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# Empowering Telemedicine Through Microsoft Azure-Driven Solutions

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# ABOUT US :

ThoughtSol Infotech is a leading IT system Integrator and cloud services provider company on a mission to enable businesses to grow through Digital Transformation. We help them to leverage the power of IT for a 360° impact on their business operations via our solutions and expertise that spans across Cloud Services, Cybersecurity Services, Data Center Solutions, Digital Solutions and NextGen Services.

YEARS IN BUSINESS **10+**

**100+** CERTIFIED RESOURCES

NUMBER OF CLIENTS **402+**

**HAPPY EMPLOYEES = HAPPY CUSTOMERS**

We are certified with Excellence in *Quality Management*, *Service Management*, *Information Service Management*, *Environmental Management* and *Business Continuity Management* .

**We are at CMMI LEVEL 3**

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**INDUSTRY:**
Government

# ABOUT THE CLIENT :

A pioneering research and development entity in India focused on advanced computing technologies, collaborates with a government-backed telemedicine platform. This partnership harnesses state-of-the-art technology to augment healthcare accessibility, with the research organization providing expertise in digital infrastructure. The telemedicine initiative utilizes this infrastructure to facilitate remote medical consultations.

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# BUSINESS CHALLENGES:

- **Reliability Under Load: Existing infrastructure struggled to maintain high reliability amidst escalating demand, risking service disruptions during peak usage.**

- **Manual Scaling Inefficiencies: Manual resource scaling led to inefficiencies and increased operational costs, hindering agility and scalability.**

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# SOLUTIONS OFFERED

1. **Migration to Azure Cloud Infrastructure**
- Utilized Azure Virtual Machine for seamless lift-and-shift migration of the existing workloads, ensuring minimal disruption and efficient resource utilization.
- Leveraged Azure Storage Accounts for scalable and durable storage, optimizing data accessibility and reliability.
- Employed Azure MySQL Flexible Servers to establish high-performance, fully managed database solutions, enhancing application responsiveness and reliability for critical healthcare data.

2. **Development of Teleconsultation Application**
- Architected a microservices-based Teleconsultation application on Azure Kubernetes Apps for granular scalability, fault isolation, and streamlined deployment.
- Implemented Azure Cosmos DB for managed, highly available database instances, ensuring data integrity and performance for storing sensitive healthcare information securely.
- Utilized Azure App Service for containerized application hosting, facilitating seamless deployment and scaling to meet the demands of a rapidly growing user base.
- Established CI/CD pipelines with Azure DevOps for automated build, test, and deployment processes, facilitating rapid iteration and continuous improvement.

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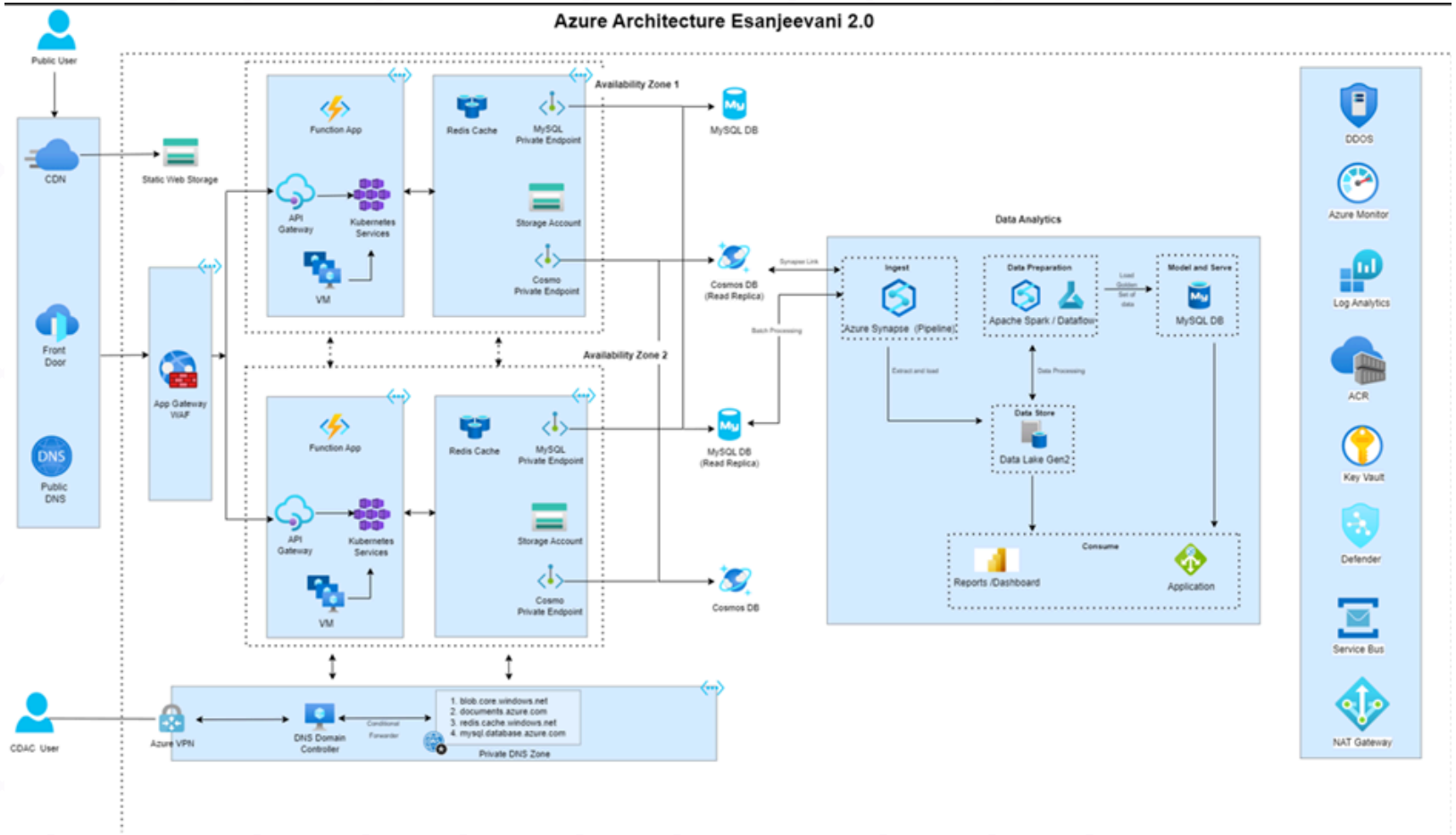
# TECHNOLOGIES USED




## OFFERINGS:

- ·Azure Cloud (End to End)
- · DevOps (CI/CD Pipelines)
- ·Power BI
- ·Azure Synapse (Data Pipelines)

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# IMPLEMENTATION PROCESS

- **Infrastructure Setup: Established a resilient foundation with Azure Virtual Machines, Storage Accounts, and Virtual Network Gateways.**
- **Containerization: Leveraged AKS for efficient container orchestration, ensuring scalability and resilience.**
- **Data Management: Implemented Azure Synapse for agile data processing and analytics, enhancing efficiency.**
- **CI/CD Automation: Deployed Azure DevOps pipelines for automated software delivery, facilitating rapid iteration.**
- **Monitoring and Support: Implemented comprehensive 24/7 monitoring and support, ensuring proactive issue resolution and minimal downtime.**

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# BUSINESS IMPACTS

- **Unmatched Availability: Ensured uninterrupted access to telemedicine services, even during peak demand.**
- **Robust Architecture: Built a fault-tolerant infrastructure capable of withstanding unforeseen disruptions.**
- **On-Demand Scalability: Dynamically scaled resources to accommodate fluctuating user traffic, ensuring optimal performance.**
- **Minimal Downtime: Reduced downtime to near-zero, guaranteeing reliable access to medical consultations nationwide.**

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# CONCLUSION :

**Through ThoughtSol's expertise in Azure Cloud and cutting-edge technologies, our client achieved a paradigm shift in telemedicine. By surmounting technical challenges and harnessing the power of Azure, we have laid the groundwork for a future where healthcare knows no boundaries, ensuring vital medical consultations are accessible to all, anytime, anywhere.**

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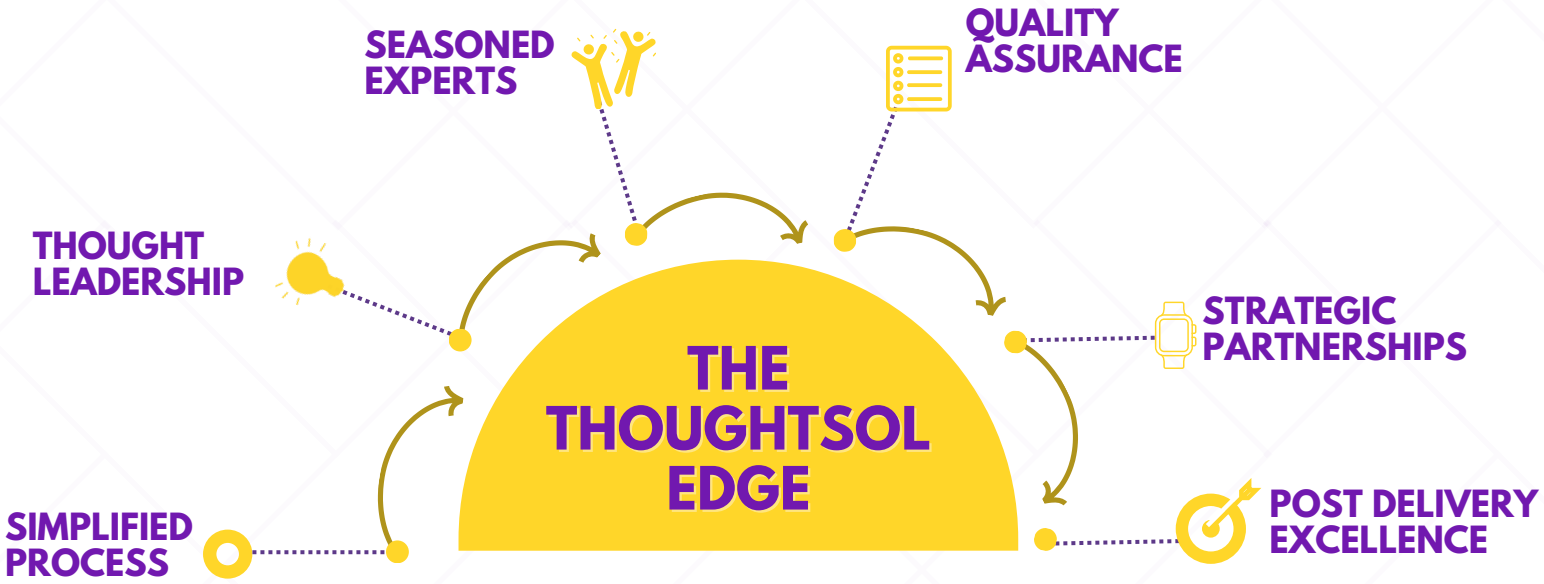
# THE THOUGHTSOL EDGE:




We believe in the happiness of all our stakeholders and keep our customers at the centre of everything we do.

## CONNECT WITH OUR EXPERTS

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