

Deepak Inugala

Senior Cloud Engineer | Microsoft Azure | Multi-Cloud Architecture | Kubernetes | DevOps | AI Infrastructure

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AZ-104 & AZ-305 Azure Dual-Certified	10+ yrs Cloud & Infrastructure	Multi-Cloud Azure, AWS, G42, Huawei	6 Countries International Delivery	50+ Workloads Azure Production Services	99.99% Platform Uptime
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PROFESSIONAL SUMMARY

Senior Cloud Engineer with 10+ years of experience designing, deploying, and operating enterprise cloud infrastructure with a primary focus on Microsoft Azure. Dual Azure-certified (AZ-104 Administrator Associate and AZ-305 Solutions Architect Expert) with deep hands-on expertise spanning Azure compute, networking, storage, identity, security, monitoring, and governance. Proven track record delivering mission-critical cloud platforms at Group 42 (G42) managing 50+ production workloads across Azure, AWS, G42 sovereign cloud, and Huawei Cloud at 99.99% uptime. Specialist in AKS, Azure security architecture (Defender for Cloud, Sentinel, Key Vault, Zero-Trust), Terraform IaC, and CI/CD automation. Extensive international cloud delivery experience commissioned Azure and multi-cloud environments on-site in Kazakhstan, Angola, Bahrain, and UAE, and remotely for Maldives and Ethiopia, across GOVINT, OSINT, and Smart Nation government verticals.

TECHNICAL SKILLS

Azure Compute	Virtual Machines (Windows & Linux), VM Scale Sets (VMSS), Azure Kubernetes Service (AKS), Azure Container Instances, Azure Batch, App Service, Azure Functions, Azure Container Registry (ACR), Azure Compute Gallery
Azure Networking	Virtual Networks (VNet), NSG, Azure Firewall, Application Gateway (WAF), Load Balancer, Front Door, ExpressRoute, VPN Gateway (S2S/P2S), Private Endpoints, Private Link, Azure DNS, Traffic Manager, Network Watcher
Azure Storage & DB	Azure Blob Storage, Azure Files, Managed Disks, Data Lake Storage Gen2, Azure SQL Database, Azure Database for PostgreSQL/MySQL, Cosmos DB, Azure Cache for Redis, Azure Synapse Analytics
Azure Identity & IAM	Azure Entra ID (AAD), RBAC (built-in & custom roles), Managed Identities (system & user-assigned), App Registrations, Service Principals, Conditional Access Policies, Privileged Identity Management (PIM), B2B/B2C
Azure Security	Microsoft Defender for Cloud (CSPM, workload protection plans), Microsoft Sentinel (SIEM/SOAR — data connectors, KQL analytics rules, automation playbooks), Azure Key Vault (secrets, keys, certs, CSI driver), DDoS Protection Standard, Entra ID Protection, Palo Alto Firewalls, Zero-Trust
Azure Monitoring	Azure Monitor (metrics, log alerts, action groups), Log Analytics Workspace (KQL), Application Insights, Azure Workbooks, Network Watcher, Activity Log, Azure Advisor, Cost Management & Budgets, Power BI integration
AKS & Containers	AKS (private clusters, Azure CNI / Overlay, node pools, cluster autoscaler, Workload Identity, Key Vault CSI driver, AGIC, Defender for Containers), Helm, ArgoCD, Kustomize, Docker, Containerd, Harbor, ACR
IaC & DevOps	Terraform (azurerms provider — modular, state in Azure Blob), Ansible, Azure DevOps (Pipelines, Repos, Artifacts), GitLab CI/CD, GitOps (ArgoCD, Flux), ARM Templates, Bicep, Python, Bash, PowerShell
Governance & Compliance	Azure Policy (built-in & custom definitions), Management Groups, Blueprints, Resource Locks, Tag governance, Regulatory Compliance (ISO 27001, UAE IA, CIS Benchmark), Azure Resource Graph, Cost allocation & chargeback
Multi-Cloud & AI	AWS (EC2, EKS, S3, RDS, Lambda, VPC, IAM, CloudWatch, CloudTrail), G42 Cloud, Huawei Cloud, OpenStack; GPU cluster management (H100/H200), DCGM, vLLM, Kubeflow Pipelines, MLflow, Argo Workflows

WORK EXPERIENCE

Senior Cloud Engineer | SRE | DevOps | Group 42 (G42)

07/2019 – Present | Abu Dhabi, UAE | On-Site: Kazakhstan, Angola, Bahrain | Remote: Maldives, Ethiopia

International Cloud Delivery — On-Site & Remote (6 Countries)

- Planned, provisioned, and commissioned Azure and hybrid cloud environments on-site at client locations across Kazakhstan, Angola, and Bahrain sole cloud engineering authority responsible for Azure subscription setup, VNet architecture, security implementation, monitoring configuration, and go-live validation; additionally delivered the same scope remotely for Maldives and Ethiopia via secure VPN, coordinating with local IT teams across time zones.
- Designed and deployed consistent Azure cloud landing zones at each client site established Management Group hierarchy, subscription-level Azure Policy assignments, RBAC governance, VNet peering topologies, VPN Gateway / ExpressRoute hybrid connectivity, and budget alerts; produced environment-specific runbooks and handed over fully operationalized platforms with SLA documentation.
- Led client Azure onboarding and technical training facilitated hands-on platform workshops for client IT teams across all 6 countries covering Azure administration, monitoring with Log Analytics/KQL, security posture review via Defender for Cloud, and day-2 operational procedures: also managed GOVINT, OSINT, and Smart Nation business vertical cloud requirements simultaneously.

Azure Architecture & Compute

- Designed and delivered Azure cloud landing zones following Microsoft CAF principles defined Management Group hierarchy, subscription topology, Azure Policy initiative assignments (ISO 27001, CIS Benchmark mappings), tag governance (deny policy for missing tags), and RBAC role assignments across all environments; maintained Defender for Cloud Secure Score above 80% across all subscriptions.
- Provisioned and managed Azure Virtual Machines (Windows Server 2019/2022, Ubuntu 22.04, RHEL 8/9) and VM Scale Sets (VMSS) with custom autoscale rules; managed VM images via Azure Compute Gallery for standardized OS baselines; implemented Azure Update Manager for automated patch scheduling aligned to maintenance windows.
- Architected and operated Azure Kubernetes Service (AKS) clusters for production AI/ML and microservice workloads — configured private AKS clusters with private API endpoints, Azure CNI Overlay networking, system and user node pools with cluster autoscaler, Workload Identity for pod-level Azure RBAC, Key Vault CSI driver for secret injection, AGIC for Application Gateway ingress, and Defender for Containers for runtime threat detection.

Azure Networking — VNet Design, Connectivity & Security

- Designed hub-and-spoke Azure Virtual Network topologies across production, staging, and dev environments — configured VNet peering, User-Defined Routes (UDR) forcing traffic through Azure Firewall in the hub, NSG rules with flow logging to Log Analytics, and Network Watcher for connection troubleshooting and packet capture.
- Implemented Azure VPN Gateway (S2S IPsec/IKEv2) for on-premises-to-Azure connectivity at international client data centers, and Azure ExpressRoute for dedicated private connectivity to G42 infrastructure — managed BGP route filtering, configured Active-Active VPN gateways for HA, and implemented failover between ExpressRoute and VPN backup paths.
- Deployed Azure Application Gateway with WAF v2 (OWASP 3.2 ruleset) in front of AKS workloads — configured path-based and host-based routing, SSL termination with Key Vault certificate integration, custom WAF exclusion rules, and diagnostic logs to Log Analytics for threat analysis and compliance reporting.
- Implemented Private Endpoints and Azure Private Link for all PaaS services (Azure SQL, PostgreSQL, Blob Storage, Key Vault, ACR) eliminating public internet exposure; managed Private DNS Zones linked to hub VNet for unified private endpoint name resolution across hub-and-spoke topology.

Azure Identity, Security & Compliance

- Designed Azure Entra ID governance — implemented Conditional Access policies enforcing MFA and compliant-device requirements for all administrative roles; managed Privileged Identity Management (PIM) for just-in-time elevation with approval workflows, access reviews, and audit trails; managed App Registrations and Service Principal lifecycle with automated secret rotation via Key Vault.
- Deployed and operated Microsoft Defender for Cloud: configured Defender plans across all subscriptions (Servers P2, Containers, Storage, SQL, Key Vault, DNS), remediated high/critical security recommendations, managed Regulatory Compliance dashboard (ISO 27001, UAE IA standards), and integrated with Microsoft Sentinel for unified SIEM alerting.
- Built Microsoft Sentinel SIEM: configured data connectors (Azure Activity, Entra ID Sign-in logs, Defender for Cloud, Palo Alto firewall via Syslog/CEF), authored KQL-based analytics rules for threat detection (lateral movement, credential spray, anomalous Azure API activity), created Logic App playbooks for automated incident response (account disable, NSG rule block, Teams/PagerDuty notification), and managed incident triage and escalation workflows.
- Managed Azure Key Vault as central secrets platform — implemented Key Vault CSI driver for AKS pod secret injection (no Kubernetes Secrets for sensitive data), enforced soft-delete and purge protection for compliance,

managed TLS certificate lifecycle with auto-renewal via DigiCert CA integration, and implemented Key Vault access RBAC replacing legacy access policies.

Azure Monitoring, Observability & Cost Optimization

- Built comprehensive Azure monitoring: configured Azure Monitor metric and log alerts with action groups (PagerDuty webhook, email, SMS) for all critical resources; created Azure Workbooks for operational dashboards covering VM health, AKS cluster metrics, Azure SQL DTU/CPU, Storage latency, and network throughput; implemented Application Insights for APM across AKS-hosted applications.
- Implemented centralized Log Analytics Workspace as unified logging hub — configured diagnostic settings for all Azure resources to flow into Log Analytics; authored KQL queries for security event correlation, performance trend analysis, and compliance reporting; integrated with Microsoft Sentinel for SIEM enrichment and threat hunting.
- Managed Azure Cost Management — implemented budget alerts at subscription and resource-group level, enforced mandatory cost-allocation tags via Azure Policy (deny non-compliant resources), built Power BI cost dashboards for monthly chargeback reporting across GOVINT/OSINT/Smart Nation verticals, and identified and remediated idle resources (unattached managed disks, unused Public IPs, right-sizing oversized VMs) achieving 20%+ cost reduction.

Infrastructure as Code, CI/CD & Automation

- Built fully modular Terraform codebase for all Azure infrastructure using the azurerm provider — modules for VNet/NSG/peering, AKS clusters, Azure SQL, Storage, Key Vault, Private Endpoints, Azure Firewall, Application Gateway, and VM/VMSS; Terraform state stored in Azure Blob Storage with state locking; managed dev/staging/prod environments via workspaces and .tfvars files; integrated OPA/Conftest policy validation into CI pipeline to enforce organizational standards (no public Blob, mandatory soft-delete, required diagnostic settings) before any apply.
- Built GitLab CI/CD pipelines for infrastructure and application delivery: Terraform plan on MR with plan output as pipeline comment and manual approval gate for apply; multi-stage application pipelines (build → test → push to ACR → Helm deploy to AKS) with environment-gated approvals and blue-green rollout via Argo Rollouts; automated AKS node pool image upgrades and Key Vault secret rotation via scheduled Ansible playbooks — reducing manual administration toil by 60%.

Azure AI & GPU Infrastructure

- Provisioned GPU-enabled AKS node pools (NC-series A100, ND H100 instances) for AI/ML workloads — deployed NVIDIA GPU Operator managing driver daemonset, container toolkit, MIG Manager, and DCGM Exporter; configured MIG partitioning for concurrent LLM inference and training isolation; integrated DCGM GPU metrics with Azure Monitor and Prometheus/Grafana for fleet-wide GPU health dashboards.
- Deployed production LLM serving on AKS GPU node pools: vLLM with tensor parallelism and LiteLLM API gateway with OpenAI-compatible routing; integrated Azure Key Vault CSI driver for API key injection into GPU pods via Workload Identity; configured KEDA-based autoscaling on DCGM GPU utilization metrics from Prometheus; integrated Azure Machine Learning compute targets pointing to AKS GPU node pools for MLOps pipeline execution and AML online endpoints for managed inference.

Cloud Engineer | First Abu Dhabi Bank (FAB)

02/2018 – 07/2019 | Abu Dhabi, UAE

- AWS Cloud Administration: designed and managed highly available AWS architectures (EC2, EKS, RDS, S3, Lambda, ECS, Load Balancers) with Well-Architected Framework reviews, IAM governance, VPC design, CloudWatch monitoring, and CloudTrail audit logging for a regulated banking environment; completed FGB-NBAD merger IT integration with zero major incidents.
- Elasticsearch, Hadoop & Security: deployed multi-node Elasticsearch clusters (ILM, Kibana); installed and managed Cloudera CDH clusters (HDFS NameNode HA, YARN, Hive, HBase, Spark, Kerberos/Ranger); owned vulnerability management lifecycle (CVE triage, Ansible patching, post-scan validation); reduced repeat incidents by 35%.

Linux Engineer | HCL InfoSystems Limited

04/2015 – 01/2018 | Abu Dhabi, UAE

- Linux & Data Center Operations (3,000+ Physical Servers): managed large-scale RHEL/CentOS fleet — OS provisioning, Ansible configuration management, hardware fault diagnosis (iDRAC/iLO), and server firmware lifecycle for Dell/HP/IBM servers across enterprise data centers.
- Network & Firewall Administration: managed Cisco/IBM switch VLAN configuration, trunking, STP/RSTP, and LACP port-channels; administered firewall rule sets (DMZ segmentation, NAT, access control); led on-premises-to-cloud Hadoop cluster migration with under 2 hours downtime and 0% data loss.

CERTIFICATIONS

Microsoft Certified: Azure Administrator Associate (AZ-104)

Valid: 02/2026 - 07/2027

AWS Certified Solutions Architect - Associate

Valid: 07/2022 - 07/2025 | ID: PFR7HTQ25EFQQS9T

G42 Cloud Certified Engineer

Valid: 10/2021 - 12/2024 | ID: G42C/SVD/CRT/0475

Microsoft Certified: Azure Solutions Architect Expert (AZ-305)

Valid: 07/2025 - 07/2027

Certified Kubernetes Administrator (CKA)

Valid: 09/2021 - 09/2023 | Renewal in Progress

Red Hat Certified Engineer (RHCE)

Valid: 02/2015 - 02/2018 | ID: 150-012-904

EDUCATION

Master of Business Administration (MBA)

Jawaharlal Nehru Technology University | 2012 - 2015

Bachelor of Technology (B.Tech)

Jawaharlal Nehru Technology University | 2008 - 2012

LANGUAGES & SOFT SKILLS

Languages

English & Hindi (Professional) | Telugu (Native) | German (Elementary)

Soft Skills

Stakeholder Communication | Cross-functional Collaboration | Problem Solving | Rapid Learning | Adaptability | Continuous Improvement