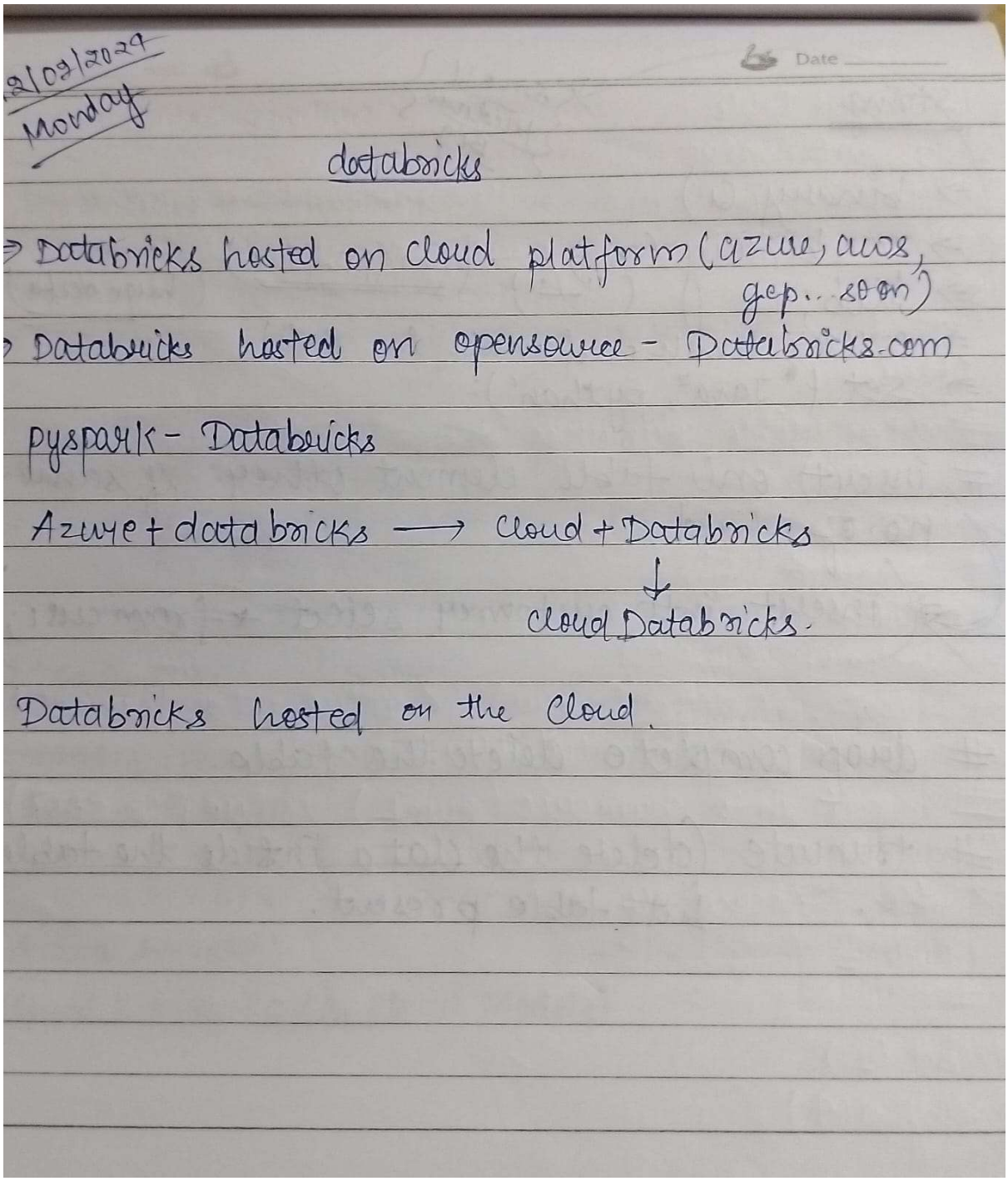
Name: Abhishek Kanoujia

DATA ENGINEERING BATCH 1

DAY 17 ASSIGNMENT

Class hand written notes:-



Date

Microsoft Azure:

before cloud - Virtualization (we can create in a virtual space) → ex: VM

⇒ Azure is cloud computing platform.

⇒ Azure is a continually expanding set to cloud.

⇒ Azure give you the fn^{n} to build, manage ----

3 type of service

IaaS - host (SQL)
PaaS - build
SaaS - consume,

⇒ Azure services:
⇒ Cloud services (a.k.a cloud models)

Date

Why cloud:

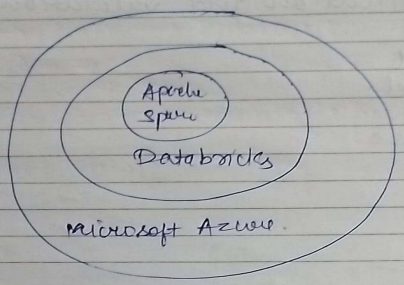
speed → scale → Economics:
↓ ↓ ↳ Reduce cost.
Rapidly setup — Scale the increase activity daily

Core cloud service:

Azure compute option
Azure data storage options
Azure networking options
IOT

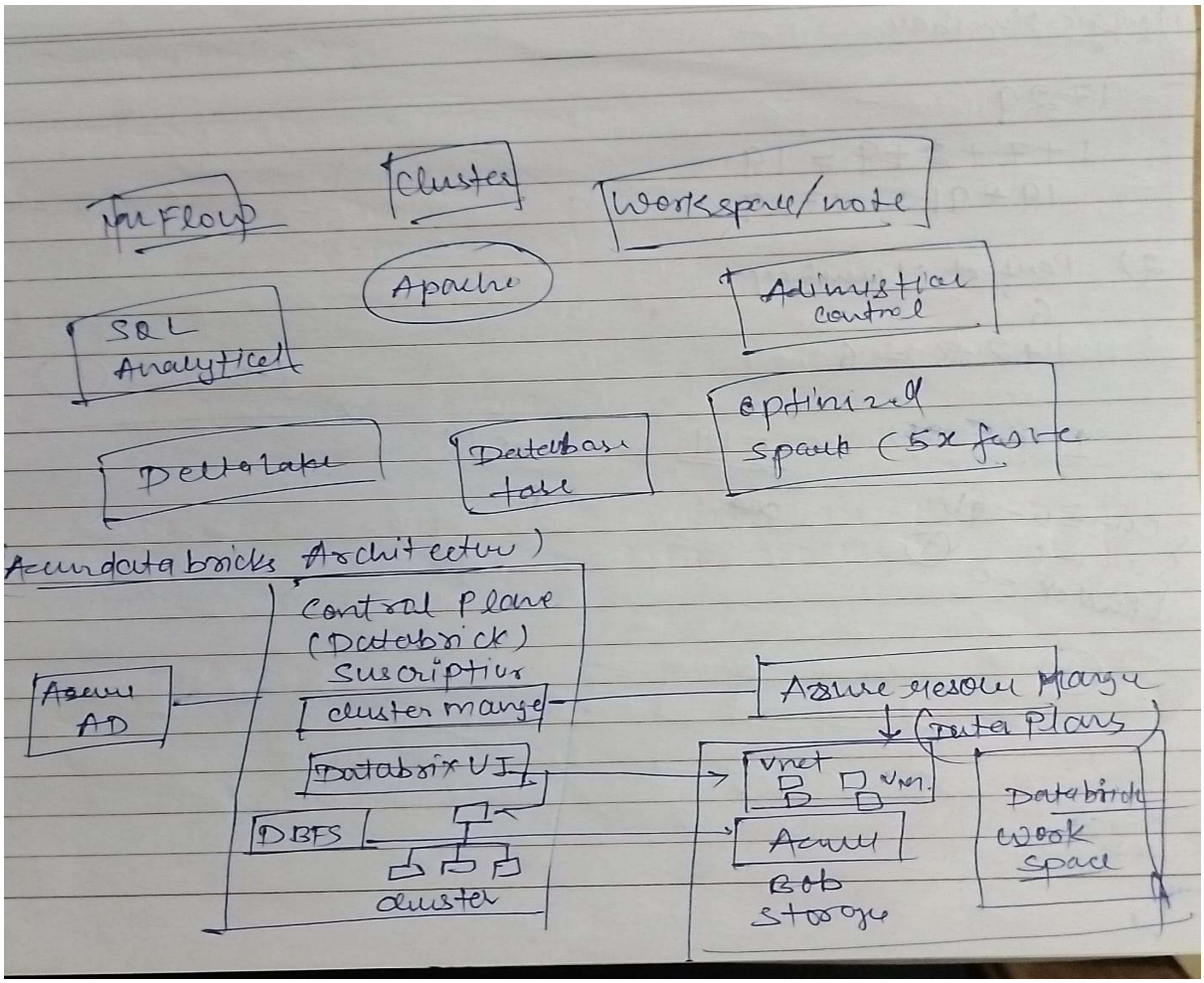
Azure Stack
It is a portfolio to extend Azure services and capability

Azure databricks:



Apache spark : is a fast unified analytics engine for big data processing and machine learning

- ⇒ 100% open source
- ⇒ simple and easy
- ⇒ in-memory processing
- ⇒ Distributed.



Microsoft Azure : Search bar

Date

Azure AdB2C (all the credential are created with it)

↓

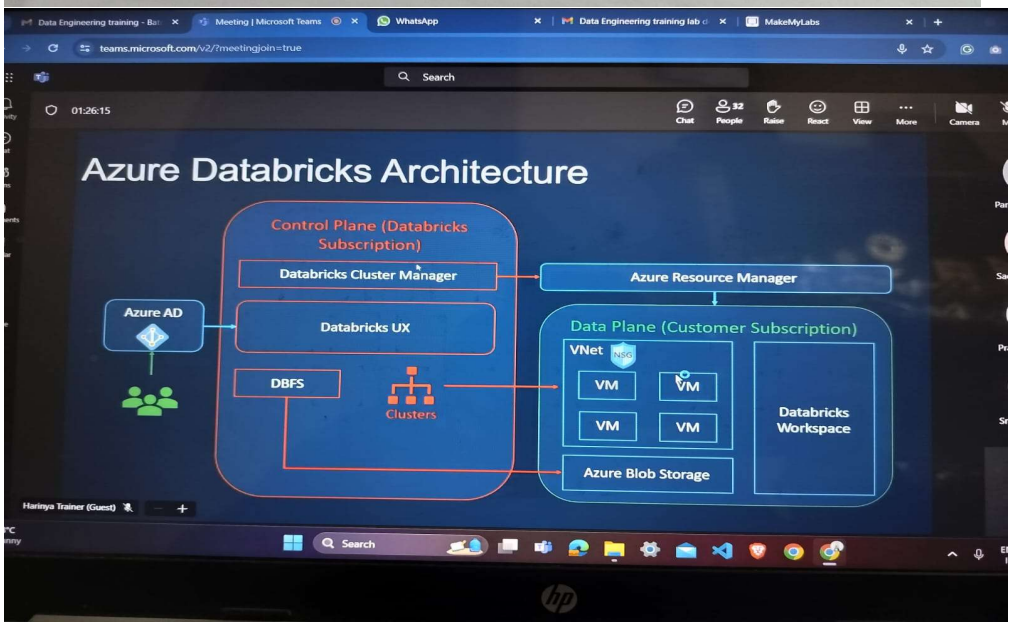
Azure resource manger (move) →

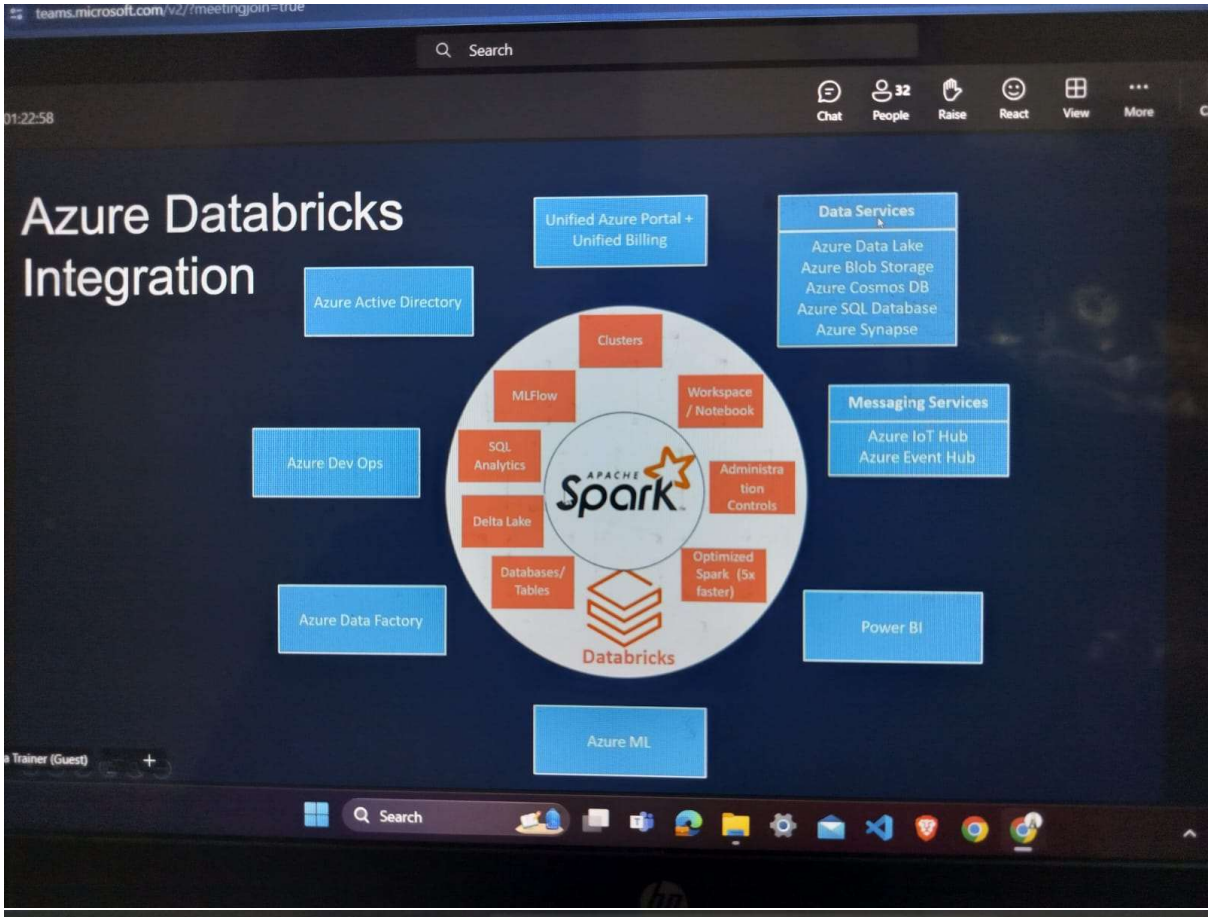
Azure blob → (folder)

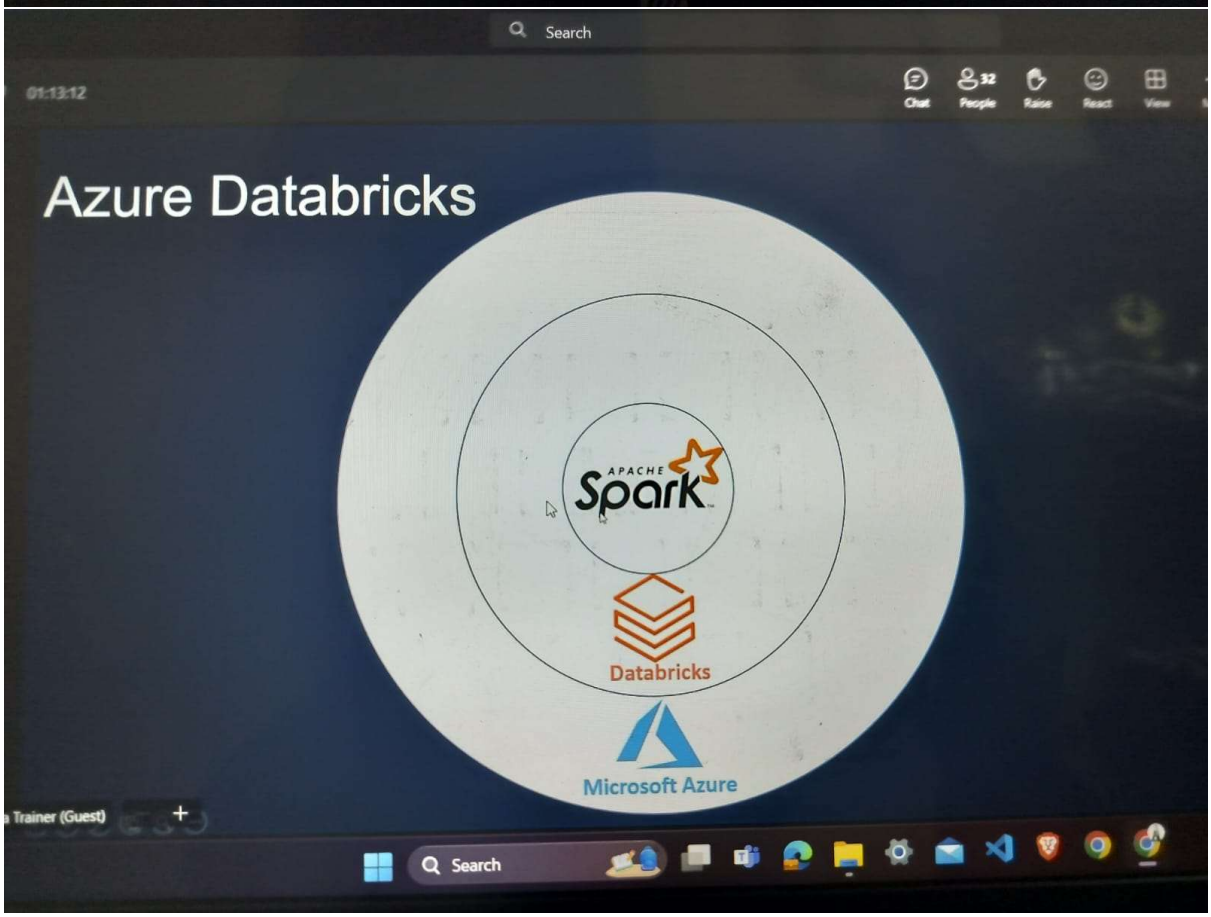
Storage account → create → all (also)

#

(hexa-deb-1066) ⇒ [create a cluster
Naming of cluster)]




Search
Chat
People
Raise
React
View
More
Azure Databricks Integration
Unified Azure Portal + Unified Billing
Data Services
Azure Data Lake
Azure Blob Storage
Azure Cosmos DB
Azure SQL Database
Azure Synapse
Azure Active Directory
Clusters
MLFlow
Workspace / Notebook
SQL Analytics
Administration Controls
Delta Lake
Databases/ Tables
Optimized Spark (5x faster)
Databricks
Messaging Services
Azure IoT Hub
Azure Event Hub
Azure Dev Ops
Azure Data Factory
Power BI
Azure ML
Trainer (Guest)
Search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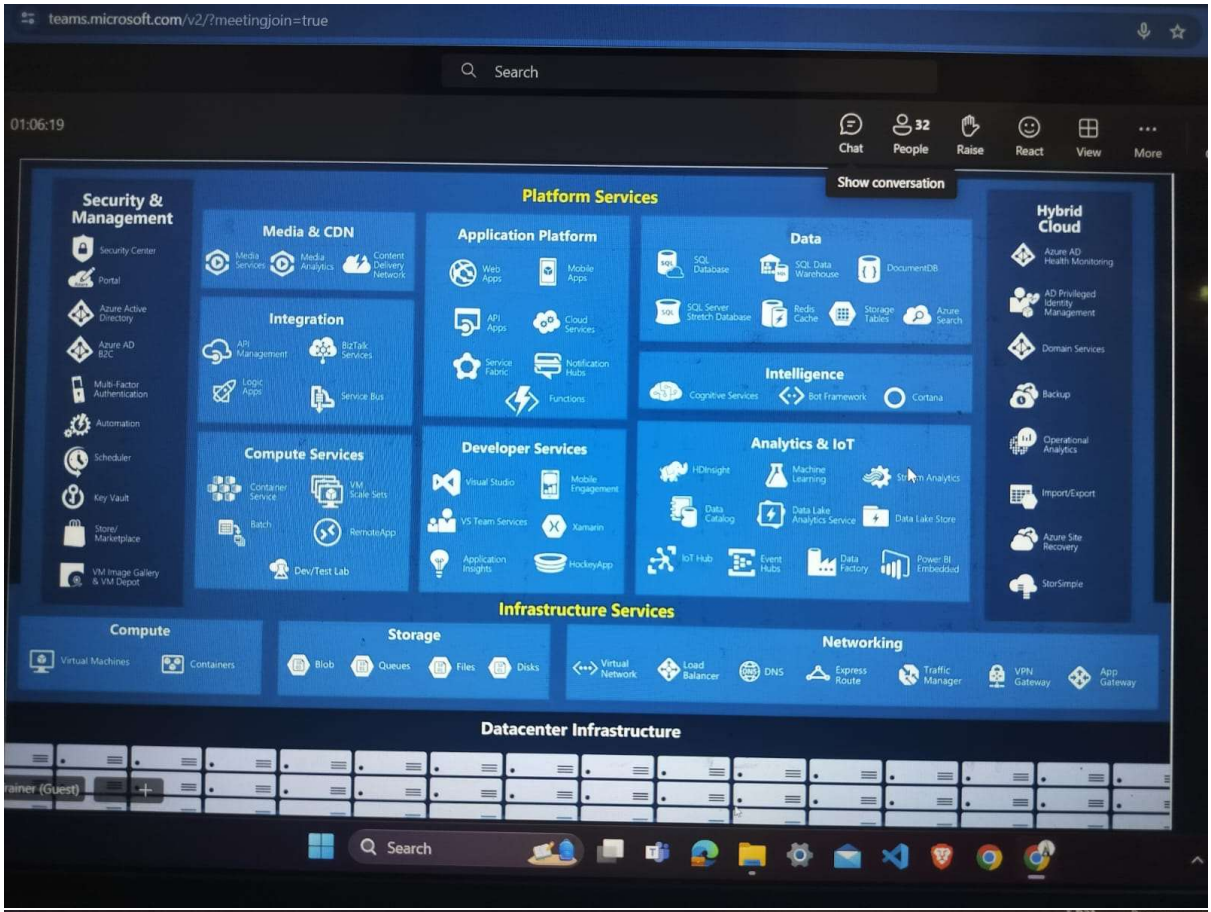
Azure Databricks
Databricks
Microsoft Azure
Trainer (Guest)
Search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Search
01:06:19
Chat
People
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Raise
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View
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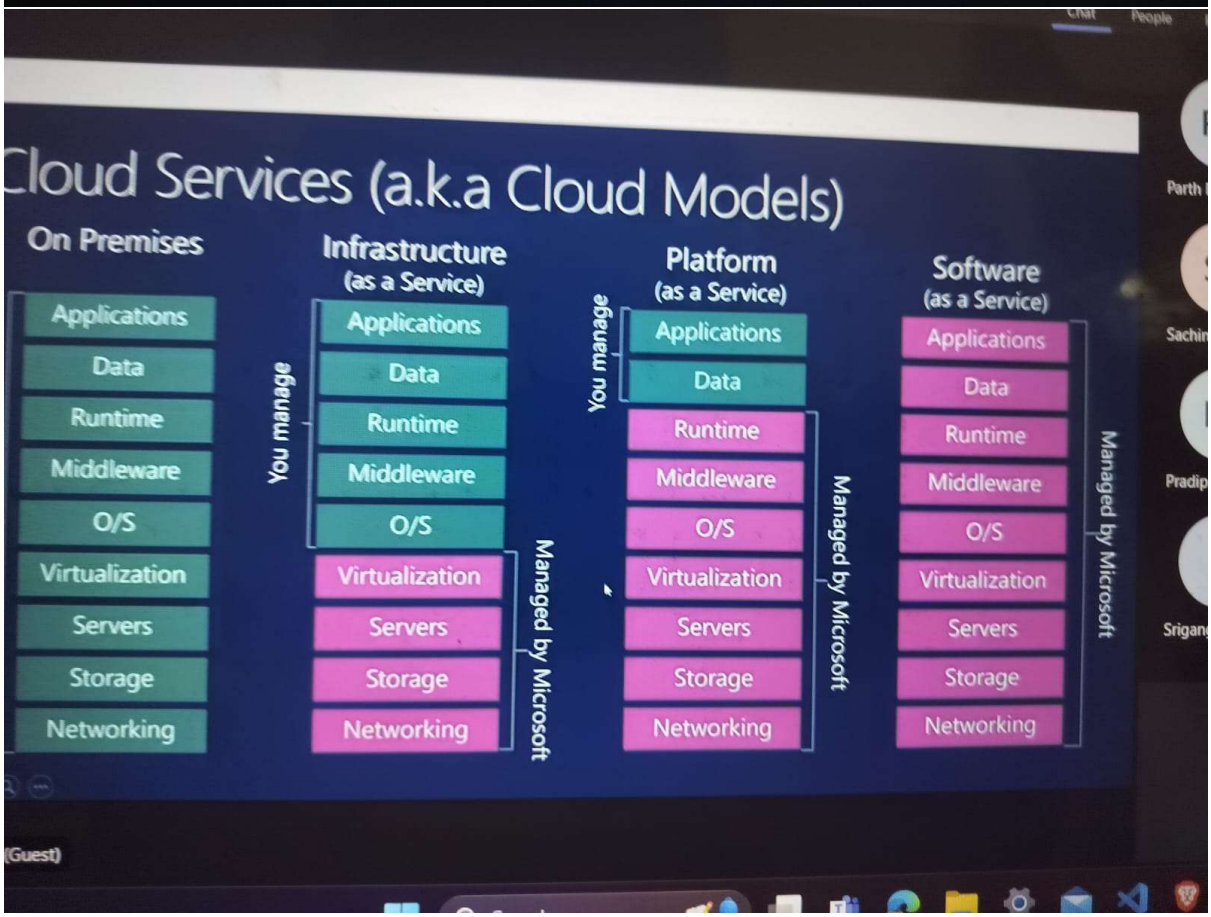
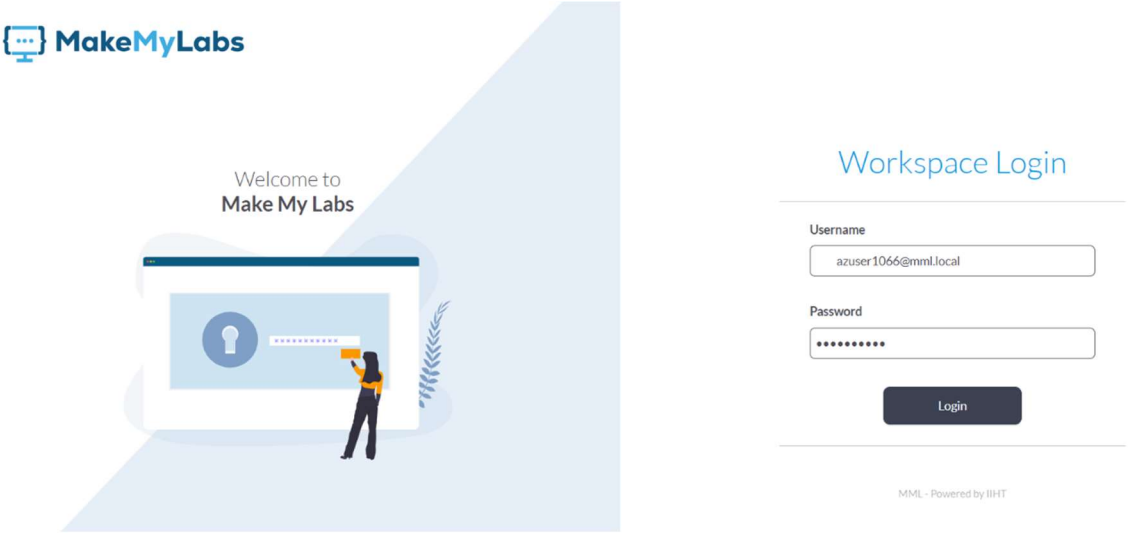
Show conversation
Security & Management
Security Center
Portal
Azure Active Directory
Azure AD B2C
Multi-Factor Authentication
Automation
Scheduler
Key Vault
Store/ Marketplace
VM Image Gallery & VM Depot
Platform Services
Media & CDN
Media Services
Media Analytics
Content Delivery Network
Integration
API Management
BizTalk Services
Logic Apps
Service Bus
Compute Services
Container Service
VM Scale Sets
Batch
RemoteApp
Dev/Test Lab
Application Platform
Web Apps
Mobile Apps
API Apps
Cloud Services
Service Fabric
Notification Hubs
Functions
Developer Services
Visual Studio
Mobile Engagement
VS Team Services
Xamarin
Application Insights
HockeyApp
Data
SQL Database
SQL Data Warehouse
DocumentDB
SQL Server Stretch Database
Redis Cache
Storage Tables
Azure Search
Intelligence
Cognitive Services
Bot Framework
Cortana
Analytics & IoT
HDInsight
Machine Learning
Stream Analytics
Data Catalog
Data Lake Analytics Service
Data Lake Store
IoT Hub
Event Hubs
Data Factory
Power BI Embedded
Hybrid Cloud
Azure AD Health Monitoring
AD Privileged Identity Management
Domain Services
Backup
Operational Analytics
Import/Export
Azure Site Recovery
StorSimple
Infrastructure Services
Compute
Virtual Machines
Containers
Storage
Blob
Queues
Files
Disks
Networking
Virtual Network
Load Balancer
DNS
Express Route
Traffic Manager
VPN Gateway
App Gateway
Datacenter Infrastructure
Search

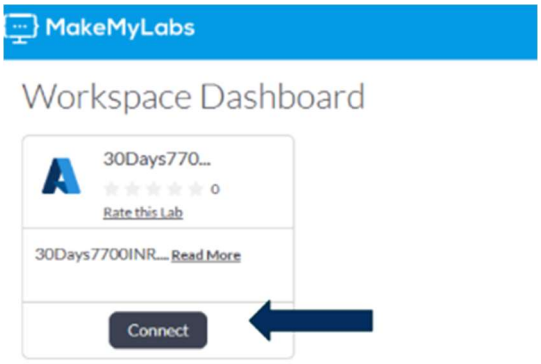

Cloud Services (a.k.a Cloud Models)
On Premises
Applications
Data
Runtime
Middleware
O/S
Virtualization
Servers
Storage
Networking
Infrastructure (as a Service)
You manage
Managed by Microsoft
Platform (as a Service)
Software (as a Service)
Parth
Sachin
Pradip
Srigan
(Guest)

Azure Lab setup:-

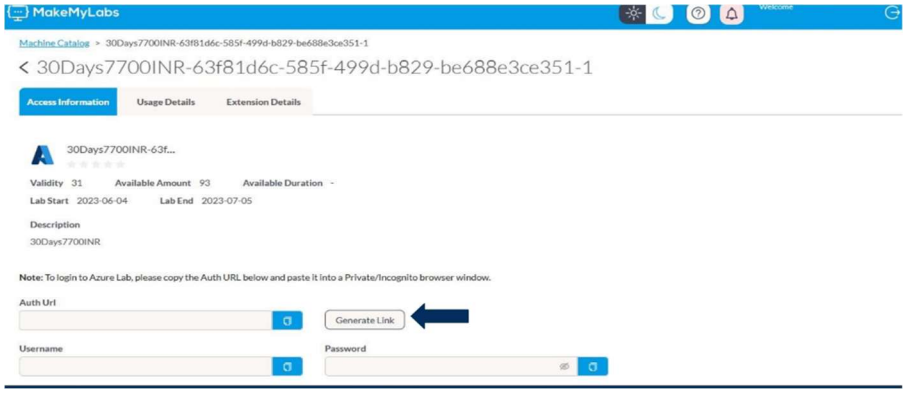
- Open the lab URL shared with you by the organization and fill in login details:-



- Once login redirect to the connect option:-

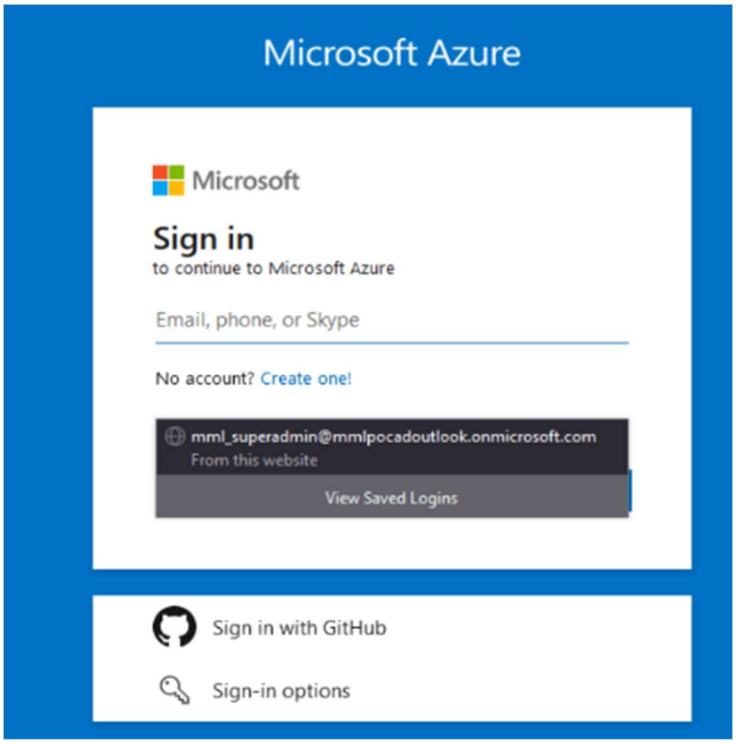


- dashboard where all the lab details are available. Click on the generate link:-



- Once you click on Generate Link the login details will be shown like above:-

- Copy the details then open a new tab and login to Azure Portal:-



- Sign-out from the Azure portal:-