Bhaskaram **Manda**
Cloud Architect

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Accomplished and creative Technical Architect and Manager possessing multifaceted experience and proven ability to elevate any application, computing platform infrastructure and data operation to the cloud.

Professional Summary

2019 - 2020 **Senior Solution Leader**
Fractal Enterprise LLP
Leading Enterprise Architecture for Cloud AWS & Azure, Micro services and DevOps.
Providing leadership expertise across all application modules and platform.
Leading team of Architects and Engineers .

2017 - 2019 **Cloud Engineering Manager**
Accenture
Leading enterprise architecture and **cloud computing** product architectures, implementation across a suite of cloud services. Providing individual and team leadership expertise across all products and platforms.

2016 - 2017 **Cloud Architect**
Kogentix
Provided Cloud architecture consulting to various development and operations teams.

2011 - 2015 **Pre-Sales Manager**
HCL Infosystems Ltd.
Conducted systems design, feasibility and cost studies and recommend cost-effective infra and cloud solutions.

2007 - 2011 **Service Delivery Manager**
HCL Infosystems Ltd.
Managed overall delivery of contracted services at client site.
Ensured proper staffing levels to guaranteetimely and accurate deliveries.

2004 - 2007   Team Lead
HCL Infosystems Ltd.
Customer service.
Led the team for all key projects in BFSI vertical.

1997 - 2004   Customer Engineer / Sr. Customer Engineer
HCL Infosystems Ltd.
Support services to Banking & Financial Services Industry and Govt. customer projects
Delivered network technology training to junior team members and end-users, enhancing knowledge base and team productivity.

Accomplishments as Cloud Architect

- ***Building infrastructure and Platform in AWS***
➢ Design & Implementation of AWS Infra.
➢ AWS Security with Network Segregation, Perimeter Security, WAF, Data in Transit, Data at Rest, OS level VA with Inspector and hardening
➢ Scalability and High Availability with AWS Auto Scaling and Availability Zones.
➢ Performance Efficiency,
➢ Operation &   Management with AWS CloudWatch, CloudTrail, Log Aggregation, Automation.
➢ Performance optimization
➢ Disaster Recovery

- **Building Micro services Infrastructure**
➢ Design and implementation of micro services.
➢ Kubernetes with AWS EKS
➢ Rancher with HA and DR plan.
➢ Kubernetes Cluster Hardening with kube-bench and kube-hunter
➢ Kubernetes RBAC
➢ Calico Network Policies
➢ Istio App Service Mesh
➢ Istio Authentication & Authorizatio
➢ Service to Service Encryption
➢ Traffic Routing and Management with Istio
➢ Kubernetes Scaling and Sizing
➢ Monitoring Kubernetes Cluster, Nodes, Services, Pods etc. with AWS CloudWatch Container Insights, Metric beat and Elastic search Kibana
➢ Micro services log monitoring with Fluentd , Elastic search and Kibana
➢ Disaster Recovery
➢ Micro services Build Automation with Jenkins CI/CD Pipeline.

- **Migration and Integration of various application modules into micro services**
➢ Working with various application engineering teams
➢ Understanding application architecture.
➢ Re-factoring to make compatible with micro services architecture.

- ➢ Planning for sizing and scaling for all applications.
- ➢ Dockerizing the applications.
- ➢ Building Jenkins CI/CD pipeline for build automation.
- ➢ Deploying applications into kubernetes cluster as micro services through CI/CD.
- ➢ Testing and optimization of the application.

- • *Migration of SAP to Azure Cloud Platform*
- ➢ Design & Implementation of SAP on Azure which includes various SAP components viz. SAP A/SCS, PAS/AAS/DB, Azure HANA Large Instances, SOFS Cluster for SAP Global Profiles and interfaces, HADR for all components, Networking Vnet's, Express Route, Peering, UDR, NSG's, Service Endpoint, Backup, Monitoring
- ➢ Designing and implementation of network for MS HANA Large Instances.
- ➢ Led HADR design and drill for entire SAP on Azure Landscape which includes SAP A/SCS through ASR, SAP PAS/AAS through ASR, SOFS through ASR, SQL Always On, MaxDB DR through Log shipping and HA through SIOS.
- • *Design & Implementation of Azure HD Insight*
- ➢ Designing and implementation of Azure HDInsight with Kerberos authentication which includes
- ➢ Networking – Vnet, Express Route, Peering's, UDR, NSG etc.
- ➢ IAM – Kerberos Integration of HDI Cluster Azure Active Directory Domain Service, Sync of AADDS with Azure Active Directory Tenant.
- ➢ Data Storage – ADLS Gen2 and SQL for metastore.
- ➢ HD Insight Cluster Deployment.
- ➢ Key Vault for managing custom keys.
- ➢ OMS for HDI Cluster Monitoring.

- • *Azure Foundation Build*
- ➢ Azure New Region Design and Build which includes VNET, Express Route, Subnets, IP Address Space Design, NSG's, Traffic Manager, Automation with PowerShell and DSC. Azure Backup with Recovery Service Vault and MARS Agent.
- ➢ ADFS Expansion Design and Configuration.
- ➢ AD Configuration.
- • *Migration to Cloud*
- ➢ Assessment, Planning, Migration, Integration, Optimization of On-Premise workloads to Cloud.
- ➢ Discovery, Assessment, Dependency Mapping, Migration of On-Premise Servers to Azure using Azure Migrate.
- ➢ Assessment and Migration of Databases to Azure using Azure DMA and Azure Database Migration Service.
- ➢ Data migration using Azure File Sync and AWS Storage Gateway.
- • *Cloud Operations*
- ➢ Architecture, Designing & Deployment Azure Services Viz Compute, Storage, Networking, Azure Backup & Azure Site Recovery, Availability Sets and Load Balancing etc.
- ➢ Azure Monitoring with Microsoft OMS.
- ➢ Azure Infra as a code with PowerShell and Ansible
- ➢ Working with custom templates, custom policies and custom RBAC.
- ➢ Networking services like configuring Site-to-Site VPN, Vnet-to-Vnet VPN, Express Route.

- ➢ Architecture, Designing & Deployment AWS Services viz Compute, Storage, Networking, Backup & Disaster Recovery.
- ➢ Networking services like configuring VPC, Route53, VPC-to-VPC Peering, NAT Gateway, Open swan VPN etc.
- ➢ AWS Resources Monitoring CloudWatch.
- ➢ AWS Infra as a code with CloudFormation

☆ Technical Skills

- **Data Center Transformation:** Migration to Cloud, Backup & Storage Solution using Cloud Services.
- **Cloud Transformation:** Expertise on Cloud Migration, Assessment for Cloud Migration, Cloud Transition.
- **Cloud Operations:** Managing IAAS & PAAS Services on AWS and Azure, Back & High Availability, IAM & Security, Managing Monitoring, Automation.
- **AWS**:
  - ➢ Expertise in Design and deployment of EC2, EBS, AMI, Backup of EBS Volumes using scripts and third-party tools, EKS, Elastic Beanstalk.
  - ➢ Expertise in Design and deployment of S3, EFS, S3 Glacier, Storage
  - ➢ Gateway.
  - ➢ Expertise in Design and deployment of VPC, CloudFront, Route 53, Direct Connect.
  - ➢ Expertise in CloudWatch, CloudTrail, CloudFormation, Auto Scaling, Config, Systems Manager.
  - ➢ Expertise in IAM, Directory Services, AWS Organizations, Single-Sign-On, Key Management Service, Cloud HSM, Certificate Manager, Secrets Manager, WAF & Shield, Inspector, GuardDuty, Resource Access Manager.
  - ➢ Expertise in Server Migration Service, Database Migration Service.
- **Azure**:
  - ➢ Expertise in Design and deployment of Azure Compute, Storage, Network Services.
  - ➢ Expertise in Azure Networking, Vnet, ExpressRoute, Peering, Load Balancing, Application Gateway, Service Endpoints etc.
  - ➢ Azure Security with Azure Security Center, Azure Policies, NSG/ASG, UDR, Azure Firewall, Resource level Firewall, WAF, Encryption of data, Just-In-Time VM Access etc.
  - ➢ Azure Storage Services, Azure Storage, ADLS, Azure Files, Azure File Sync etc.
  - ➢ Azure Authentication & Authorization with Azure AD, and RBAC
  - ➢ Expertise in Azure PAAS Services, Azure App Services, HD Insight, Azure SQL, AKS, Azure AD DS etc.
  - ➢ Expertise in Azure Backup, DR with Azure Site Recovery.
  - ➢ Azure Monitor and OMS.
  - ➢ Azure Migration with Azure Migrate and Database Migration Service.
  - ➢ Azure Automation and Governance with Management Groups, Azure Blueprint, Azure Resource Graph.
- **Business Continuity**: HA/DR Design and implementation using Cloud Technologies.
- **Automation:** Azure ARM Templates, Azure DSC, PowerShell, AWS CloudFormation, Ansible etc.
- **DevOps:**, Azure DevOps, AWS CodeCommit, CodeBuild, CodeDeploy, CodePipeline ,Jenkins etc.
- **Microservices:** Docker, Kubernetes, AWS EKS, Rancher, Deployment of microservices with Jenkins pipeline, App Service Mesh, Isto Configuration, Traffic Routing, Rate Limiting, A/B Testing, Canary Testing.

Education & Certifications

2017   AWS Certified Solutions Architect-Professional

2015   AWS Certified Solutions Architect-Associate

2012   MBA

1997   Diploma in Electrical Engineering

Languages

English   ◆◆◆◆◆

Hindi   ◆◆◆◆◆

Telugu   ◆◆◆◆◆