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| ***Ismail Khan***  ***Cloud Architect***  **Phone: +91 9986498959**  **Email:** [**khan.ismail786@gmail.com**](mailto:khan.ismail786@gmail.com) | I'm a Microsoft Azure Solutions Architect Expert | kevinhakanson.comI'm a Microsoft Azure Security Engineer Associate | kevinhakanson.comA picture containing text, sign, blue  Description automatically generatedPower Platform Developer Associate ...  ITIL v3 Foundation - Training PartnersSplunk Certified User Certification - Zinea InfoSec Blog |

**PROFILE SUMMARY**

I am a **self-motivated** and **results-driven** **Cloud Architect** with **16+** years of experience **designing and implementing scalable, secure, cost-efficient cloud solutions**. I also specialize in **cloud adoption and migration strategies, DevOps practices, Infrastructure as Code (IaC)**, **and** **Automation** with strong foundation in Microsoft Technologies such as **Azure** and related ecosystems. A **quick learner** and **adaptable problem solver**, I excel at **optimizing cloud infrastructures, streamlining automation workflows, and delivering organizational Blue Chips**. My ability to **bridge technical and business requirements** ensures seamless collaboration between teams and **drives operational efficiency**. Passionate about **innovation** and **continuous improvement**, I leverage my expertise in **automation** and **cloud technologies** to empower organizations in their digital transformation journey and **deliver robust, scalable solutions**. I am always eager to learn new things and explore new opportunities in the field of cloud computing with my current focus being **AI/ML**.

* Good Knowledge on **SaaS, PaaS and IaaS** concepts of cloud computing architecture and Implementation on Public Clouds**.**
* Proficient with **Identity and Access Management** using **Active Directory Domain Service** and **Azure Entra.** This includes setting up **Customer Tenants, Custom Domains, AD-DS** and **Entra** sync**, Privileged Identity Management (PIM), Access Reviews,** settingup **MFA, Conditional Access, B2B and B2C.**
* Proficient in managing **multi tenant cloud environments**.
* Proficient with onboarding customers to **Azure Cloud Service Providers (CSP)** using **Partner Center**, **Azure Lighthouse, GDAP, Splunk, Prisma, GitHub, Terraform Enterprise** and **DevOps.**
* Proficient with setting up **Governance** **Model** in Cloud. This includes setting up **Key Organization components**, **Policies, RBAC, Cost Management & Budgets**, **Asset Locking** and **Tagging**.
* Expertise in setting up **Landing Zones**, following **CAF** and **Well-Architected Framework**.
* Proficient with performing **Cost Optimizations** in the cloud environment.
* Proficient with setting up **Resiliency** for Business Applications in Cloud. This includes **mitigating risks and failures**, identifying critical applications/services, analyzing and understanding **HLD** and **LLD** **documents**, **dependencies** etc.
* Able to understand **Availability requirements** and **Architect accordingly.**
* Develop **Automated Testing** framework using **Selenium.**
* Proficient with **Cloud** **Storage** solutions/services. Expertise in storage **lifecycle** **management** with setting up **secure access**, **encryption**, **networking**.
* Proficient with **Cloud** **Networking.** Setting up **connectivity** between **On-Prem & Cloud, Cloud & Cloud** environments using **P2S, S2S, EXPRESSROUTE and Peering**.
* Proficient with settingup **Virtual Networks, Subnets, NICs, NSGs, ASGs, Service Tags UDRs, LBs, Peering, Service Endpoints, Private Endpoints, DNS.**
* Proficient with Setting up **NVAs** like **Firewall, Application Gateways, Traffic Manager, Front Door.**
* Proficient with **Cloud** **Compute** Services like **Virtual Machines and Virtual Machine Scale Sets.**
* Proficient with **Serverless** Solutions like **Containers, Dockers, Kubernetes, App Service Plans, Azure Functions, Logic Apps** and **Automation Account**.
* Proficient with **Cloud** **Database** **Solutions** for Structured, Semi Structured and Unstructured Data.
* Proficient with solutions for **OLTP (like SQL Server, MySQL, MariaDB, PostgreSQL and Cosmos DB)** and **OLAP (like Synapse).**
* Proficient in setting up **Cloud** **Monitoring** Solutions using **Log Analytics Workspace**, **Azure Monitor** and **Splunk.**
* Proficient with setting up **Cloud** **Security** using **Defender for Cloud and Prisma Cloud for CSPM**. Setting up **SIEM** and **SOAR** solution using **Sentinel**. Managing **secrets** using **vaults**.
* Good Knowledge in implementing **DevOps** **Continuous Integration** and **Continuous Delivery** **(CI/CD)** pipelines using **GitHub**, **Jenkins**, **Terraform** **Enterprise.**
* Experience in performing **Assessments using Azure Migrate, Zerto and Cloudamize.**
* Experience in **Migrating** On-premises applications to Cloud using **Azure Migrate, Zerto, Azure Site Recovery** and **DoubleTake**.
* Expertise in developing **IaC** using **Cloud CLI, PowerShell, Terraform** and **ARM templates**.
* Experience in deploying microservices, application improvement, and upgradation utilizing Azure administrations like **Kubernetes Service (AKS), Container Services, MySQL DB, and Grafana, Azure pipelines,** and **RBAC**.
* Expertise in **Terraform** to create **infrastructure on Cloud**. **Developed 50+** internal **terraform modules** for internal **automated infrastructure deployment** and **management**.
* Worked with the **Terraform Enterprise** to set up **customer** **orgs** and **application** **workspaces** for cloud deployment pipelines.
* Written templates for **Azure infrastructure** as code using **ARM** **Templates** to build the environments staging and production.
* Created and **automated** the **Jenkins pipeline** for the applications.
* Setup **Prisma Policy Pipeline** with **GitHub**, **Python** and **Azure Automation Account**.
* Used **GIT** as a source code management tool for an application and set up the **GITHUB** **branching** **strategy**.
* Having strong and progressive experience in the **Server Installation** and **Administration.**
* Experience in **developing GUI Tools** and **utilities using C# .Net, VBScript, PowerShell**, **BAT scripting**.
* Expertise in developing softwarebuilds to **MSIs** using **Windows Installer, InstallShield, PowerShell App Deployment Toolkit (PADT).**
* Developed **React** based **web application** to **automate** the **complete Customer onboarding process** on **Azure** thereby **reducing** the **onboarding timeline from 4 weeks to 1 week**. Developing backend Restful **APIs** using **Automation Account and Logic Apps**.
* Expertise in developing Java code for **Selenium** based automated testing.
* Aware of **AI** Services like **Vision, Speech, Voice Recognition, Document Processing etc.**
* **Self-motivated** professional with the **ability to learn anything**, **make things happen**, **work under pressure and adhere to strict deadlines**. **Strong people and project management skills**, including the ability to **lead multiple teams and simultaneous projects**.
* Experienced in **leading** the delivery and team along with reporting to **Clients, Higher Management and Excellence Team for Audits.**
* Worked in a Customer facing **Onsite** assignment for short term.
* Worked on **RFPs** and **RFQs**. Developed **Business** **Requirement** **Document (BRD)** and **Proposals**. **Successfully** presented the **Solutioning** to the customer and won the **Project**. **Successfully** **implemented** the project for the customer.
* Fluent with **GitHub** **Copilot** while developing code.

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| **TECHNICAL SKILLS**   |  |  | | --- | --- | | **Cloud Technologies** | Azure | | **Operating Systems** | Win7, Win10, Windows Server, Linux, Ubuntu, CentOS | | **Programming/Web Technologies** | C, C++, C#, Java, Python, HTML, TypeScript, CSS, React | | **Automation Tools** | Terraform, ARM Templates, Selenium | | **Web Servers** | APACHE Tomcat, Nginx, Azure | | **Networking/protocol (aware of)** | DNS, DHCP, WAN, TCP/IP, UDP, ICMP, NFS, SMTP, LAN, FTP | | **Scripting** | Batch, VBScript, PowerShell, Bash, YAML, Shell Script, Python | | **Virtualization technologies** | Windows Hyper-V, VirtualBox, VMWare Workstation | | **Containerization and Orchestration** | Docker, Kubernetes, AKS | | **Database** | SQL Server, Oracle, MySQL | | **Logging & Monitoring Tools** | Splunk, Azure Monitor, Log Analytics Workspace, New Relic | | **Version Control Tools** | Git, GitHub, BitBucket. | | **Build Tools** | Windows Installer, MSI, PowerShell App Deployment Toolkit | | **Continuous Integration** | Jenkins, Terraform Enterprise. | | **Ticketing Tools** | AHA, Rally, ServiceNOW | | **IDE** | PoweShell IDE, VSCode, Notepad++ | | **AI** | Azure AI Studio, GitHub Co-Pilot, Copilot for Security |   **PROFESSIONAL EXPERIENCE**   |  |  |  | | --- | --- | --- | | Company | Designation | Period | | Optum Global Solutions | **Cloud Architect** | **Dec 2020 – Present** | | EY | **Supervising Associate** | **Sept 2019 – Nov 2020** | | Accenture | **Cloud Ops Engineering Specialist** | **April 2013 – Sept 2019** | | Hewlett Packard | **ITO Service Delivery Consultant** | **July 2010 – April 2013** | | SuperValu Services India | **System Engineer** | **Sept 2008 – July 2010** |   **ROLES AND RESPONSIBILITIES**   * **Cloud Computing Services – Azure CSP** * Managed a **multi-tenant** environment. * Onboarded **Gov** **Cloud** customers. * Developed the **Pre-Onboarding Questionnaire** for any new customer onboarding. * Developed **Splunk Queries, Reports, Dashboard** and **Alerts** for monitoring. * Developed **DevOps Pipeline** framework and IaC modules for Terraform deployments. * Developed **Prisma Cloud Solution** for **Cloud Security Posture management (CSPM).** * Setup **Discovery** calls with customers to understand their business requirements and their current environment and assist them to populate the Questionnaire with the pre-requisites. * Guide the customer throughout the **onboarding** process. * Establishing Customer **Tenant**. * Invite customer to **CSP** solution and create the **Azure Plan**. * Setup **Management** **Groups**. Provision **Subscriptions**. Enable **Resource** **providers**. * Create **Service Principals**, set up **Lighthouse** connections and **GDAP** for delegated access. * Setting up **Governance** through Azure Policies, Prisma Cloud CSPM, Splunk Integration using Azure Functions and EventHub for Audits. * Setup **Access** Groups and apply RBAC for Access Management. * Setup **Monitoring**, using Azure Monitor, Log Analytics Workspace, Alerts rules and Action Groups. * Setup **Security** solutions using Defender for cloud, Sentinel for SIEM and SOAR. * Setup Customer Org, agents, workspaces in **Terraform Enterprise (TFE).** * Setup Access groups, connection to **version control** and **TFE**. * Setup **connectivity** between customers on-prem environment and cloud using **EXPRESSROUTE**, S**ite-to-Site VPN.** * Deploy **Landing Zone**. * Setup **Power BI** Cost Management dashboard for customer and provide access. * **Train** the operations team and handover. * Provide **L4** support to Operations team for any issues within the cloud environment or resource deployments. * Provide **consultation** services for any new projects and/or initiatives. * Assist in engaging with **Microsoft Support**. * Work closely with Security Team for **Security** **Assessments** of customers Cloud Assessments and implement the required controls to **mitigate** any **risks** identified. * Worked with the **EIS** team to develop a **Pen** **Testing** **environment** for the customers. * Performed **POC** on **Co**-**Pilot** for **Security**. * Assisted in **AVD** implementation. * **Cloud Computing Services – Cloud Migration** * Connecting with App owners and understanding **technical** **requirements** for the applications. * **Working** **end-to-end** with all stake holders involved in the **migration** activities. * Comprehending and reviewing **High level design** for Azure and manage the **Build of Material** document. * Using tools for **assessment** and to validate interdependency of applications within the enterprise and connecting with application owners to understand technical requirements for the applications. * Set up the infrastructure for **migration** from **On Prem to Cloud** (ASR, Double-take, Cloudamize etc.) * Setting up the Waves for migration based on interdependencies between applications. * **Planning** the migration timelines, finalizing technical configurations (defining the Resource Groups, VNet, Subnet, NSG configurations etc.) * Scheduling and Mobilizing resources for the **Migration** **execution**. * Performing the **T-, T0 and T+** activities during migration to Cloud Environment. * Providing **SME** **support**, troubleshooting migration issues for Windows Servers. * **Migrating** of **SAP** and **Non-SAP** infrastructure from On-prem to Azure environment. * **Azure to Azure** migration procedures. * **Mentoring** team to get up to speed with new technologies and assisting them to adopt automation methodology. * Created **Isolated copy of client production environment** within the subscription for **Mock testing**. * Managed the **Active Directory Services** and **DNS** entries for the Mock Environment. * Setup the various measures within the environment like the **SiteScope server, AOHA, Qualys Guard, Log Analytics** and **Automation** **Account** for hardening and monitoring purposes. * **Cloud Computing Services – Build and Design** * Comprehending and reviewing high level design for Azure. * Creating **Design Architecture** for applications. * Implementing **Landing** **Zones**. * Built application environments to operate at high availability in different Azure regions by **using CDN, Azure Traffic Manager, App Services-Web Apps, Active Directory, Storage Queues, Cognitive Services, Azure Search, Storage Blobs, Redis cache,** and **SQL Database**. * Creating and Managing Virtual Machines in Windows **Azure** and setting up communication with the help of **Endpoints**. Configured **Shared Access Signature (SAS)** tokens and Storage **Access Policies** in Azure Cloud Infrastructure. * Configured **VNET Peering** to enable communication between resources across multiple Virtual Networks and configured **NSGs** for two tiers and three-tier applications to filter network traffic using **Terraform modules**. * Experience in routing all traffic through the **private endpoint**. * Hands-on experience on **Site-to-site** **VPNs**, **Expressroute**, **Virtual** **Networks**, **Network Security Groups**, **Load balancers** and **Storage Accounts.** * Expertise in Creating Custom **Golden** **Images** for **VMs** and Deployed the Custom **Golden** **Images** into **VMs** using **Terraform**. * Implementing **ARM Templates\Terraform scripts** to automate Pre configurations, Deployment and Post Configurations of resources. * Implementing **Networking** resources like **VNets, Subnets, Service Endpoint, NSG, ASG, Service Tags, Resource Firewall, Network Interfaces, Public Private IPs, UDR etc.** * Implementing **High** **Availability** Solutions using **Availability** **Zones**, **Availability** **Sets**, **Load** **Balancers**, **Application** **Gateways**, **Traffic** **Manager**. * Implementing **Security** and **Monitoring** using **Azure Security Centre**, **Azure Monitor**, **DDoS protection, Azure Firewall, Network Watcher, Traffic Analytics, Network Performance Monitor, OSM Log Analytics.** * Implementing the **Hub and Spoke model**. * Built the **SAP** infrastructure for **DEV**, **QAS** and **Production** environment. * Setup **SAP ASCS** and **SCS** environment for **Windows Failover Clusters, Scale of File Servers (SOFS),** **Cloud Witness**, **High Availability** architecture using Load Balancers and Availability sets. * Setup **Frontend IPs, Backend Pool, Health Probes, LB rules**. * Setup **SQL DB clusters** and Standalone VMs. Also configuring **SQL always on Clusters**. * Created Isolated copy of client production environment within the subscription for **Mock testing**. * Managed the **Active Directory Services and DNS entries** for the **Mock Environment**. * Implemented **Azure extensions** for VMs. * Setup the **Disaster Recovery** environment in the secondary region. * **KT** and **Handover** to the **Operations** team for smooth run. * **Performance** **monitoring** the migrated Environment. * Part of the **BIA** initiative to develop customer **CMDB.** * **Automation and Special Projects** * **NCAP –** Developed a **React** based frontend **web** **application** hosted on **GitHub** with **custom** **Domain** **name** backed by **Restful** **APIs** developed using **Azure** **Serverless** **Computing** resources. This application was developed to **fully** **automate** the **Customer** **Onboarding** Process. We were able to reduce the onboarding timeline from **4-5 weeks to 1 week** with this automation. * **Secrets Management using Azure KeyVault – Zero touch fully automated process** for **managing** **enterprise** **secrets.** All secret related operations like creation, rotation and decommission of secrets were automated along with proper **email** **alert** mechanism to keep the stakeholders aware of any operations. Applying all Vault related **policies** and **security** **best** **practices** like **soft delete** etc. **Automation** **Account**, **Logic** **Apps** and **Managed** **Identities** used as **enablers** for these **automations**. **Successfully** **implemented** this in the customer environment and developed a **reusable** **framework** which could be deployed to additional customers. * **Prisma Cloud (CSPM solution) -** Developed **Prisma Cloud standards** and included all relavent polices under this umbrella. **Developed** **pipeline** to deploy new policies from **json** templates using **Python**. **Email** **alerts** for any updates. **Onboarded** **customer** **subscriptions** to Prisma Cloud Solution. **Integrated** any **policy** **violations** with **Sentinel** and **Service** **Now** for automatic Incident Creation. Proper email alert mechanisms also developed. * **Service** **Automations** include **Application Packaging Dashboard in SPLUNK, Partially Automated Source Review** and **QA Process, Decommission of Applications, Packaging and deploying Applications (Click Once, WebApp & Fast Track applications), Pending SSL Certificates Automation, UDS file share creation, Service Account Management, GPO Creation, Involved in App Deployment Incident Automation, SCCM Client health remediation, SCCM Client Health Report.** * **Automated deployment of Sentinel Cisco Connectors Runbooks – Developed** **IaC** for **pipeline** deployment of **Cisco** **Connectors** **Runbooks** required to **injest** **data** to **Sentinel**. * **DevOps** * Setting up DevOps environment for clients using **GitHub** and **Jenkins**. * Setting up reusable **Terraform** **IaC** modules for resource deployments. * Setting up **Jenkins** **pipelines** for resource deployments using reusable **Terraform** **modules**. * Administration of the DevOps environment. * Leading Automation team to work on automating the various **Service** **Requests** that are handled by the different teams in EUC domain. * Organizing **Design** **Thinking** sessions with different teams and **deriving** **new** **automation** **ideas**. * Gathering the requirements and creating **Visio** **Workflows**. * **Maintaining product Backlog**. * **Automating Service Requests.** * **Training** teams on **usage** of these **automations**. * Implementing DevOps practices for Enterprise Applications. * Performing version Control using **BitBucket**. * Creating CI\CD pipelines using **Jenkins** and **Azure** **DevOps**. * Creating pipelines for Web Applications and deploying applications to Azure. * Automating testing using **HPQC**. * Setup monitoring using **Splunk**. * Performed **POC** for **DevOps** implementation for .**Net** and **Java** **Web** **applications** on **Azure** using **Azure DevOps**. * **Onsite - Stockholm, Sweden** * Working in a **customer** **facing** **environment**. * Working with the **application** **owners** and getting the applications streamlined with the process. * Doing a **Pre**-**Evaluation** of **Applications** once they arrive for Packaging. * Doing **Integration** **Testing** in the **live** **environment** for applications once the Packaging and Internal QC is complete. * Working with the Application Owners and setup applications for **User** **Acceptance** **Test**. * Attending weekly calls with stake holders and Release manager and providing inputs when required regarding applications and helping in getting the application **CAB** **approved** for the release calendar. * **Assisting** in getting the application setup in **production** **environment**. * **Application Packaging** * Defining and formalizing **robust** **IT** **infrastructure** setup for optimizing existing performance in co-ordination with **On-site Project Managers** and **Deployment** **Consultants** within the **Process life cycle of BAU**. * **Managing** a **team** of **12 members** to **package applications** and **stage** them for **deployment** through **SCCM 2012**. * **Creating proposal, estimates**, and **inventory** for **Windows 10 migrations** from **Windows 7** Environment**.** * Acting **SME** and **Implementing Design Thinking methodologies** and **optimizing existing processes** by involving team to **reduce delivery timelines** and thus **improving overall experience** for our **stakeholders**. * Connecting with business representatives on daily basis to understand the critical requirement and **prioritize** the **critical applications delivery**. * Tracking the overall packaging requests and driving the team in delivering the packaged application within **SLA** and **helping** themduring **technical difficulties**. * **Mobile Application packaging** for **IOS** and **Android devices** for **Intune deployment** and **administrator** for **Apple Development Program**. * Performing all weekly and monthly **reporting** (Steerco, CDart, Delivery Output.) * Manage the **team** **leaves** and **Roster Plan** and **maintain** monthly **calendar** within the team. * **Applying** monthly **Microsoft** **patches** on **Servers** and **managing** the **Active** **directory** **Services**, **DNS** **Servers** **etc**. * **Creating** and generating reports through **SCCM** for **software** **compliances** and **audits**. |
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## Educational Qualification

* Bachelor Of Engineering, Computer Science

[Visvesvaraya Technological University](https://vtu.ac.in/en/), Karnataka

**Professional Certification/Training:**

* Microsoft Certified: Azure Solutions Architect Expert
* Microsoft Certified: Azure Security Engineer Associate
* Microsoft Certified: Azure Administrator Associate
* Microsoft Certified: Azure Fundamentals
* Microsoft Certified: Power Platform Developer Associate
* Microsoft Certified: Power Platform Functional Consultant Associate
* MB-230 Microsoft Dynamics 365 for Customer Service
* Microsoft System Center Configuration manager 2007, configuring
* Windows 7, Enterprise Desktop Administrator
* Microsoft Copilot Partner Bootcamp – FY24 Participant
* HashiCorp Certified: Terraform Associate (003)
* ITIL V3 Foundation
* Splunk User Certification
* Big Data and Hadoop (Edureka)