Scalable and Elastic – Real-world Implementation Case Study

Project: TaxSmile – Tax Submission Portal

➤ Initial Deployment:

- On-Premise Setup (Feb): 2 Servers
- Load & Stress Testing (Apr): Added 3 More Servers

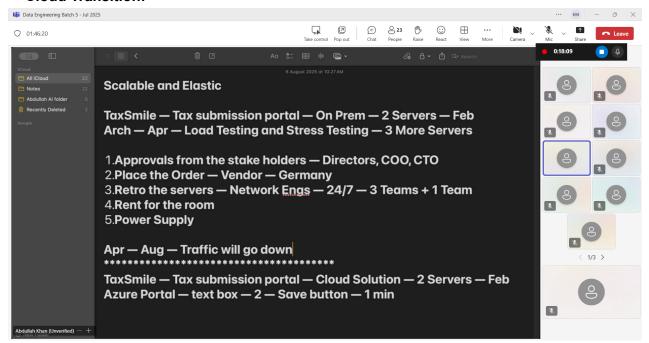
➤ Pre-Deployment Planning:

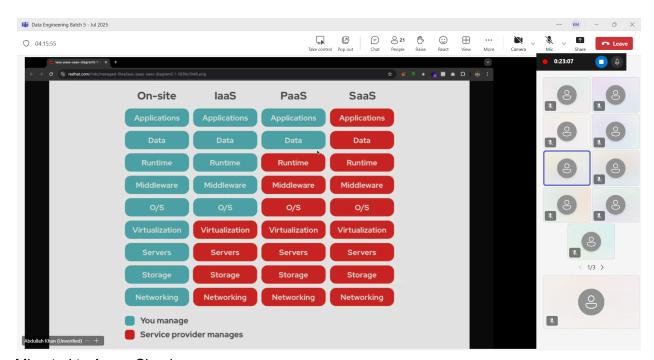
- 1. Approvals from Stakeholders Directors, COO, CTO
- 2. Order Placement Vendor from Germany
- 3. Server Retrofitting 3 Network Engineering Teams, 24/7 Ops
- 4. Infrastructure Room Rental, Power Supply Setup

➤ Observations:

• Traffic Expected to Drop in Aug

➤ Cloud Transition:





Migrated to Azure Cloud

Setup: 2 Servers (Feb)

Simple Portal Example: 2 text boxes + 1 Save button → Executes in 1 min

Cloud Service Models – Responsibility Matrix

► On-Premise:

You manage everything from Networking to Applications.

► Infrastructure as a Service (laaS):

You manage: Applications, Data, Runtime, Middleware, OS Provider manages: Virtualization, Servers, Storage, Networking

▶ Platform as a Service (PaaS):

You manage: Applications, Data

Provider manages: Runtime, Middleware, OS, Virtualization, Servers, Storage, Networking

► Software as a Service (SaaS):

Provider manages everything – You only manage Application usage.

Key Takeaway:

As we move from On-Prem to SaaS, the responsibility shifts from the user to the provider, reducing management overhead and increasing scalability.