

# Deepak Kumar

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**Microsoft Azure Infrastructure and Deployment AZ-100**

**Microsoft Azure Administrator Associate AZ-104**

**Microsoft Certified Azure Network Engineer Associate AZ-700**

**Google Cloud Certified-Associate Cloud Engineer**

## PROFILE SNAPSHOT

- **Masters in information systems** from **Delhi Technological University (Formerly known as DCE), Delhi** and having **5+ years** of experience in designing, implementing, troubleshooting & creating multiple **Automation** in **Public Cloud domains**.
- Helped multiple customers in **Cloud migration** and **Foundational Setup** of existing **infrastructure to public cloud (Azure)**.
- **Worked** extensively on implementing and administrating **Kubernetes** environment for hosting microservice application and managed the application using **Helm Charts**.
- **Automated** multiple Infrastructure provisioning process using **Azure DevOps, IaC (Terraform & ARM Template), PowerShell & Azure CLI**.
- **Extensively worked on Azure Migrate for Migration**.
- Extensively worked on **Azure Management Group & Azure Policy** for Governance.
- Worked on different **Azure Networking services (S2S, P2S, Vnet Peering, Express Route)** for enabling **Hybrid** connectivity.
- Created & Managed Virtual Desktop solution using **Azure WVD** for Dedicated & Pool Users, implemented **FSLogix**.

## TECHNICAL SKILLS

- **Platforms:** Windows, Linux, VMware
- **Cloud Skills:** Microsoft Azure (IAAS, PAAS), GCP Infra & AWS.
- **Microsoft Azure:** Compute, Azure Site Recovery, Azure Migrate, Azure Backup Centre, Azure Load Balancer, NSG, Route Table, Azure Vnet Peering, Hybrid Connectivity (Express Route, VPN), Azure Storage, OMS Alerts and Monitoring, Azure Security Centre, RBAC, Azure Policy, Management Group, ARM Templates, ACR, AKS, Data factory & Azure Machine Learning Workspace.
- **GCP:** I have worked on GCP Compute, VPC, Shared VPC, VPC Peering, RBAC, Resource Manager, GKE
- **AWS:** EC2, Internet Gateway, S2S Connectivity, Route Tables, Security Groups, S3 bucket, IAM.
- **Backup:** Azure Native Backup, Veeam
- **Languages:** C++, PowerShell, JSON, YAML, Bash.
- **DevOps Tools:** Git, Docker, Kubernetes, Terraform, Azure DevOps, Helm Chart, Ansible.
- **REST API** Automation and API Testing Using **Postman**.

## WORK HISTORY

### ITC Infotech Ltd. – Associate Consultant

Dec 2021 to Present

- Worked with ITC Infotech as a Cloud Consultant under Centre of Excellence Team (COE)
- Presently Leading two Projects and received multiple positive feedbacks for delivered successful Migration of one 5 end markets from NE to SEA as well as successfully performed DR Drill.
- Implemented multiple Azure Resources using **Azure CLI and Terraform** and automated the flow using **Azure DevOps**.
- Implemented **Ingress Controller** for exposing microservice application running on AKS.
- Worked on configuring **monitoring** the microservice applications running on AKS & AKS itself using **Prometheus & Grafana**.
- Administered & fixed backup issues for On-premises servers & AWS servers' on **Veeam Backup** solution.

- Implemented Virtual desktop solutions using **Azure AVD** for **Dedicated Hosts** and for **Pool Users** using **FSLogix**.
- Implemented **Azure Bastion** solution for accessing On-premises workloads connected to Azure Vnet.

## Freelancer: DevOps Engineer

Feb 2021 to Dec 2021

- Worked on managing the application using Helm Chart & deployment through CI CD (Azure DevOps).
- Created multiple Ansible Roles & Playbook for Azure Resource management.
- Worked extensively on Terraform modules and their deployment through CI CD Pipeline.
- Upgraded the AKS cluster with zero downtime by identifying deprecated API's using "Kube-no-trouble" open-source tool, and by using cardon & un-cardon node pool.
- Worked on managing Log Analytics workspace & written many KQL Queries.
- Tested Container signing using **Cosign** (open-source Project) using certificate kept in Azure Key Vault and ACR for Container repository.
- Created multiple YAML templates and incorporated it within different Pipelines. Also worked on scheduler for pipelines.

## HCL Technologies Ltd. – Senior Analyst

June 2018 to Jan 2021

- Started working at the niche level with understanding the customer requirement and implement the cloud solutions on Azure.
- Using **Azure DevOps** to Automate the Infrastructure Building Process
- Worked on the documentation of **HLD** and **LLD** and got the customer approval regarding same.
- Worked on **Express Route connection** and helped it setting up between on premise to azure using private peering, extends Express Route connectivity available in another subscription & also worked on **Express Route Global Reach** to facilitate connectivity between their On-Premises Datacentre.
- Worked out **Route tables**, **Network Performance Monitor** and **Azure Security Center** for the customer environment.
- **Successfully Planned and Performed** Disaster Drill for SAP Workloads.
- Using **BCDR** approach to maintain Business Availability on Azure Public Cloud
- Migrated Servers from on-premises to Azure using **Azure Migrate** (Agent-based & Agent-less) & migrated servers from ASM to ARM Using **MigAz** tool.
- Worked on **COP** and **Migration plan** documents to minimize the Business continuity Risk.
- Manage and support end to end Cloud Infrastructure platform VM Creation, Resource groupings, Backup VMs.
- Perform POC to control the **Kubernetes egress traffic** through Azure Firewall.
- Tested **RBAC & Azure AD integration with Kubernetes** to enhance Security of running microservice applications.

## EDUCATION

**MTech in Information Systems** from **Delhi Technological University (DTU Delhi)**, India (2016 - 2018)

**B.E in Computer Science & Engineering** from **Shri Shankaracharya Engineering College (SSEC Bhilai)**, India (2012 - 2016)

## Achievements

- Received **Star Performer Award** in HCL Technology Ltd.
- Received **Outstanding Performer of the Quarter Award** in ITC Infotech Ltd.
- Participated In **Google Cloud Fair** as **member of Hiring/Recruitment team** from ITC Infotech Ltd.

## Declaration

Above mentioned information's are correct to the best of my knowledge.

**Deepak Kumar**  
Location: Noida Sector-45