```
┌─────────────────────────────────────┐
│      Computer kharidne ke tarike?    │
└─────────────────────────────────────┘
     │              │              │
┌──────────┐  ┌──────────────┐  ┌────────┐
│Khud kharid│  │Killerkoda     │  │ Cloud  │
│lao        │  │(Fokat ka)     │  │        │
└──────────┘  └──────────────┘  └────────┘
```

```
┌────────────────────────────────────────────────┐
│ 1. Onboarding - Subscription Creation, MG        │
│    Creation and MG- Subscription Association     │
├────────────────────────────────────────────────┤
│ 2. Resource Group                                │
└────────────────────────────────────────────────┘
```

Hypervisor

Server Rack   Server Rack

Elearn Application 3 Tier Application

| Frontend | Backend | Database |

Killerkoda - Ubuntu OS - 1 Ghanta Free Computer

Nginx - Middleware

Computer Kharidne ke Tarike

| On Premises | | Cloud |

10 Core, 64 GB, 1 TB SSB
10 Core, 64 GB, 1 TB SSB

Elearn

| Frontend | Backend |

2 Core 4 GB

5 Core 6 GB

5 Core, 32 GB, 1 TB SSB

10 Core, 64 GB, 1 TB SSB

10 Core, 64 GB, 1 TB SSB

Gym Management Software

| Frontend | Backend |

5 Core, 32 GB, 1 TB SSB

5 Core, 32 GB, 1 TB SSB

Virtualization

10 Core, 64 GB, 1 TB SSB

Hypervisor Software

Hypervisor - Type 2

Lenovo Motherboard Software - BIOS

Operating System - Windows 11

Hypervisor - Type 2

Oracle Virtual Box

Create Virtual Machine

4 GB, 4 Core, ubuntu

300 Core

1080 GB RAM

HP Motherboard - Hardware

Hypervisor - Type 1

Lenovo Motherboard Software - BIOS

Hypervisor - Type 1

VMWare ESXI

Proxmox

Create Virtual Machine

4 GB, 4 Core, ubuntu

Datacenter

Azure Hypervisor

Azure Fabric Controller

CPU - 130 Core	CPU - 130 Core	CPU - 130 Core
RAM - 500 GB RAM	RAM - 500 GB RAM	RAM - 500 GB RAM
HDD - 10 TB	HDD - 10 TB	HDD - 10 TB
NIC- Network Card	NIC- Network Card	NIC- Network Card

Azure VM Request Process
1. User Request
2. Azure Resource Manager will receive request
3. Fabric Controller will check which rack to create a VM
4. Custom Azure Hypervisor will create VM
5. Storage and Network attachment
6. VM Booting
7. Public IP Assignment

Central India

West US

Region - Central India

| Zone 1 - Pune | Zone 2 - Mumbai |

Electricity meter1 100 Unit Free

fault domain 1

fault domain 1

Electricity meter1 100 Unit Free

Electricity meter2 100 Unit Free

fault domain 2

fault domain 2

Electricity meter2 100 Unit Free

Availability Set - Koi bhi 2 ya 2 se jyada vm ko rakhne ke lie ek zone ke andar alg alg rack me rakho taki ek saath sab band na ho jae

Update domain
fault domain

High Available banane ke 2 Tarike

| Availability Zone | Availability Set |