGuard firewalls, site-to-site/DR VPN and Cloudflare Zero Trust (WARP).

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EXPERIENCE

DevOps Engineer

Emumba

📅 12/2025 – Present

📍 Remote

- Own the delivery platform for a 35+ microservice enterprise AI system, governing application lifecycle across **50+ AWS EKS clusters** through an **ArgoCD ApplicationSet** GitOps control plane with per-cluster configuration isolation and controlled override patterns for incident response.
- Drove **shift-left practices** by authoring Helm chart templates as a golden path for service teams, with a per-environment override model via GitOps config repositories.
- Established **GitHub Actions** pre-merge quality gates, surfacing integration failures before they reach cluster environments.
- Architected a **dual-region (GDC/RDC) deployment topology** with regional ApplicationSets, authenticated gRPC ingress for cross-cluster traffic and network-level egress controls.
- Codified **Jenkins delivery pipelines** (deploy/upgrade/destroy) with regional parameterization, replacing ad-hoc run-books with version-controlled pipeline code.
- Designed centralized secret management using **HashiCorp Vault** with ArgoCD Vault Plugin, enforcing per-cluster secret isolation with zero credentials in source control.

Senior DevOps Engineer

TCP Software

📅 09/2023 – 12/2025

📍 Lahore

- Automated infrastructure and application delivery using Terraform, Jenkins, and AWS CodeBuild.
- Implemented Blue/Green deployment strategies on AWS for risk-free application updates.
- Streamlined containerized deployments on Amazon ECS to improve scalability and management.
- Optimized CI/CD performance by 40% through a Jenkins controller/agent architecture on EC2 and Fargate.
- Monitored application and infrastructure performance with New Relic to resolve critical issues.
- Optimized MSSQL (RDS/EC2) health through automated backups, indexing strategies, and partitioning.

DevOps Engineer

TkXel

📅 07/2021 – 08/2023

📍 Lahore

- Managed AWS services (EC2, S3, RDS, DynamoDB, Lambda) and containerized Node, Next.js, Angular, Flask, PHP and Laravel applications with Docker.
- Implemented Terraform IaC for multi-region deployments and environment migrations.
- Designed CI/CD pipelines using Jenkins, GitHub Actions, GitLab CI/CD, and AWS CodePipeline.
- Managed Kubernetes clusters and standardized add-ons (Datadog, ALB Controller, Autoscaler) with Helm; implemented GitOps with ArgoCD and Terraform Cloud.
- Managed MySQL, PostgreSQL and DynamoDB databases, including user management, migrations and multi-region replicas.
- Configured monitoring and alerting with CloudWatch, Datadog, New Relic and Opsgenie.

PROJECTS

Hybrid On-Prem Infrastructure & Secure Remote Access Lab

Proxmox · **Active Directory** · **WatchGuard** · **IPsec VPN** · **Cloudflare Zero Trust**

- Built a **Proxmox VE** cluster with ZFS storage, cloud-init VM templates and scheduled backups to **Proxmox Backup Server**; provisioned VMs with Terraform and configured them with Ansible.
 - Deployed **Active Directory** on Windows Server (two domain controllers, DNS, DHCP, OUs, GPOs, security groups) and joined Linux hosts to the domain with realmd/SSSD.
 - Configured a **WatchGuard Firebox** as perimeter firewall: VLAN segmentation, NAT and firewall policies, and Mobile VPN (IKEv2) authenticated against AD via RADIUS/NPS.
 - Established **site-to-site IPsec VPN** (WatchGuard BOVPN) from on-prem to an AWS VPC, plus a **DR tunnel** to a secondary region with automatic failover; documented and tested the failover runbook.
 - Replaced legacy client VPN for internal apps with **Cloudflare Zero Trust: WARP** client enrollment, Cloudflare Tunnel (cloudflared) with no inbound ports, identity-based Access policies via Okta, and Gateway DNS filtering.
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Kubernetes Infrastructure Deployment Standardization

EKS · **Terraform** · **Helm** · **Argo CD** · **Istio**

- Provisioned Amazon EKS clusters with Terraform and standardized application delivery with Helm and Argo CD.
 - Integrated Pod/Node autoscalers and Istio service mesh for scaling, security policy and observability.
 - Integrated Datadog, ELK Stack and StackRox for logging, monitoring and security.
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Cross-Account AWS Glue Data Pipeline

Terraform · **S3** · **AWS Glue** · **IAM**

- Deployed a secure cross-account data pipeline with Terraform, using S3 (Parquet), Glue Crawlers and Glue ETL jobs.
 - Enforced least-privilege cross-account IAM policies for access control and compliance.
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Serverless Jenkins on AWS Fargate

Jenkins · **ECS Fargate** · **Terraform** · **CloudWatch**

- Deployed Jenkins on ECS Fargate with Terraform and Docker-based build agents via the ECS Fargate plugin, eliminating server management.
 - Added Route 53, CloudTrail, CloudWatch, SNS and AWS Backup for monitoring and disaster recovery.
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Temporary Elevated Access Management (AWS TEAM)

Okta · **IAM Identity Center** · **CloudTrail**

- Integrated Okta with AWS IAM Identity Center and defined granular permission sets across accounts.
- Automated request/approve/revoke workflows for time-bound elevated access with MFA enforcement.
- Audited access sessions with CloudTrail and CloudWatch for security monitoring and compliance.

SKILLS

Cloud (AWS)	EC2, S3, RDS, DynamoDB, Lambda, API Gateway, SNS, SQS, Glue, EKS, ECS
On-Prem & Virtualization	Proxmox VE, Proxmox Backup Server, ZFS, Windows Server, Linux
Identity & Access	Active Directory (AD DS, DNS, GPO), RADIUS/NPS, IAM Identity Center, Okta
Networking & VPN	DNS, VLANs, AWS VPC, Load Balancers, Transit Gateway, VPC Peering, IPsec Site-to-Site & DR VPN
Firewall & Zero Trust	WatchGuard Firebox (BOVPN, Mobile VPN), Cloudflare Zero Trust (WARP, Tunnel, Access, Gateway)
Containers & GitOps	Docker, Kubernetes, Helm, Argo CD, ApplicationSets
CI/CD	Jenkins, GitHub Actions, GitLab CI/CD, AWS CodePipeline, Bitbucket Pipelines
IaC & Scripting	Terraform, Terraform Cloud, CloudFormation, Ansible, Python, Bash, PowerShell
Monitoring	Datadog, New Relic, CloudWatch, ELK, Opsgenie, Splunk On-Call
Security & Secrets	HashiCorp Vault, AWS WAF, IAM, GuardDuty, KMS, Secrets Manager, Orca
Databases & Web	MSSQL, MySQL, PostgreSQL, DynamoDB, Redshift, Nginx, Apache, IIS
DNS Hosting	Route 53, Cloudflare, GoDaddy

CERTIFICATIONS



**AWS Certified DevOps
Engineer – Professional**
25-Feb-2024 to 25-Feb-2027
[Validation URL](#)



Certified Kubernetes Administrator (CKA)
09-July-2023 to 09-July-2026
[Validation URL](#)



HashiCorp Certified: Terraform Associate
Validation URL

EDUCATION

B.Sc. in Computer Engineering
Ghulam Ishaq Khan Institute (GIKI)
09/2017 – 05/2021

LANGUAGES

English
Urdu

