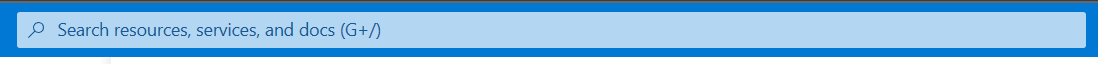
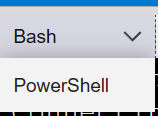
Website

<https://portal.azure.com/>



Global search bar





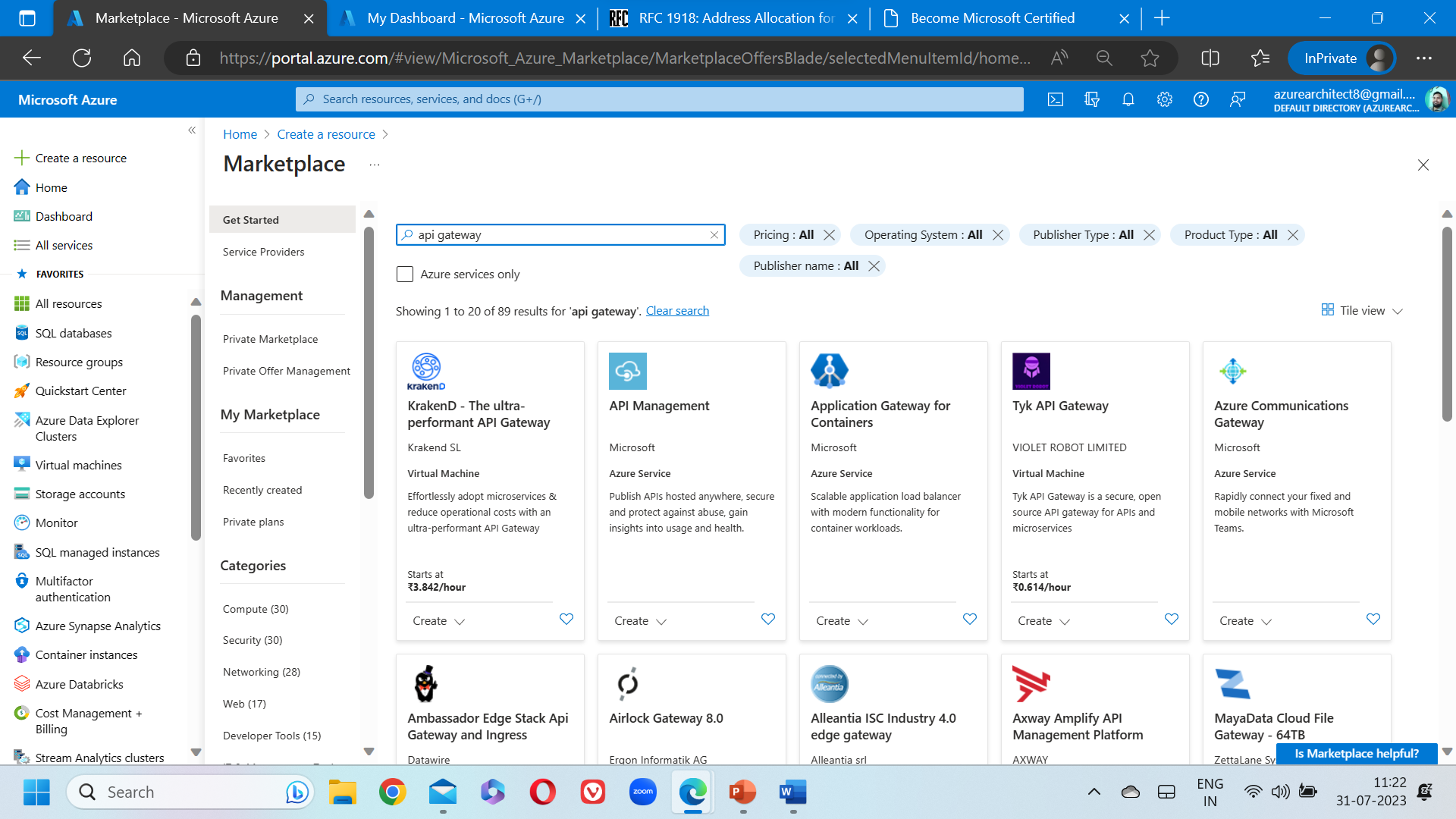
Bash 🡪 Bourne again shell 🡪 Linux -🡪 AZ CLI cmdlets {easier}

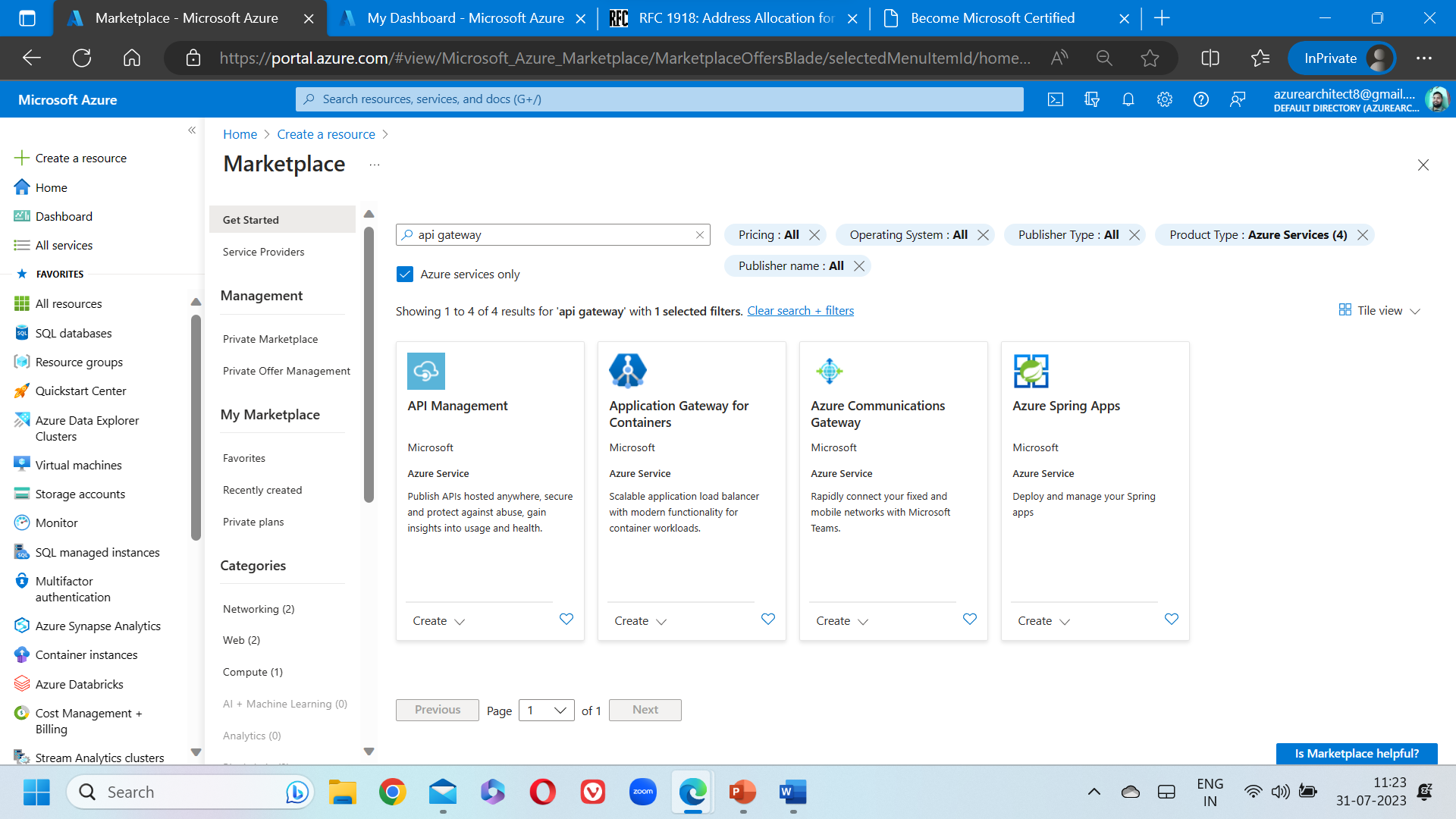
Powershell 🡪 Powershell AZ Module cmd{geeky}🡪 Microsoft own shell (supports Bash also)

Manage App Service Environments.



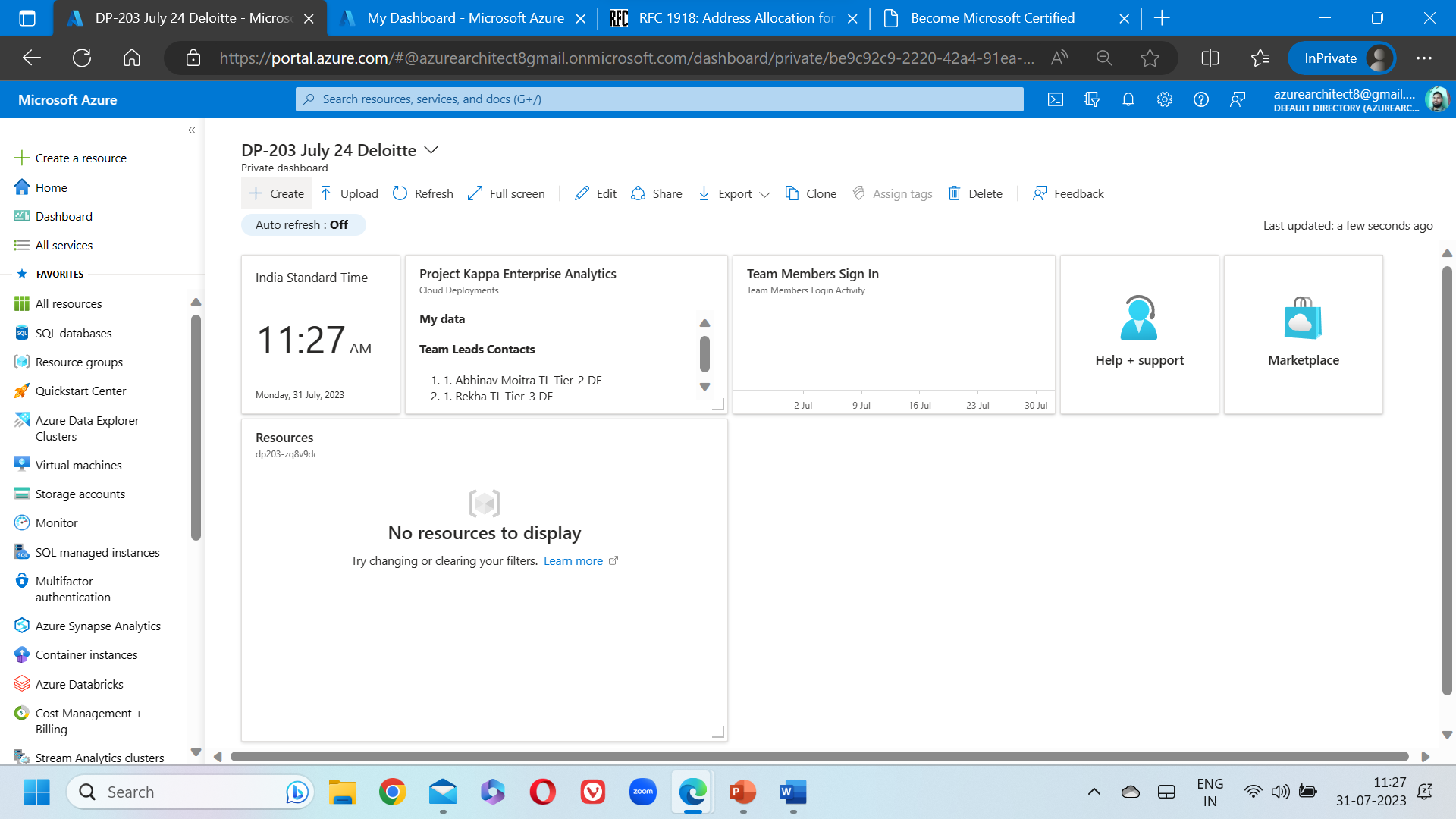


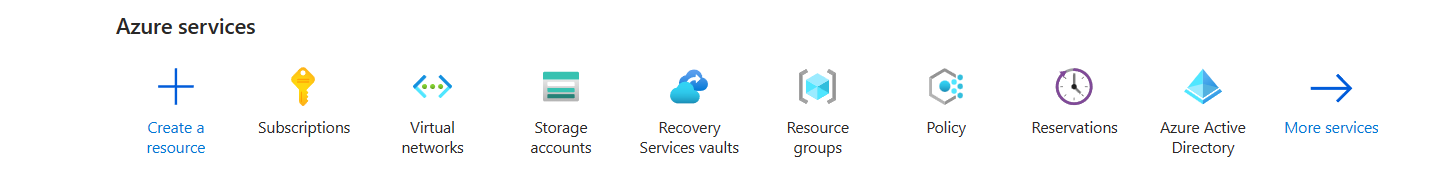




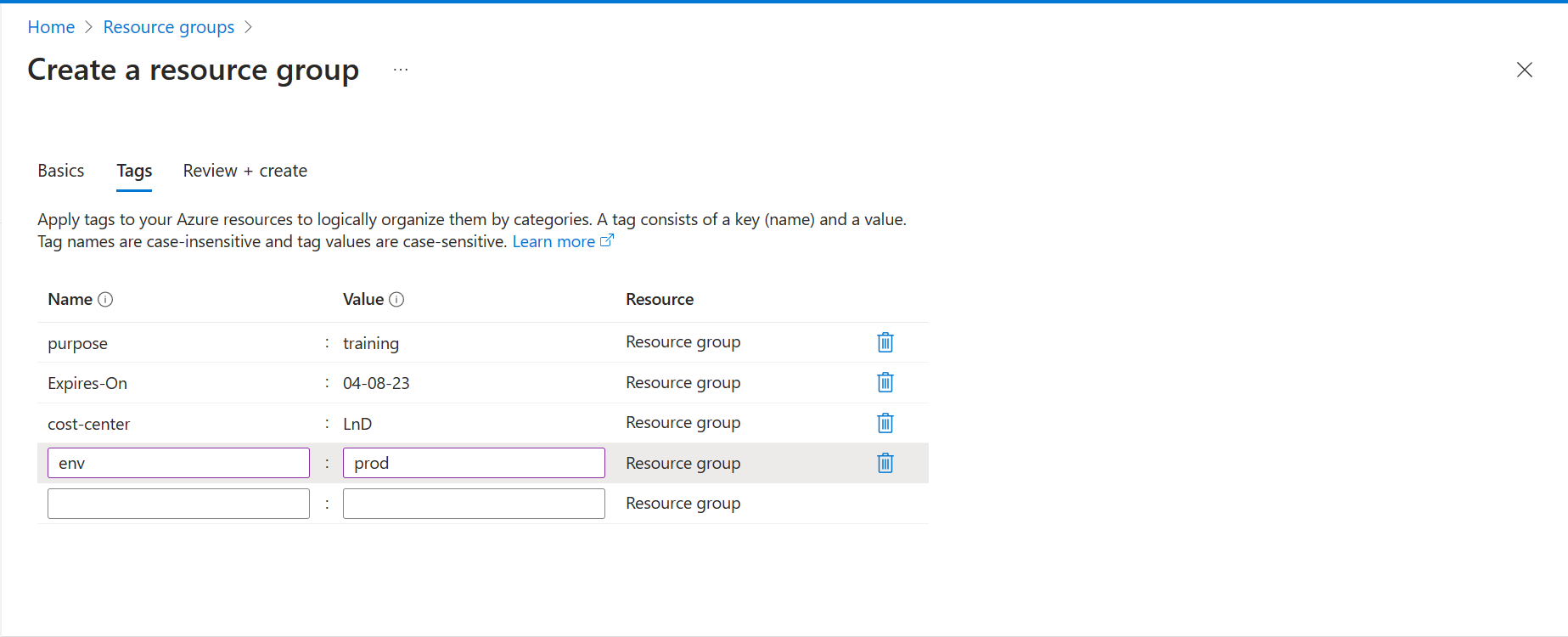


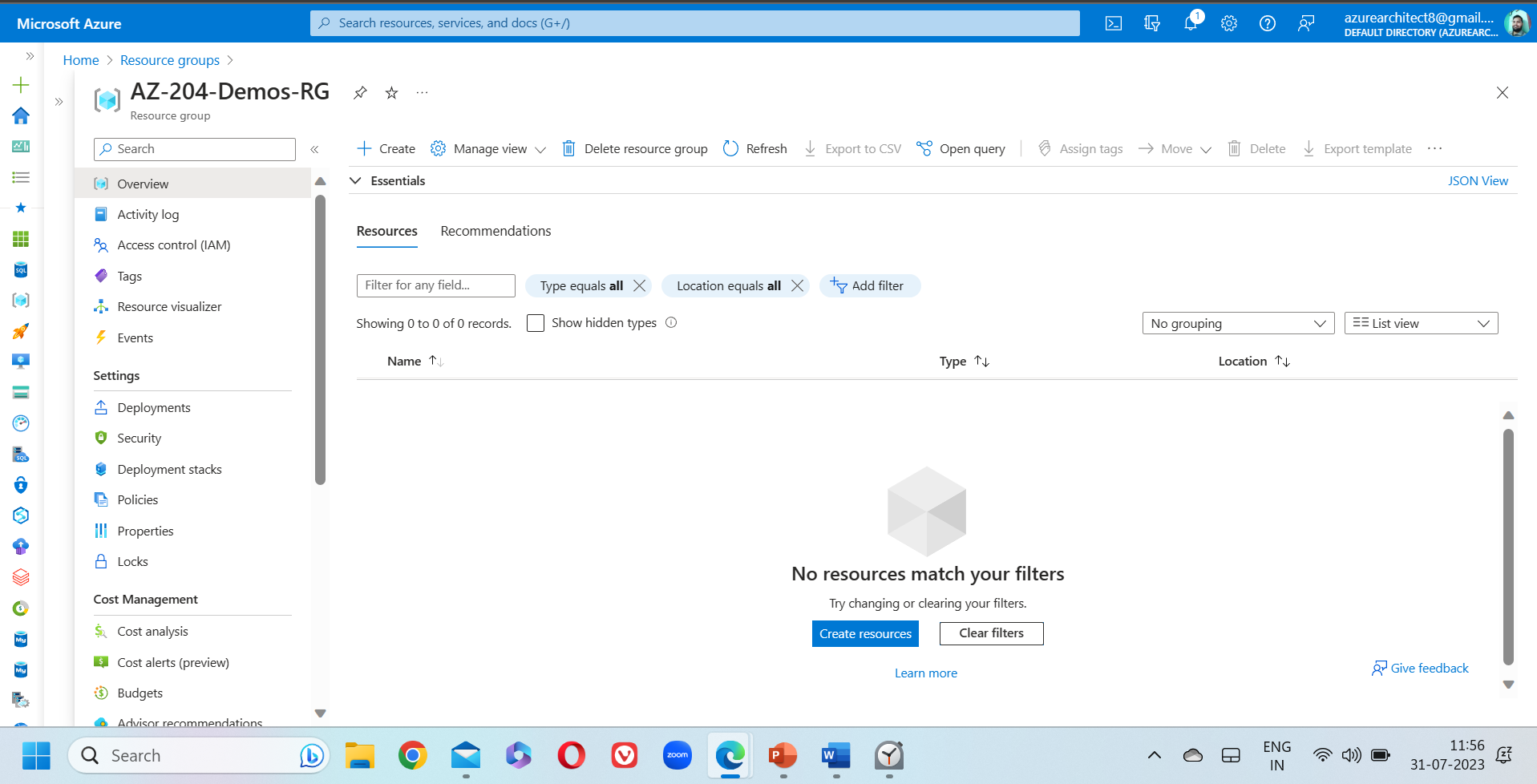




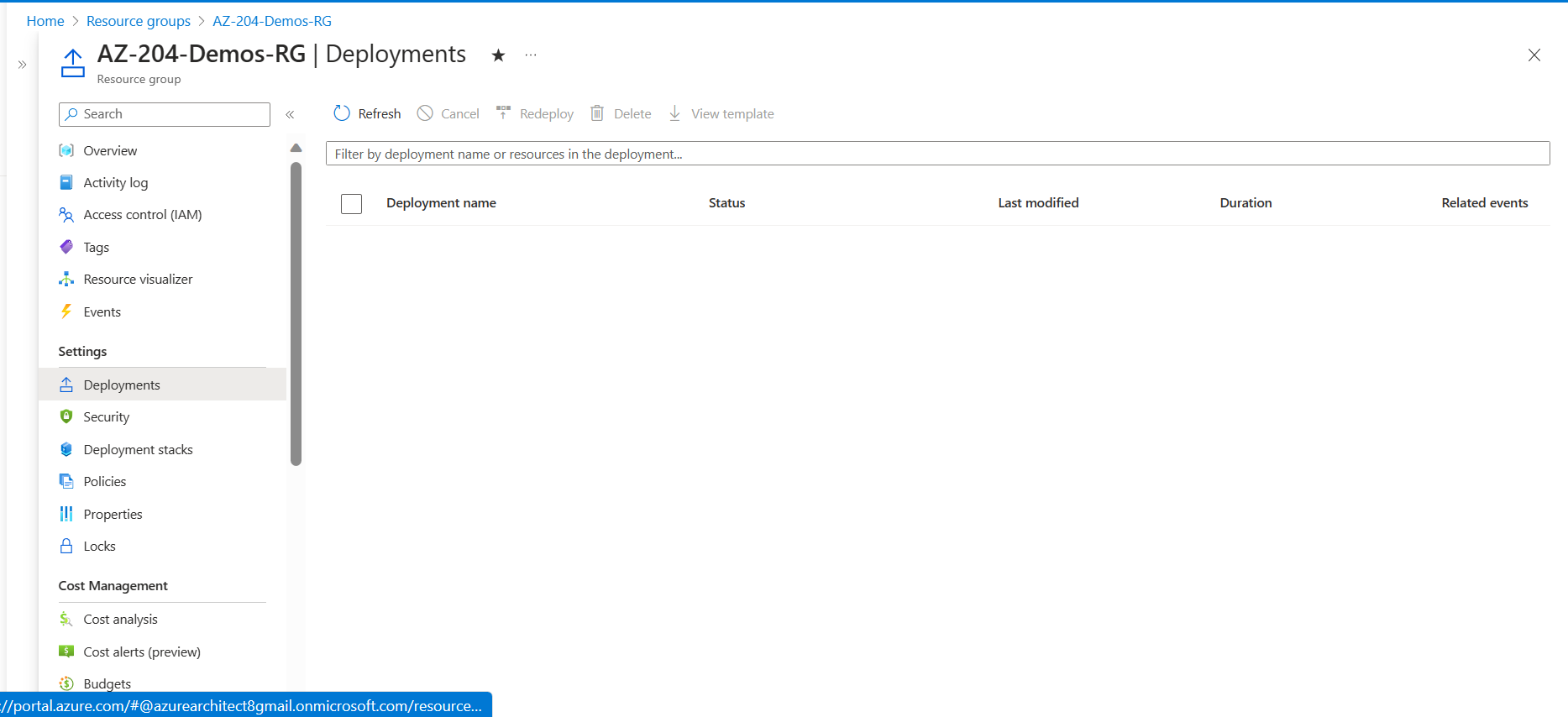


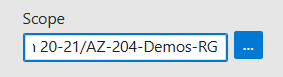
Most frequently used services

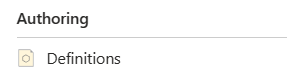


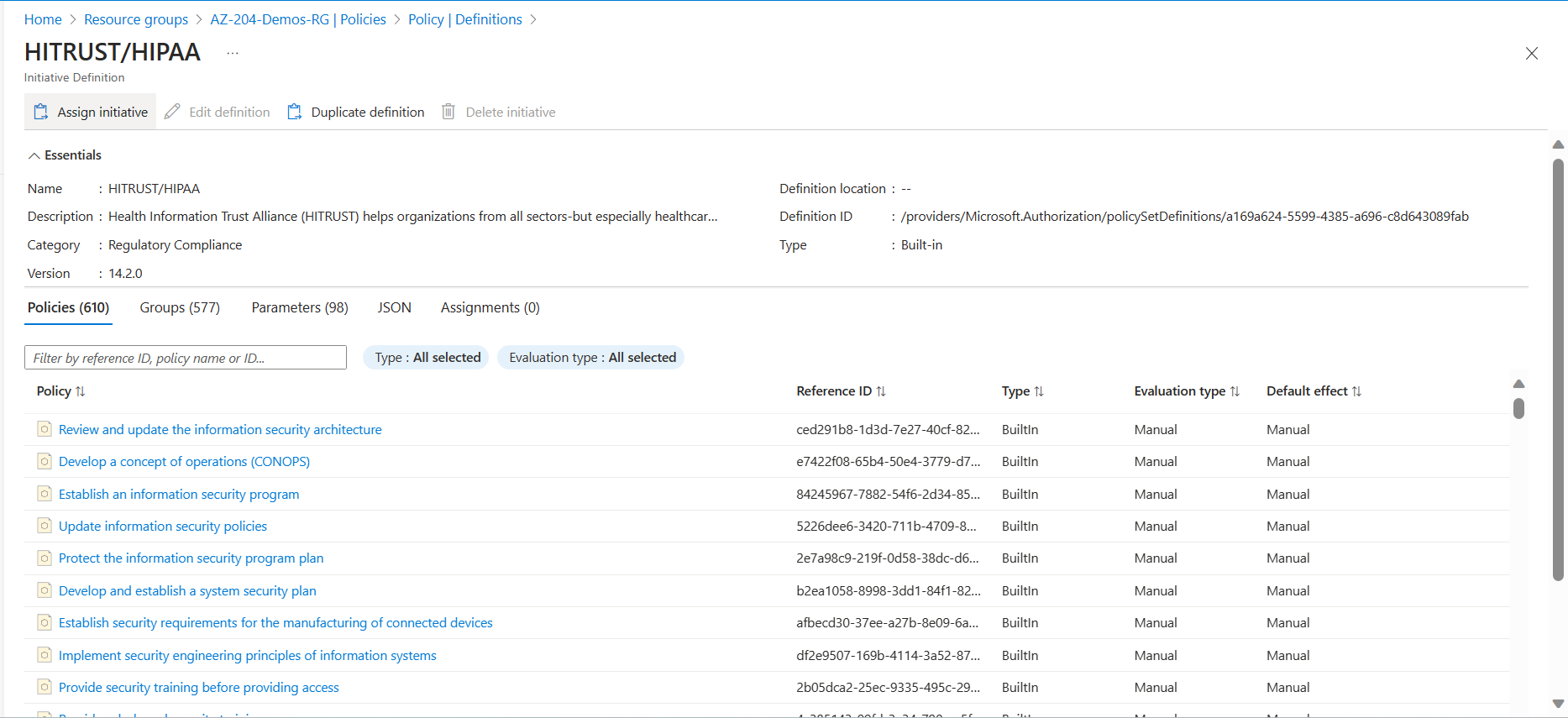






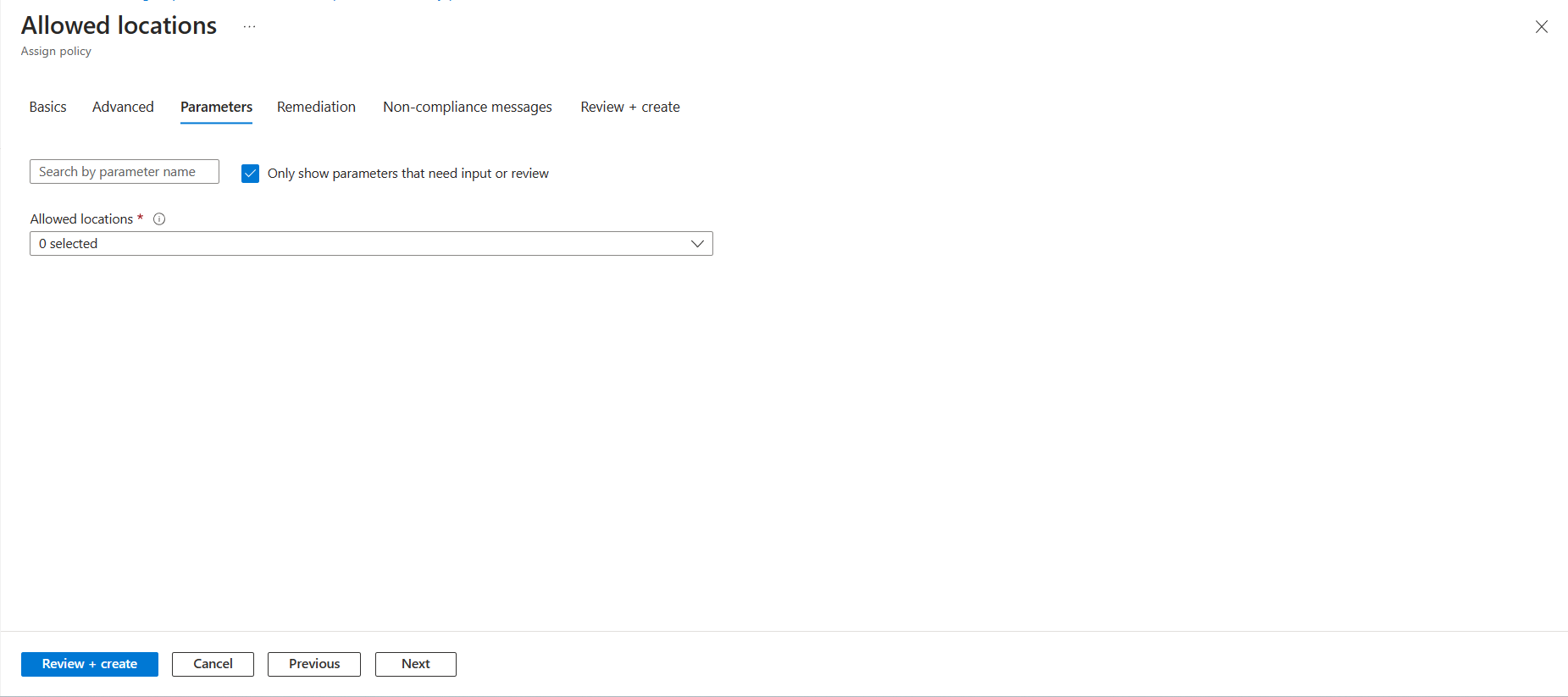






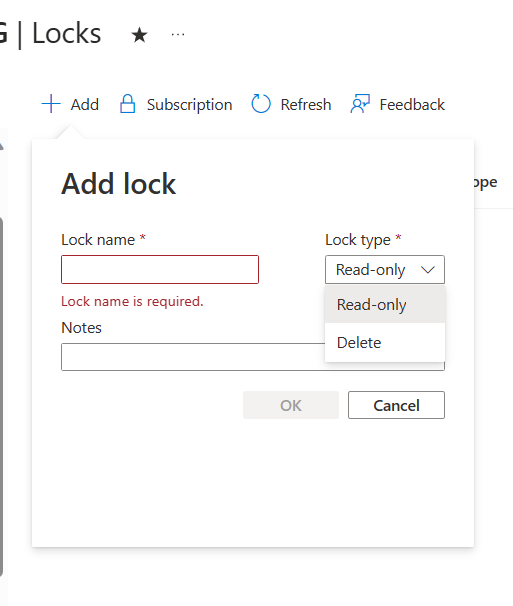


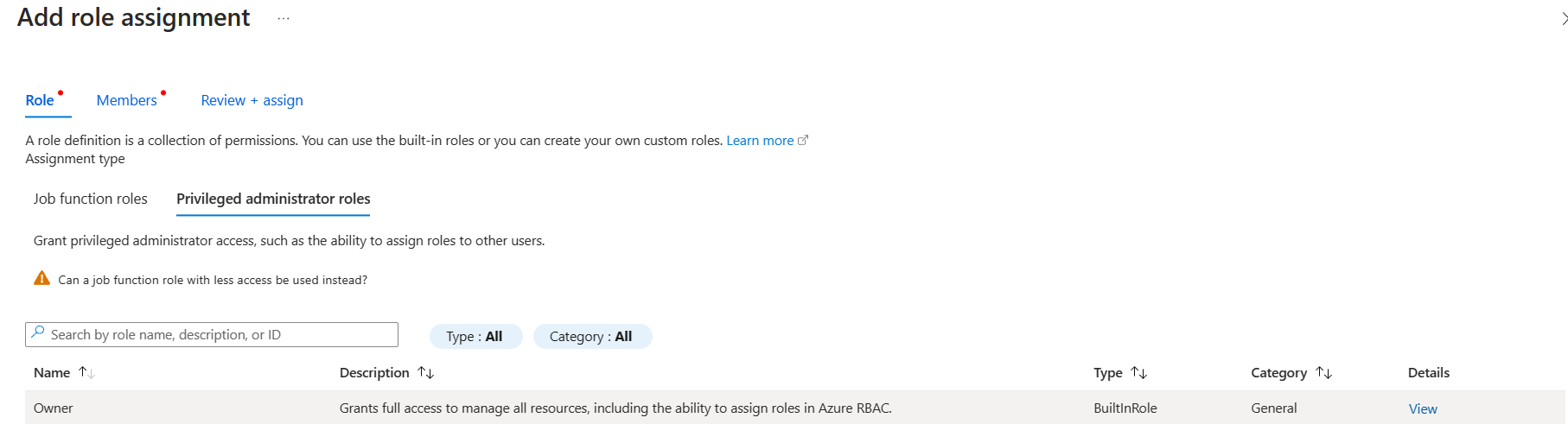


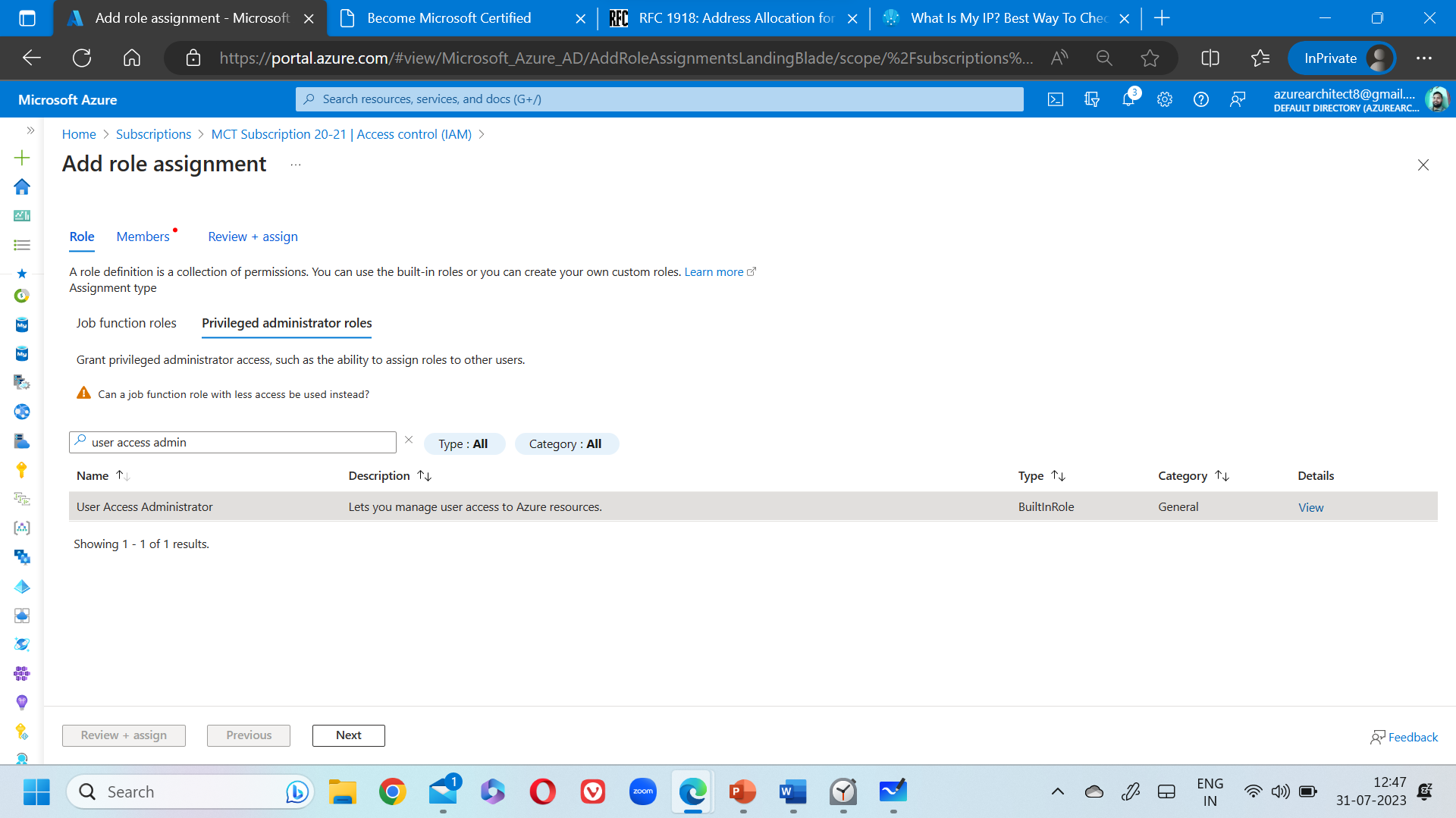


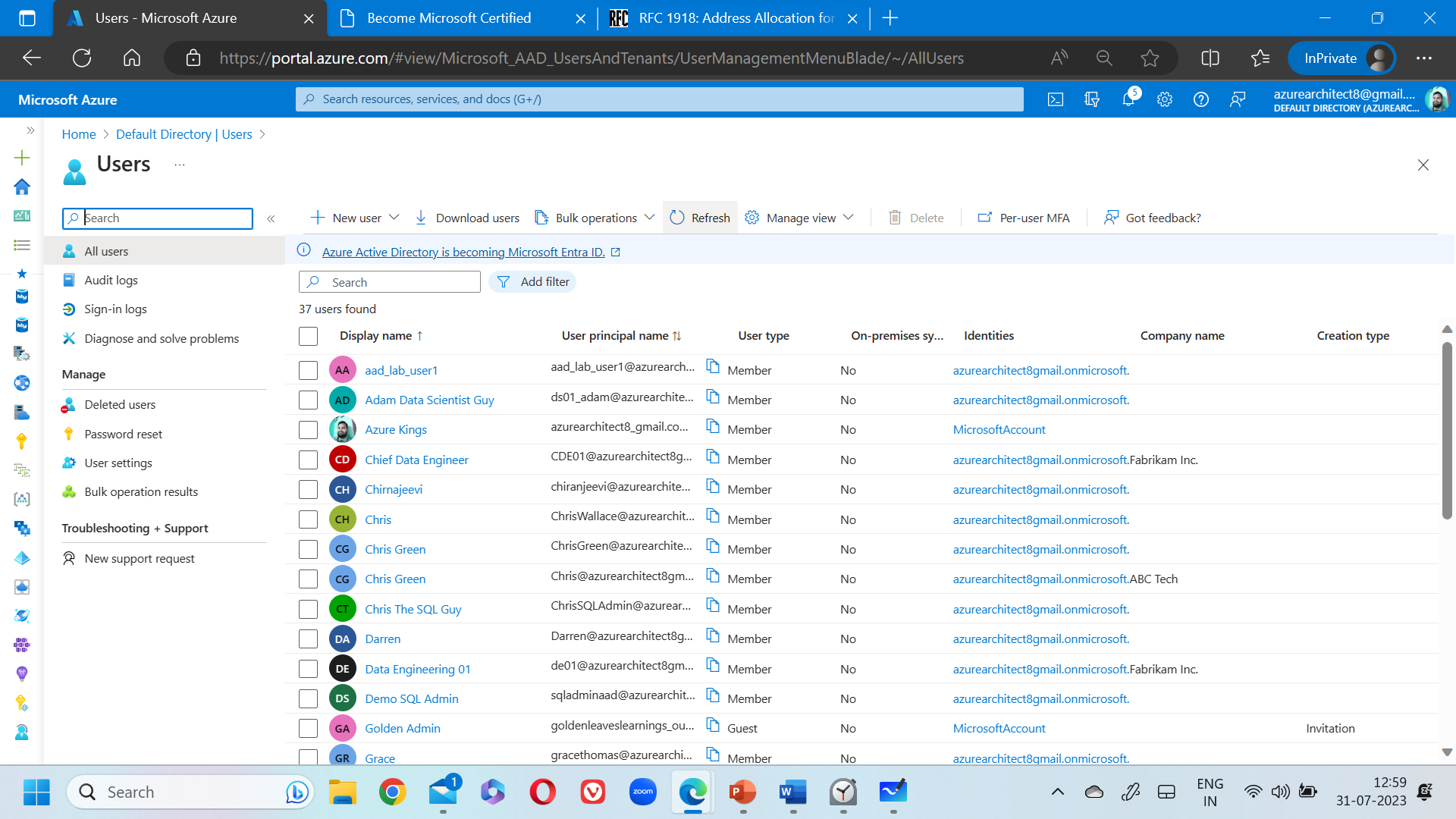


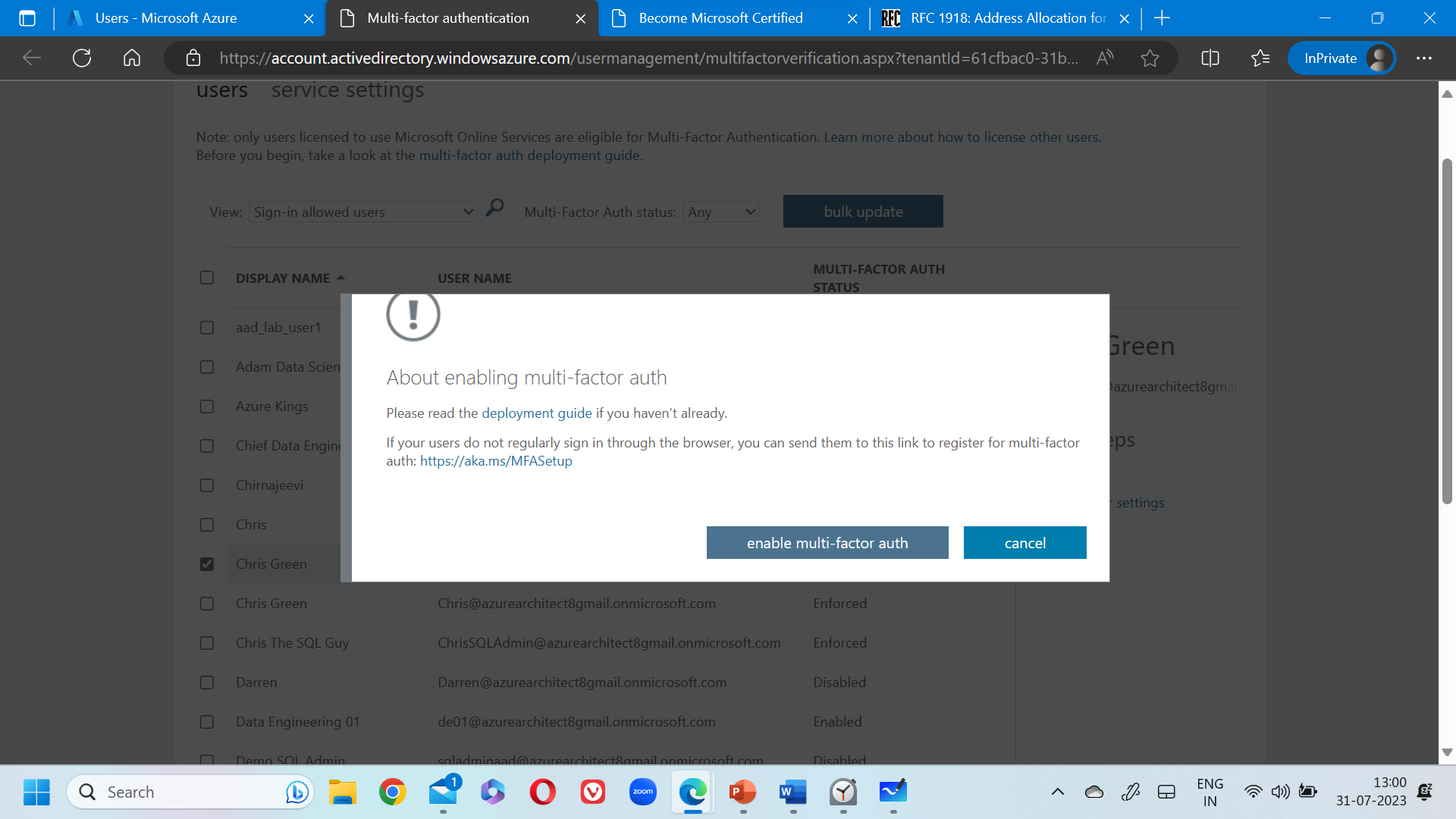
Conformed RG

 Immutable lock – read-only

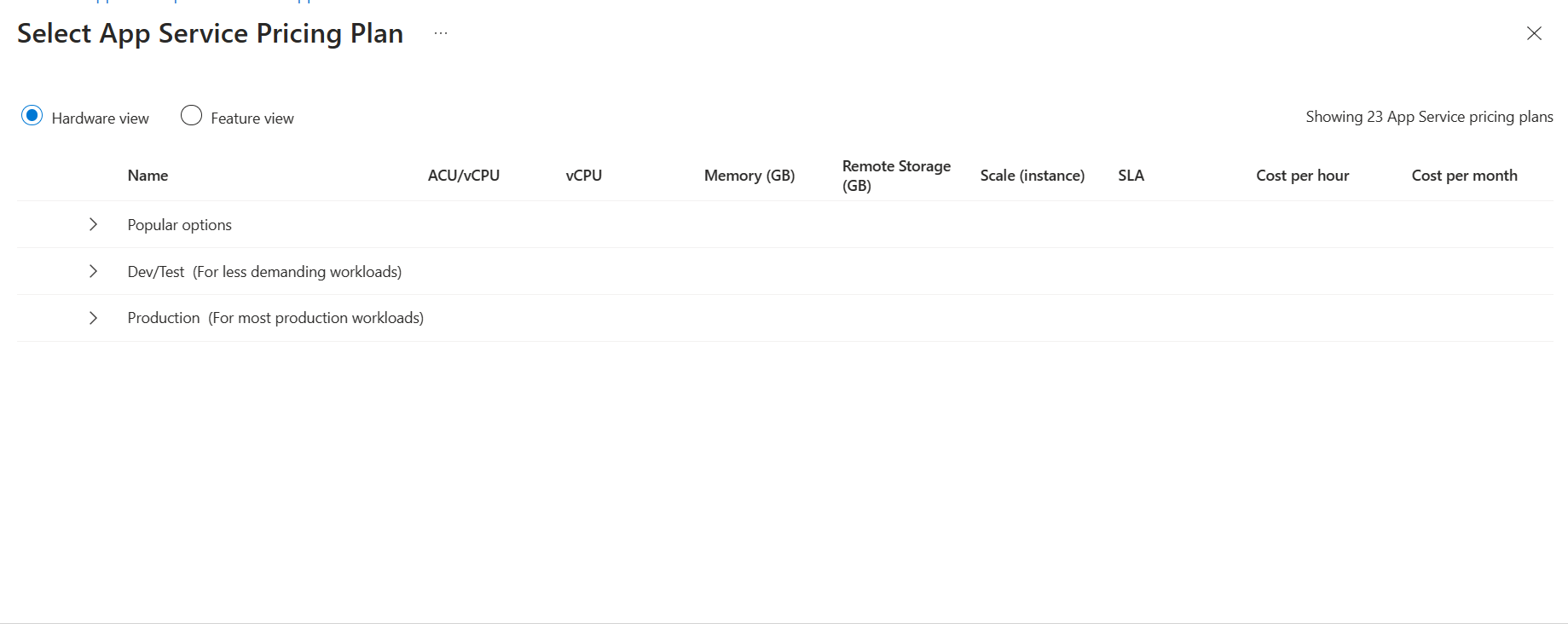


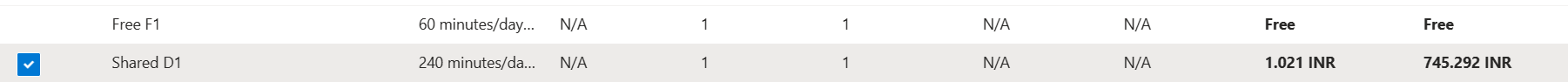


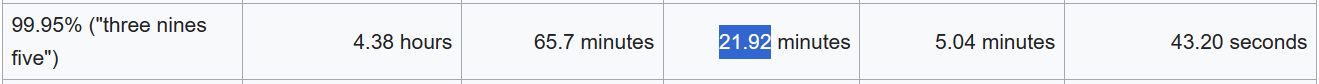






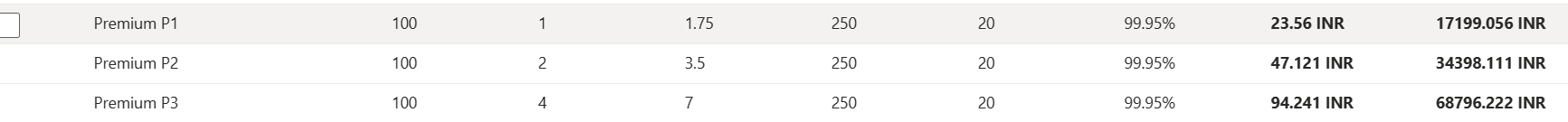


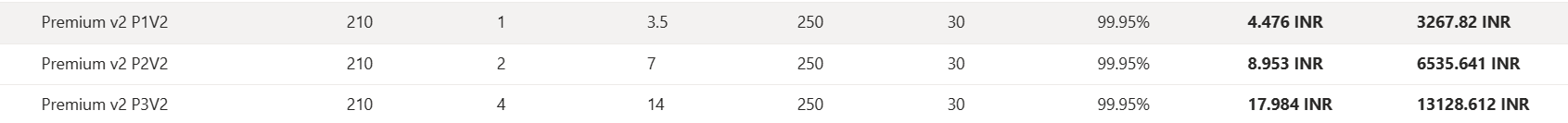


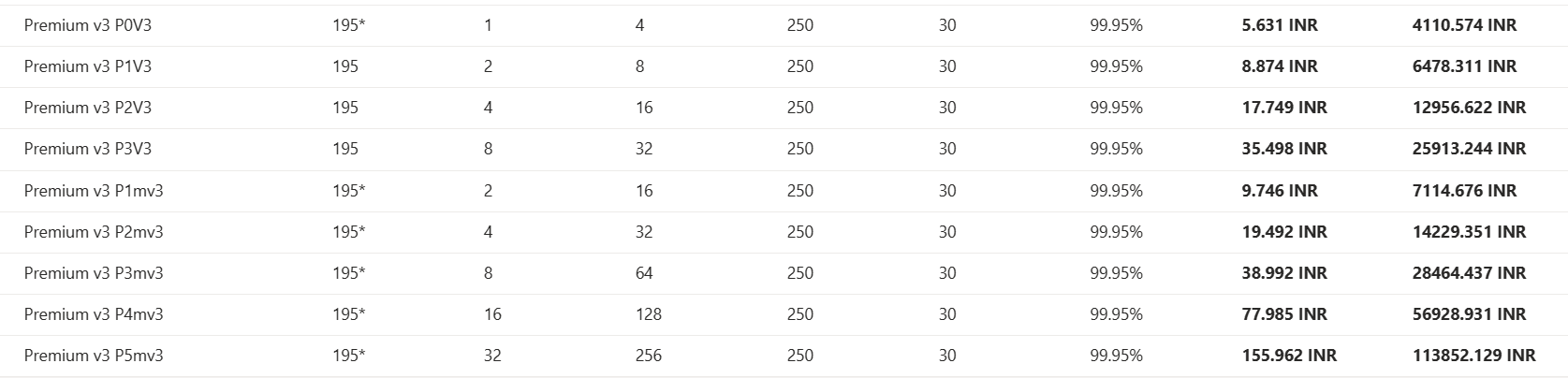












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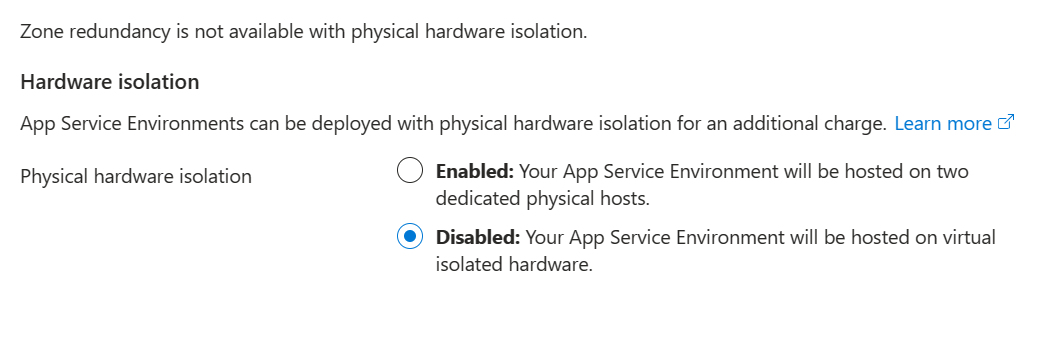
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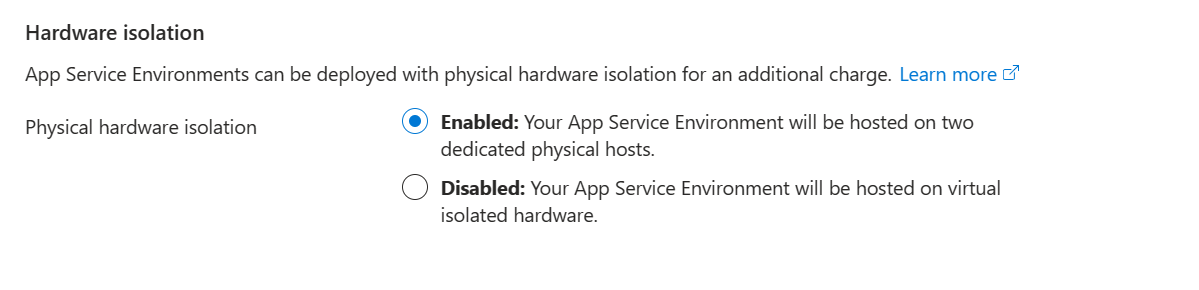
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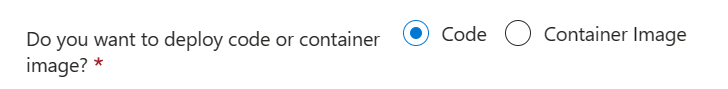
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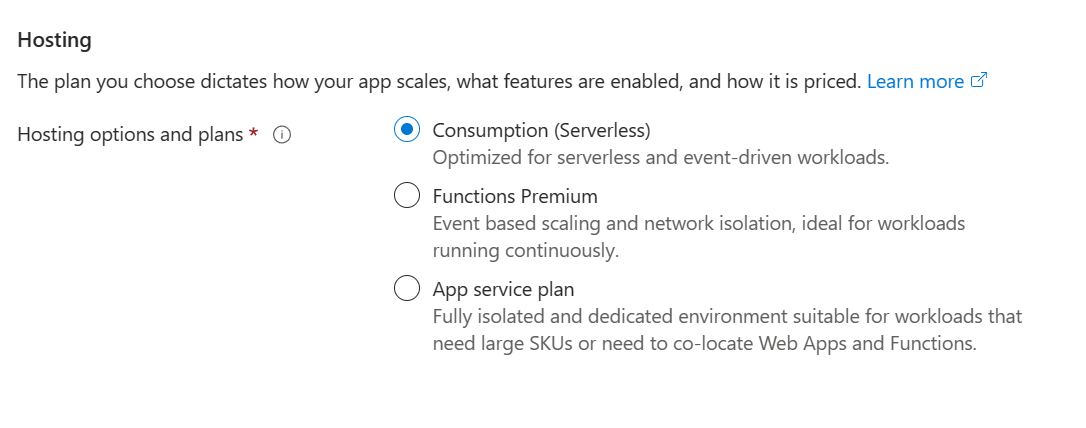


.p.azurewebsites.net

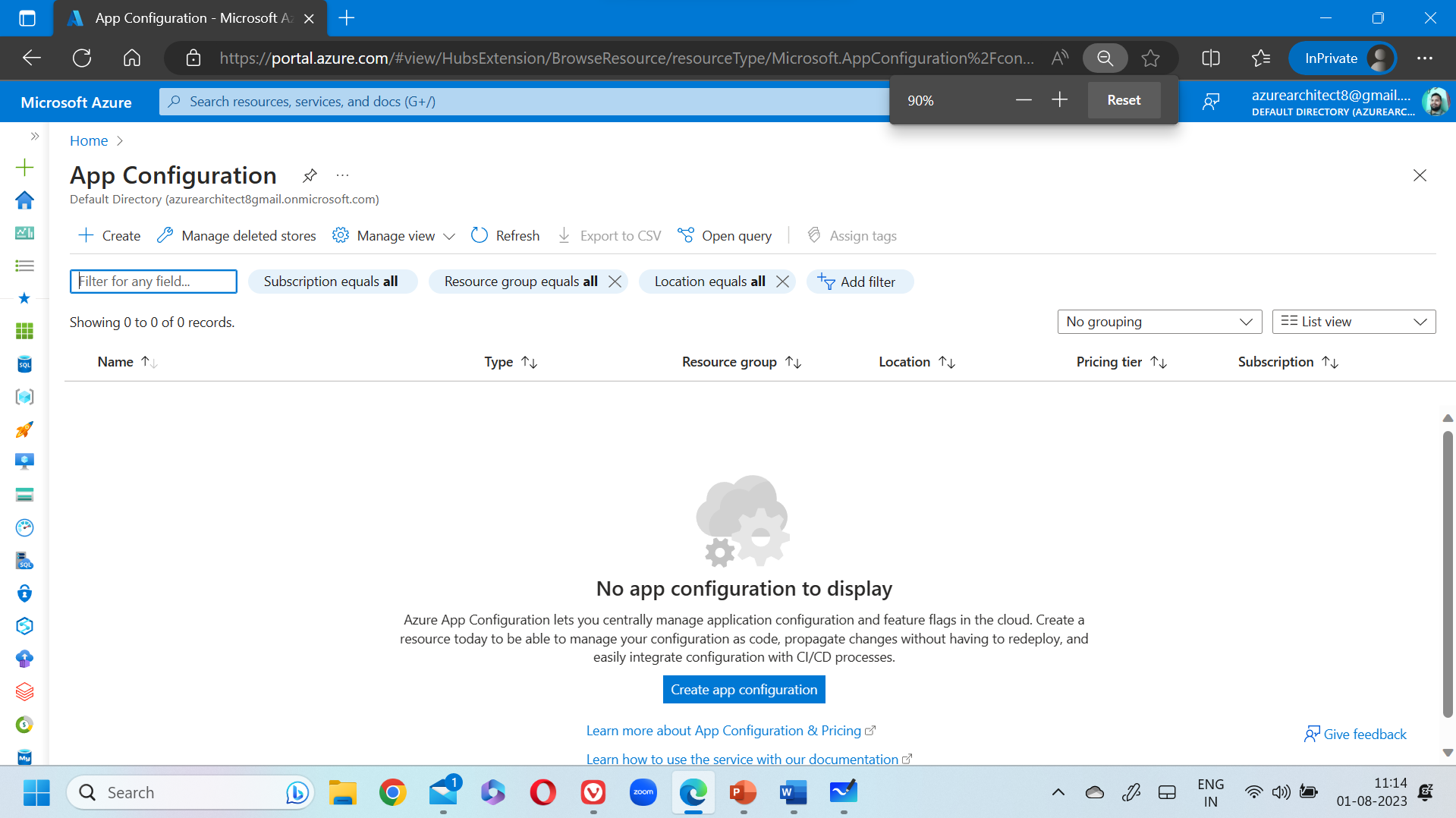




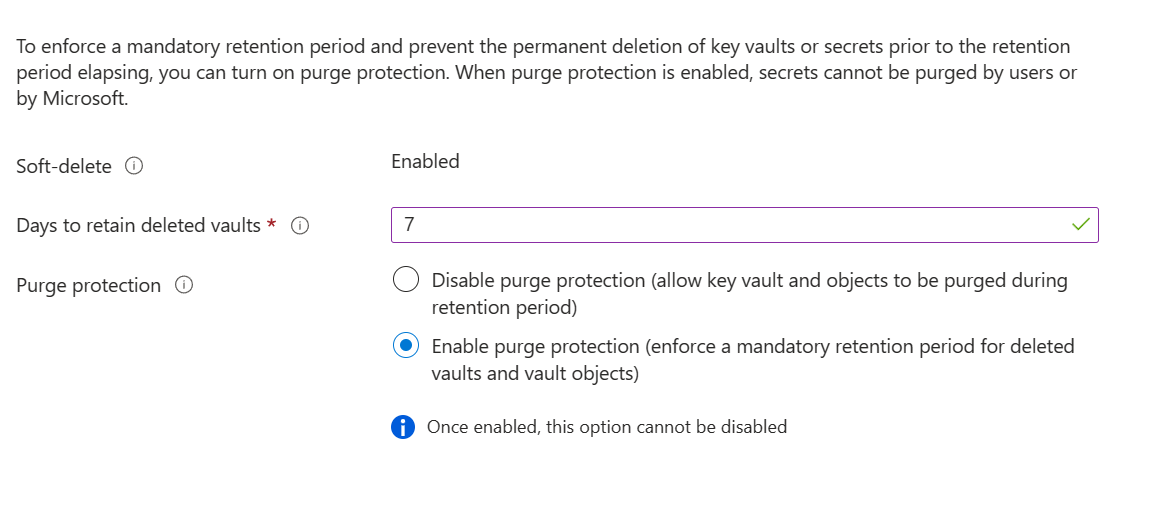


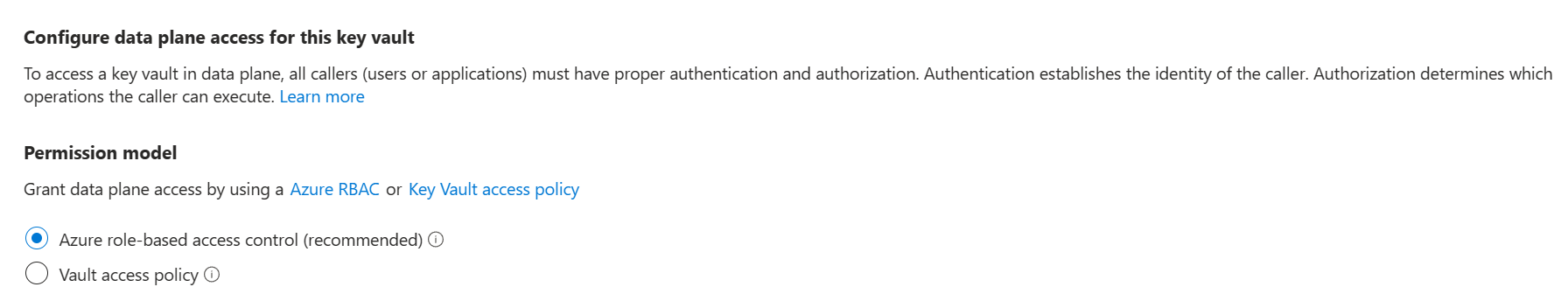


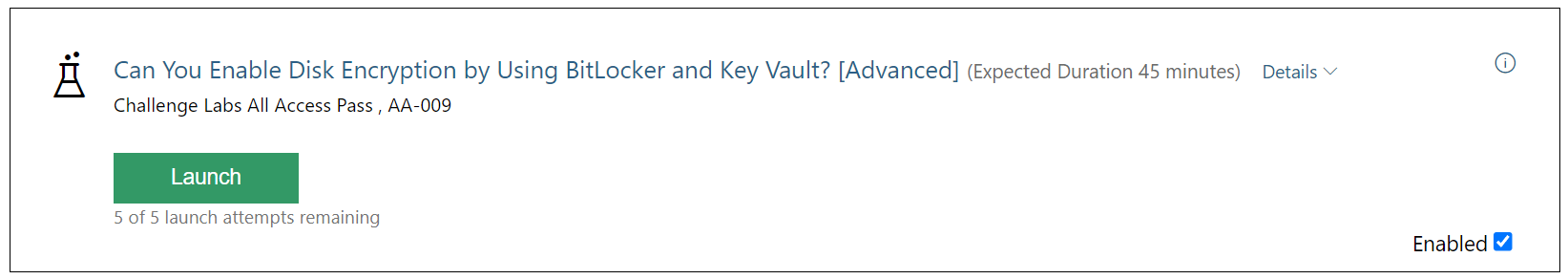
Alh.learnondemand.net

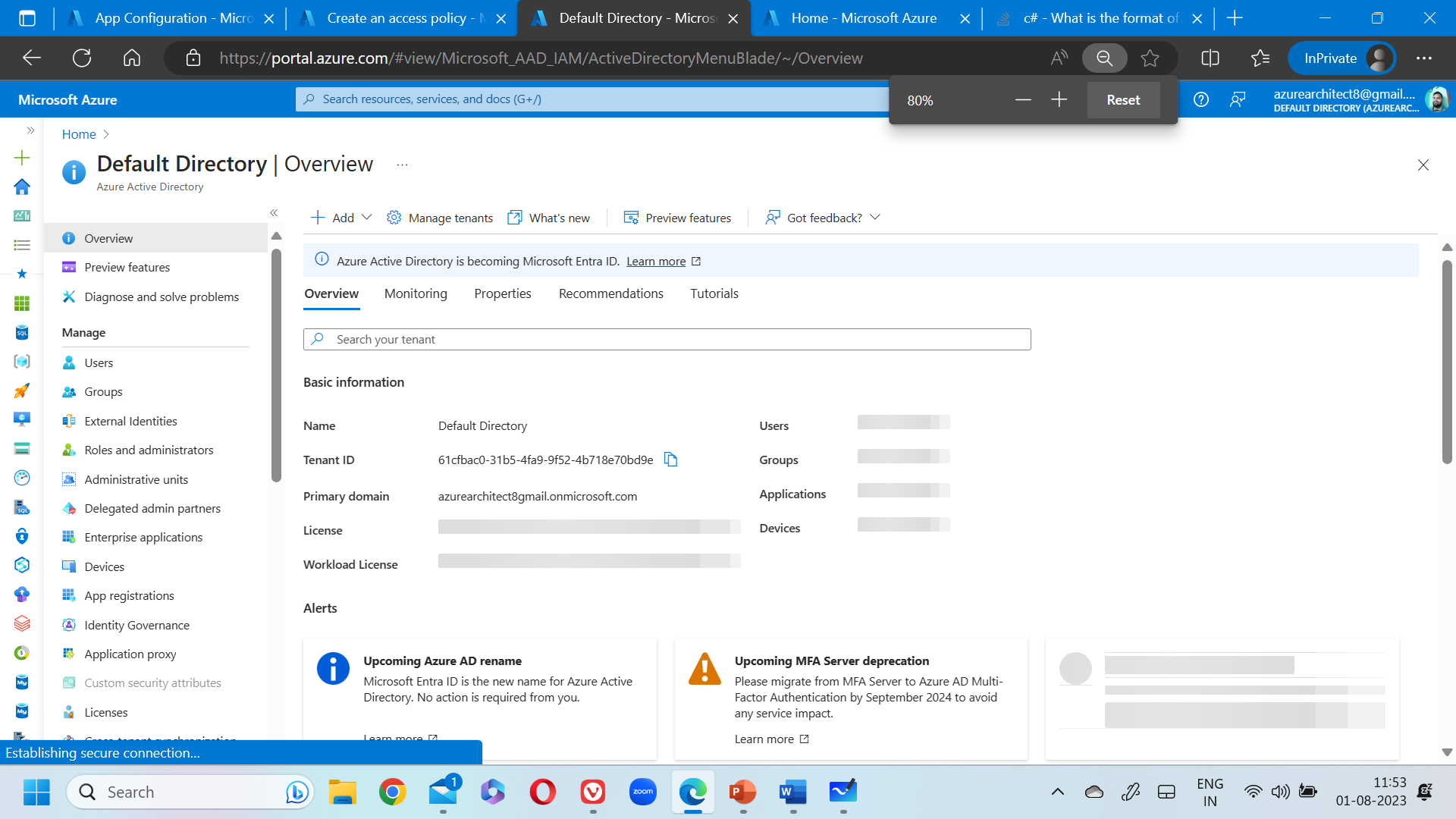




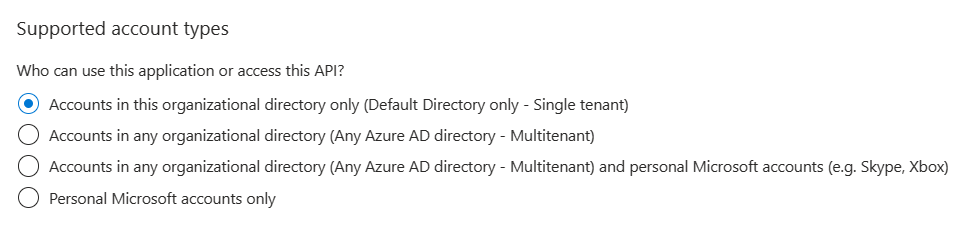












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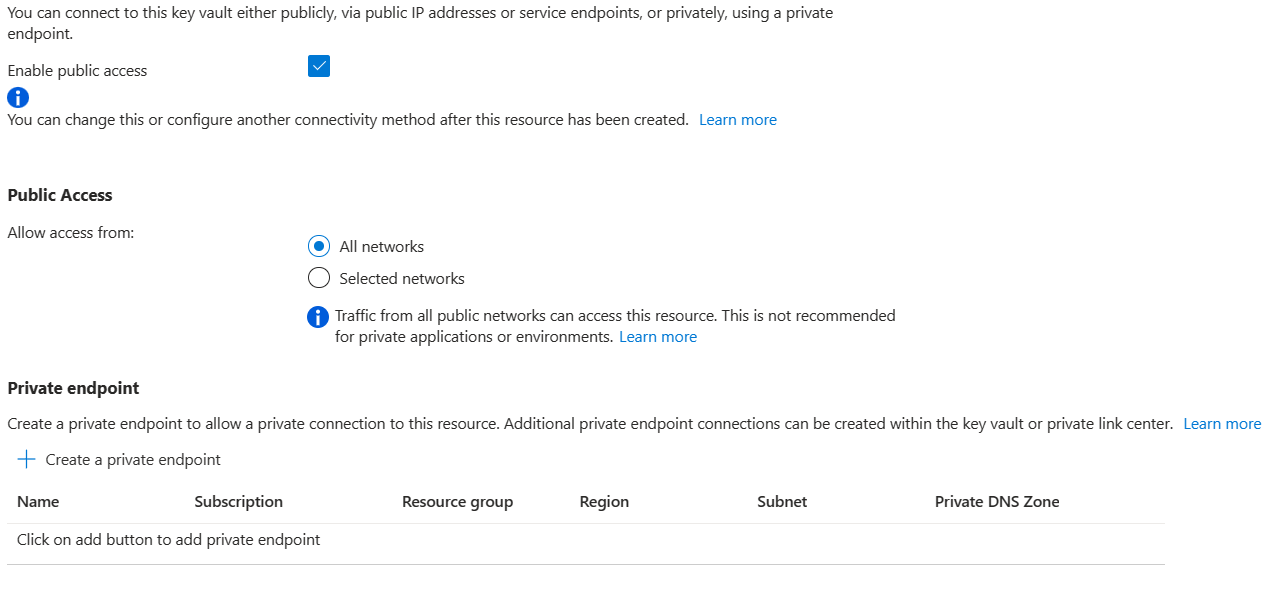
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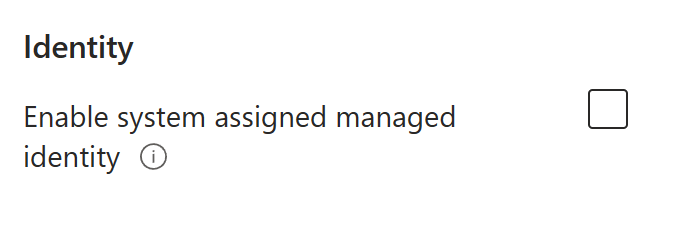
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password

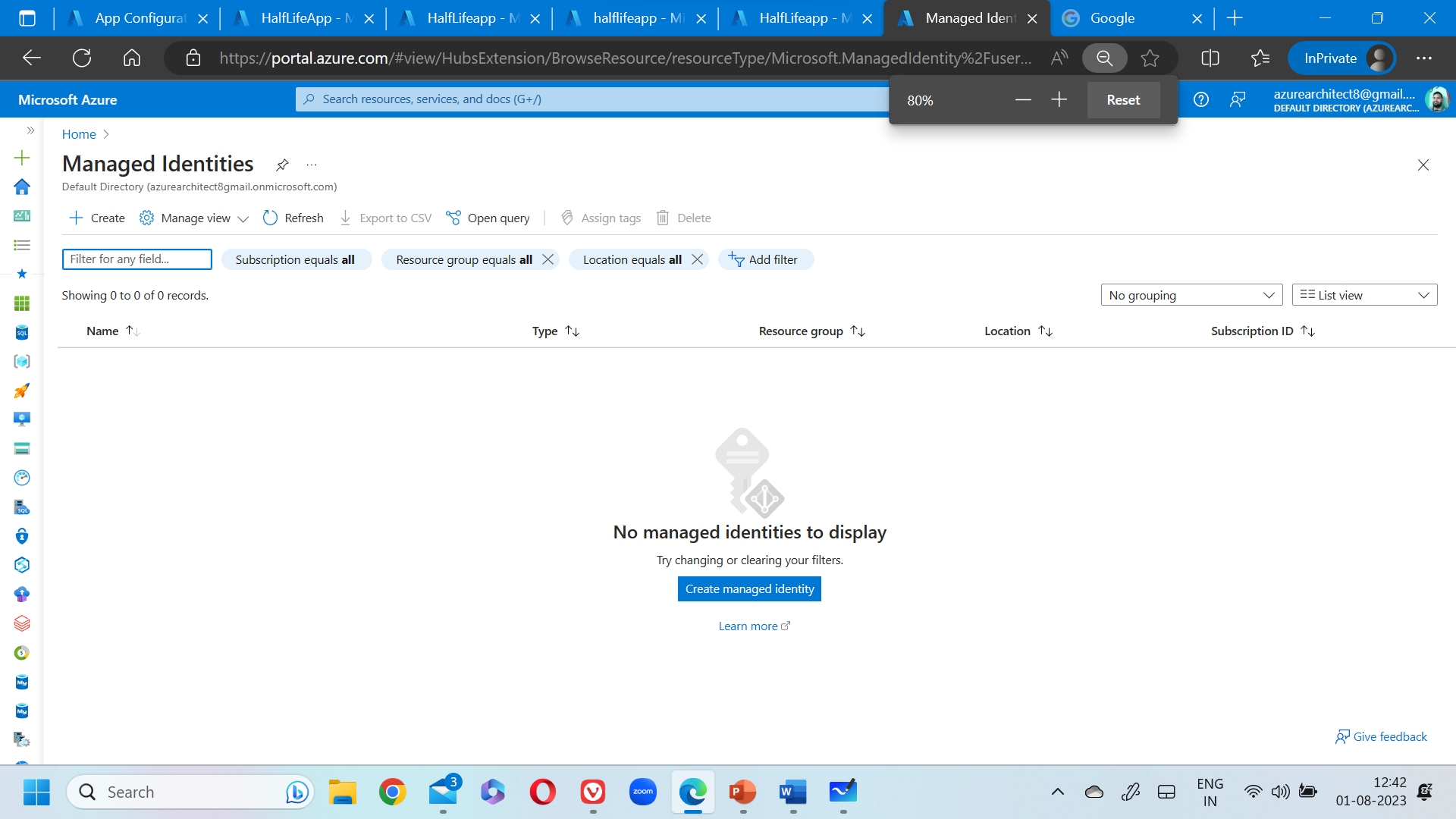
[Azurearchitect@gmail.com](mailto:Azurearchitect@gmail.com)

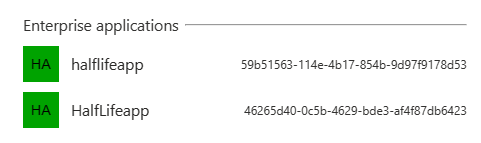
Password











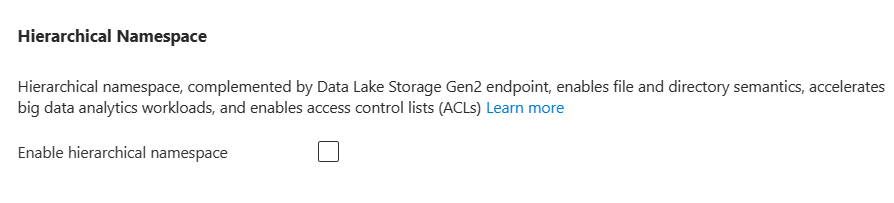
Do not use this 

1. Identify the deployment target of the app. Eg: - Function App.
2. The deployment target should have managed identity (system/user-assigned).
3. Go to the Azure service to which the code running on deployment target needs access.
4. Go to IAM of the Azure service and give a proper role to the managed identity(s/u) of the function app.
5. Store product images for showing them on web pages: serving blobs 🡪 SA without HNS {blob storage}: no analysing. {Total cost of ownership increases.} -🡪 upgraded 🡪 data lake.
6. Store product info for showing on right pane beside product photo
7. Store orders of the customers
8. Store images for brand logo detection in the image: analysing blobs 🡪 SA with HNS {data lake} FYI: serving

Premium SSD -🡪 Block Blobs 🡪 images, videos, pdf, docx, videos, sound files, logs{append blobs} i.e. multimedia content.

Page Blobs 🡪 virtual hard disk file .vhdx file of your VM

Advanced Log Analytics 🡪 LAWS + Application Insights + Azure Data Explorer Cluster (KQL query)





<https://storageaccountdemo342984.blob.core.windows.net/>

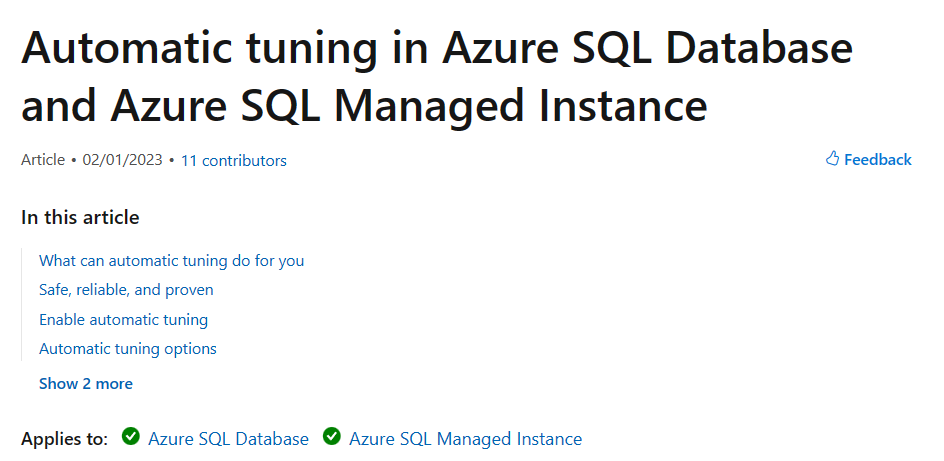
wasbs driver 🡪 windows azure storage blob ssl

<https://storageaccountdemo342984.dfs.core.windows.net/>

abfss 🡪 azure blob file system ssl

Azure SQL

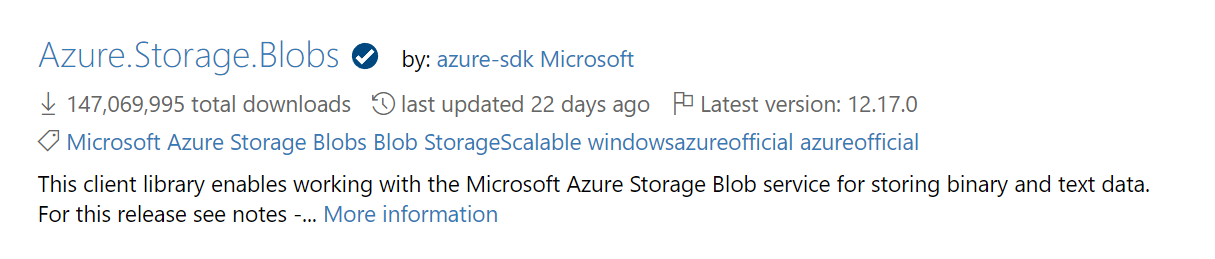
1. SQL VM IaaS : Server
   1. If I want to install any other software along with SQL server.
   2. All the engines of SQL server i.e., database engine, reporting engine, analysis engine, integration engine, ML service engines are used in the project.
   3. Risk mitigation of migration of large databases.
   4. VM has special family which reducing cost i.e., memory optimized VM higher CPU/memory ratio. [Constrained Core VMs]
   5. High Availability: Always on FCI Failover Cluster Instances
   6. Disaster Recovery: Always-On Distributed Availability Group
   7. Auto patching of databases: CUs Cumulative Updates / Service Packs.
   8. Automatic Tuning: Index, Statistics management.
2. SQL Managed Instance PaaS : Server
   1. If I want to install any other software along with SQL server.
   2. All the engines of SQL server i.e., database engine, reporting engine, analysis engine, integration engine, ML service engines are used in the project.
   3. Risk mitigation of migration of large databases.
   4. VM has special family which reducing cost i.e., memory optimized VM higher CPU/memory ratio. [Constrained Core VMs]
   5. High Availability: Always on FCI Failover Cluster Instances
   6. Disaster Recovery: Always-On Distributed Availability Group
   7. Auto patching of databases: CUs Cumulative Updates / Service Packs.
   8. Automatic Tuning: Index, Statistics management.



Small Managed instance for dev/test workloads 2Vcore instances i.e. sql managed instance pools.

1. SQL Database: Database / logical server
   1. Cloud native apps Greenfield
   2. If I want to install any other software along with SQL server.
   3. All the engines of SQL server i.e., database engine, reporting engine, analysis engine, integration engine, ML service engines are used in the project.
   4. Risk mitigation of migration of large databases.
   5. VM has special family which reducing cost i.e., memory optimized VM higher CPU/memory ratio. [Constrained Core VMs]

DAY 4



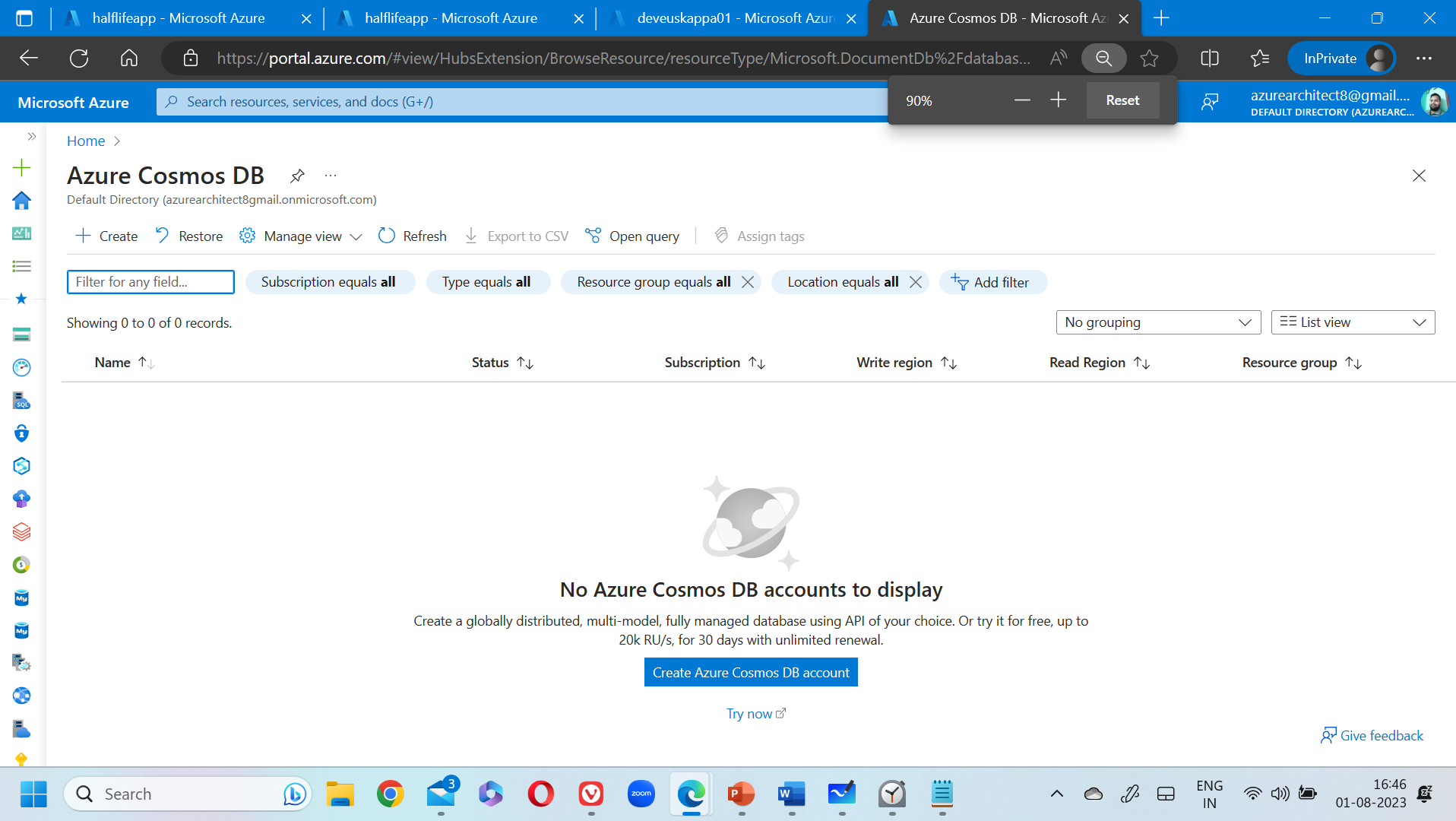
Process of Use

Three proxy client objects

1. BlobServiceClient: connect to your storage account.
2. BlobContainerClient: Connect to existing container in the storage account or create a new container and connect to new container.
3. BlobClient: All operations to execute on blobs.

100 calls 🡪 99 calls 🡪 10-15ms each

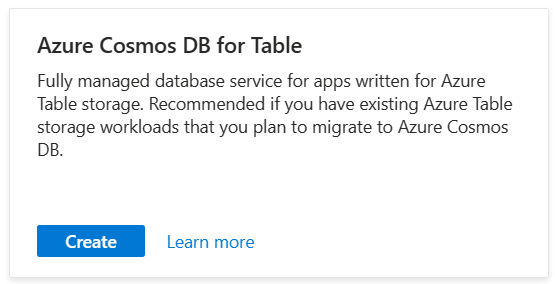
Cosmos DB provides a guarantee that operations (CRUD) on your data will be responded in 10-15 ms for 99 percentiles of operations.



First create a cosmos DB account.

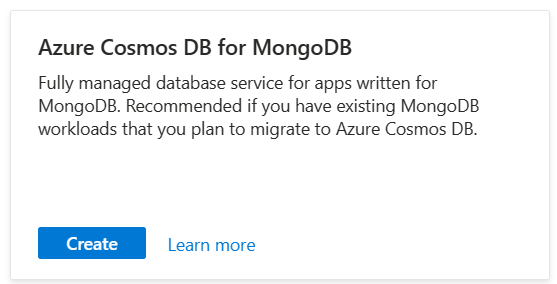
1. Flat key value pairs





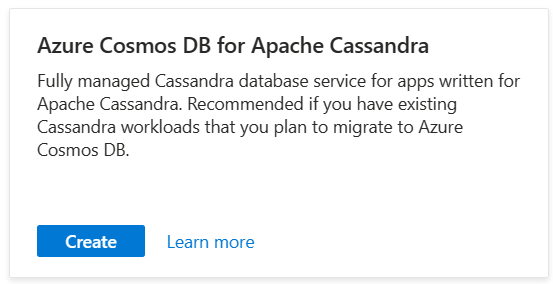
1. Nested K-V pairs Documents. – JSON docs



MEAN/MERN

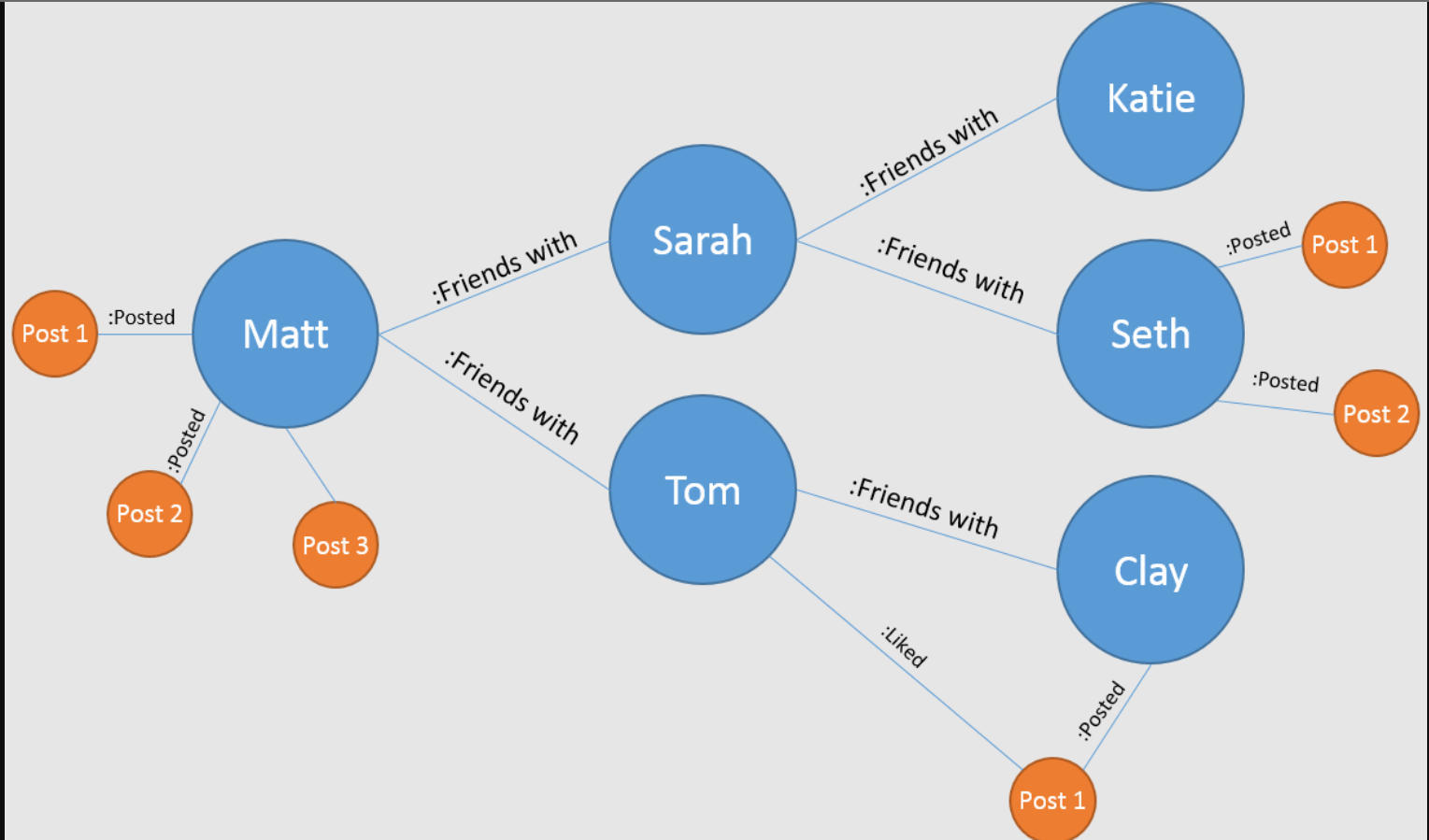


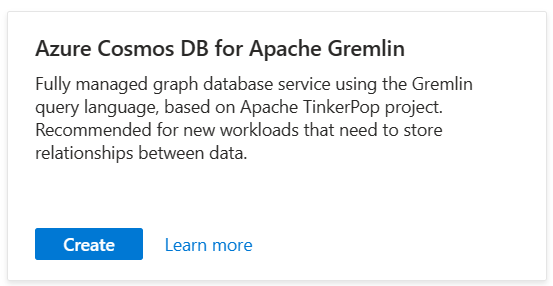
1. Column Families

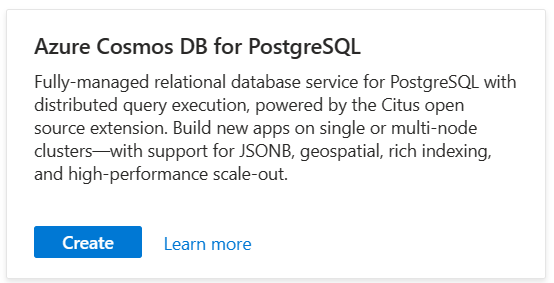


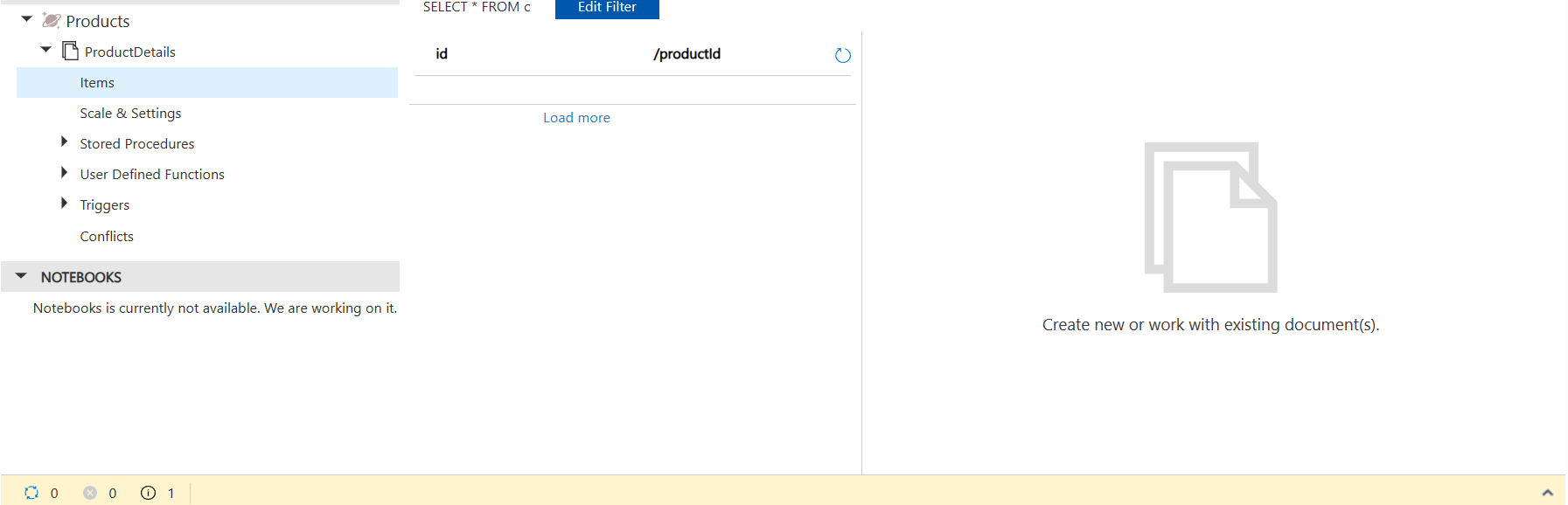


1. Graph database













Day 3



Geo-redundancy read sla 🡪 99.999%

Multi-region write -🡪 replica master r/w 99.999% write SLA

Five levels of consistency control

Strong 🡪 Bounded Staleness 🡪 **Session {default}** 🡪 Consistent prefix 🡪 Eventual

Strong 🡪 linear serializability, all reader read the latest write in the same order.

Replica 1 US🡪 write 🡪 Write is finalized 🡪 propagated to other replicas 🡪 Replicas {2..n} 🡪 read

Consistency high but Data Availability is reducing.

Cost is increasing.

Eventual consistency -> In the absence of further writes, all replicas will see the last write eventually.