Microsoft Azure Mini Project

-by Shivam Pratap

Open INDEX

Aim: when new file is added to 'BLOB' it will transfer that file to 'FILE SHARE' and get an EMAIL with the CONTENT of the File and get SMS on PHONE that 'new file is added' and using Storage Sync Service the on-premises Client can view the same file which is added to blob.

Overview

So, there's a client who wants to access the internet and enter the Azure portal. When they add a blob file, a trigger will be activated in a Logic App. The Logic App will then transfer the file to Azure File Storage so that the on-premises server can also access the files added in the blob. To establish this real-time file synchronization, Azure Storage Sync Services are used to connect the on-premises server and Azure File share unidirectionally.

After the blob content is transferred to the file share, the Logic App calls an API, which sends an email notifying the content that was added or modified. Additionally, a third-party service called Twilio is used to send an SMS to the client's phone indicating that a new blob file has been added.

To create the on-premises environment, Azure Infrastructure as a Service (IaaS) is employed, utilizing a virtual machine (VM) within a subnet of a virtual network. Another subnet in the same virtual network holds a firewall. Incoming public requests first pass through the firewall, which only allows entry to the virtual network if firewall rules are satisfied. The virtual machine is connected to the firewall.

Inside the virtual machine, Azure Storage Sync Services files are installed to establish a connection with Azure File Share. A new disk driver is attached to the PC folder for this purpose. Additionally, Azure Monitor alerts are set up to trigger a warning alert when CPU usage exceeds 50%.

Project Step by Step Video Created by Shivam Pratap: YouTube Link

Project resource group templet link: Google Drive Link

Services Used

1. Logic App

Azure Logic App is a Microsoft cloud-based service that provides a visual way to create and execute workflows and integrations between different systems and services. It allows you to automate business processes, workflows, and data integration across various applications, services, and platforms. Logic Apps are built using a graphical designer, where you can define a series of steps and actions, known as triggers and connectors, to achieve a desired outcome.

2. Azure Blob Storage

Azure Blob Storage is a cloud-based object storage service provided by Microsoft Azure. It offers a scalable and secure solution for storing vast amounts of unstructured data, such as images, videos, documents, logs, and any other type of file.

3. Azure File Share

Azure File Share is a cloud-based file storage service provided by Microsoft Azure. It allows you to create and manage network file shares that can be accessible from multiple virtual machines (VMs) or other Azure services.

4. Azure Storage Sync Services

Provide synchronization of files and folders between on-premises servers and Azure storage. It allows you to replicate data between your local file servers and Azure File Shares or Azure Blob storage.

5. Virtual Networks

A virtual network acts as a logically isolated network within a public cloud environment, allowing you to provision and manage your own virtual network configuration.

6. Virtual Machine

It’s a physical computer system, with its own operating system and applications running on it. It enables users to run multiple independent instances of a computer system on a single physical machine or across multiple physical machines.

7. Firewall

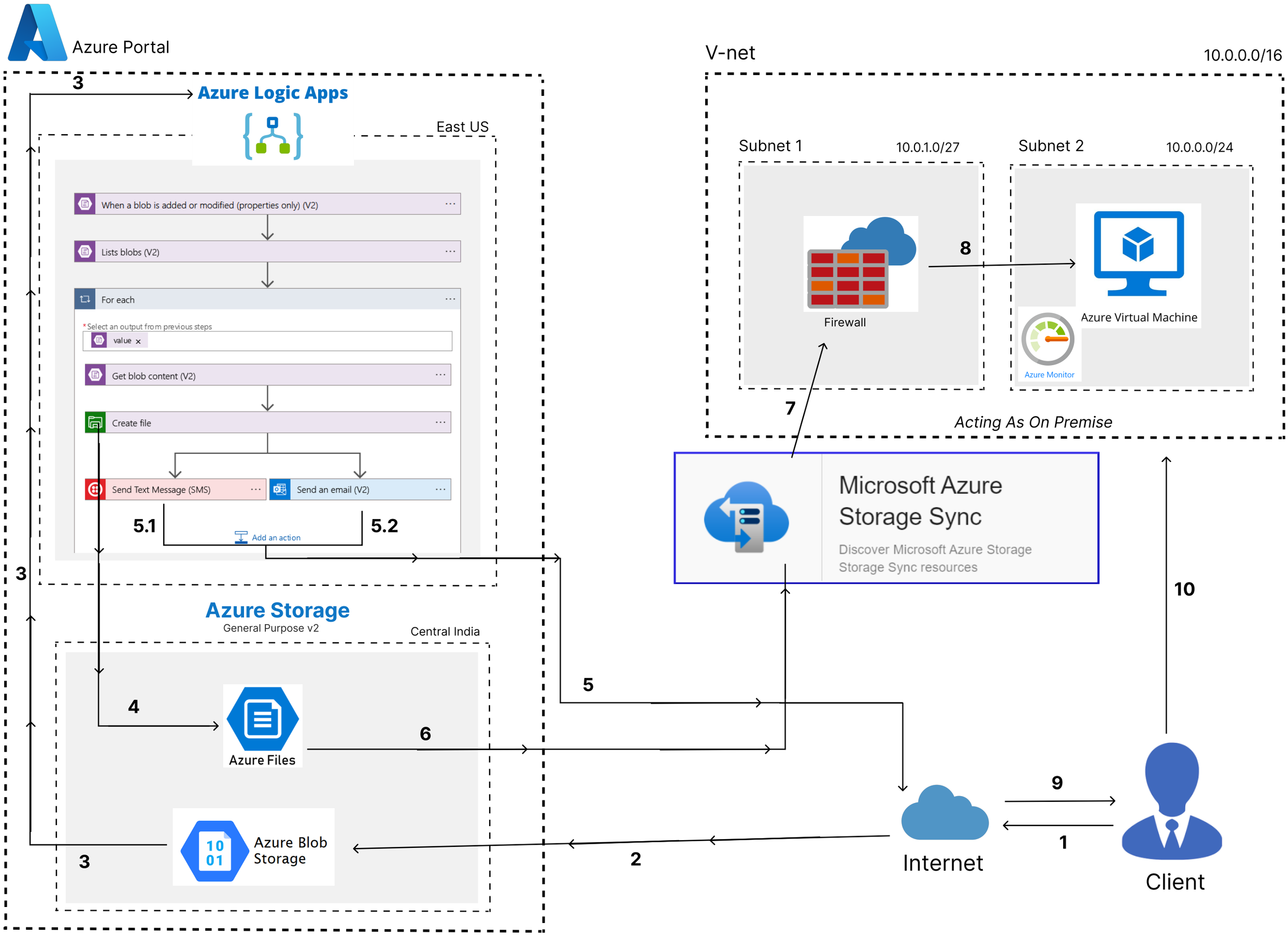
Azure Firewall is a cloud-based network security service provided by Microsoft Azure. It acts as a centralized firewall solution for protecting virtual networks in Azure. Azure Firewall allows you to create and enforce network and application-level access control policies to secure your Azure resources.

8. Monitor-Alerts

Monitor Alerts is a service provided by Microsoft Azure that helps you monitor and respond to changes in your Azure resources. It allows you to set up proactive notifications and automated actions based on metric values, log search queries, and various other conditions.

9. Twilio (3rd party)

Twilio is a cloud communications platform that enables businesses to easily integrate messaging, voice, and video capabilities into their applications. It provides a set of APIs and tools that. Developers can use it to build and manage communication features in their software applications.


Azure Portal
V-net
10.0.0.0/16
Azure Logic Apps
East US
When a blob is added or modified (properties only) (V2)
Lists blobs (V2)
For each
*Select an output from previous steps
value
Get blob content (V2)
Create file
Send Text Message (SMS)
Send an email (V2)
Add an action
Subnet 1
10.0.1.0/27
Subnet 2
10.0.0.0/24
Firewall
Azure Virtual Machine
Azure Monitor
Acting As On Premise
Microsoft Azure Storage Sync
Discover Microsoft Azure Storage Storage Sync resources
Azure Storage
General Purpose v2
Central India
Azure Files
Azure Blob Storage
Internet
Client
1
2
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Flow chat explanation

A client will access the internet and enter the Azure portal. When the client adds a blob file, it triggers a Logic App. The Logic App then transfers the file to Azure File storage, allowing the on-premises server to access the added files in real time. Azure Storage Sync Services is utilized to establish a unidirectional connection between the on-premises server and Azure File share, ensuring file maintenance. Once the blob content is transferred to the file share, the Logic App calls an API, triggering an email containing the added or modified content. Additionally, a third-party service called Twilio sends an SMS notification to the user's phone indicating that a new blob has been added. To create the on-premises setup, Azure Infrastructure as a Service (IaaS) is employed, using a virtual machine within a subnet of a virtual network. Another subnet within the same virtual network contains a firewall, which filters incoming public requests. Only requests that satisfy the firewall rules are allowed into the virtual network. Lastly, the virtual machine is connected to the firewall. Inside the virtual machine, Azure Storage Sync Services is installed, establishing a connection with Azure File share. A new disk driver is attached in the PC folder for this purpose. Additionally, Azure Monitor Alert is configured to generate a warning alert whenever the CPU usage exceeds 50%.

1. Client will use internet to access the Azure Portal.

2. Client will Add content to azure Blob storage.

3. A trigger will get activated in Azure Logic App (when new file is Added or Modified)

   Inside Logic App we will make List of Blob

   And then we will create a for Each condition, so that when n number of Blob is added then it will take all the content.

   Then we will take the content of blob and transfer them to new File share

4. All the content of blob gets transferred to file share.

   Then we will get log in to outlook inside the Logic App and we will then write How should we get an Email to our email address

   We also login to Twilio a 3rd party service which is used to send the SMS on phone number.

   So will open the website of Twilio and signup and create account and then Buy a Number and the come to Home page of website we will get ID and token number we will copy it to our azure portal Logic App and create the Api connection between the Twilio and Azure and then we will right the Number to whom we have.

to send messages and messages will be sent to that phone number after all the action of logic app completed successful.

5. Client will get the Email and SMS

6. Azure file share is connected to On-premises and for doing so we have used a service in azure portal and installed that same service in on-premises computer (Azure storage sync)

7. The on-premises have v-net and inside the v-net we have 2 subnets we have use Class A IP4 to give IP to subnets.

   One subnet is only for firewall and other subnet is for Vm1 so when VM1 what to communicate on internet or with other V-net all the content goes through firewall and if it satisfies the condition of firewall then only allow to send the packets of data.

8. It is connection between the Firewall and Vm1

9. The client will get the email.

10. Since there is connection between on-premises and azure storage using azure storage sync the client can file the modified or newly added file on real time and they can also add the files or modify the files, but the connection is unidirectional.

11. Inside the Vm1 we have a monitoring service called Alert and condition is created that when CPU usage is more than 50% then I should get a warning message that usage of CPU is increased.

12. I have also used LOCK in Vm1. By creating lock on VM1 no one can delete the VM1 unless and until file is deleted so nobody will mistakenly delete the Vm1.

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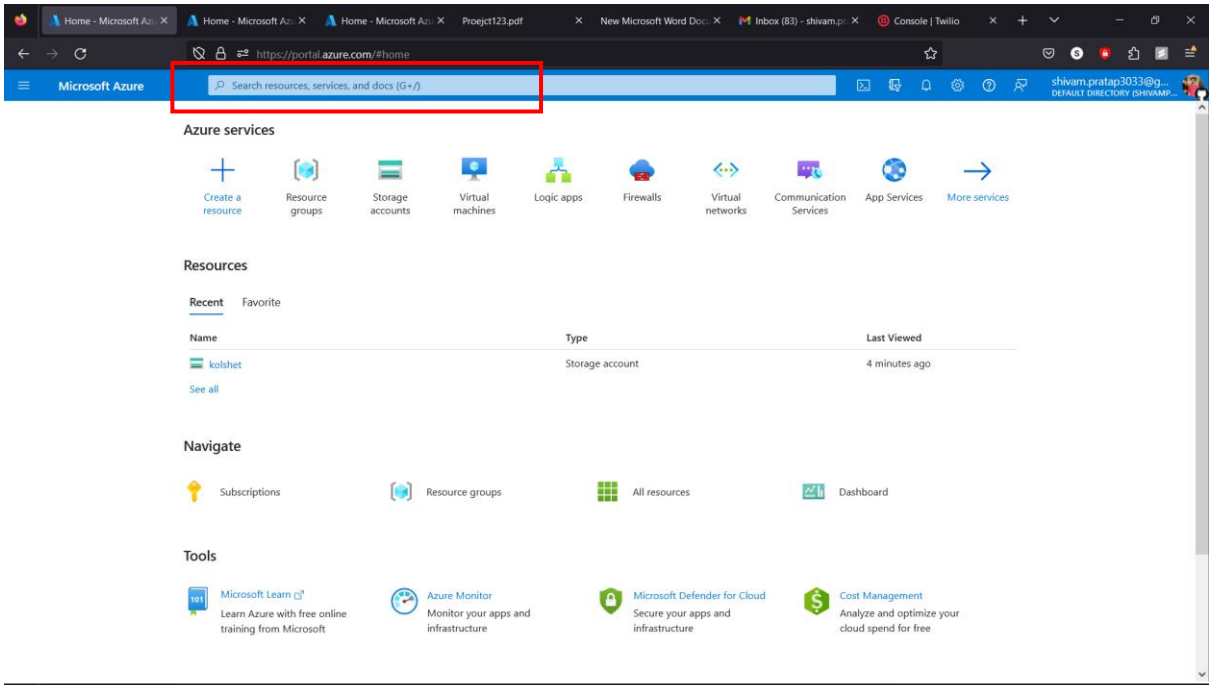
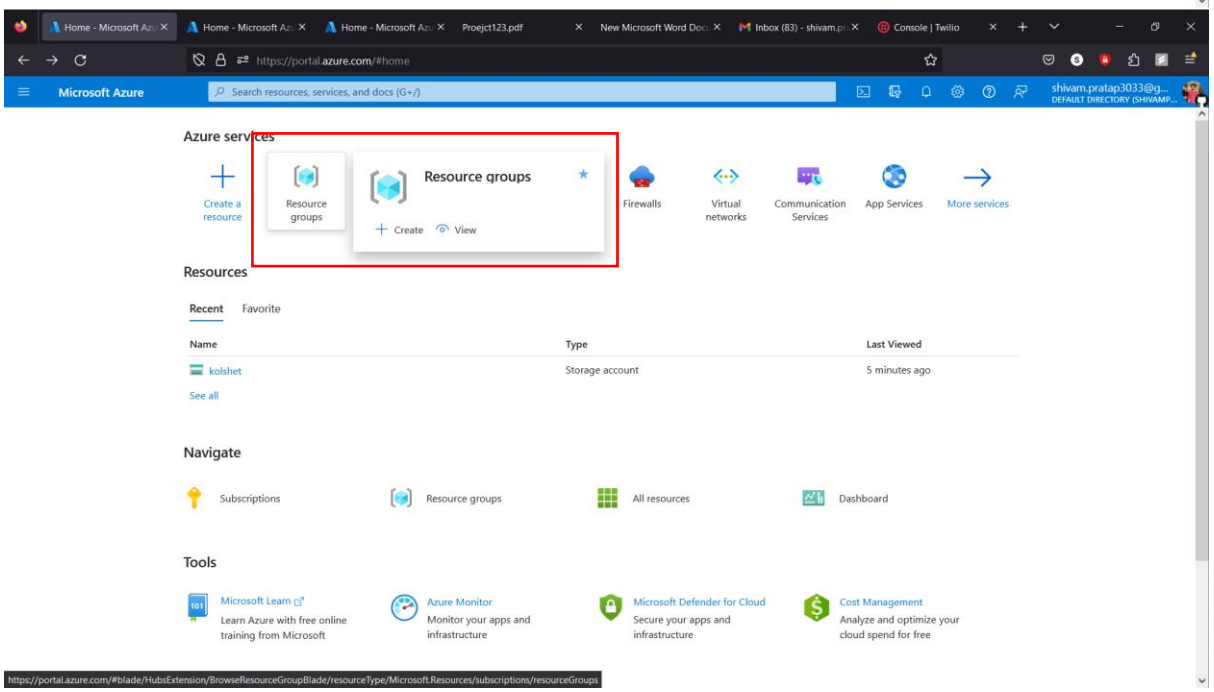
Step by Step Implementation of Full Project

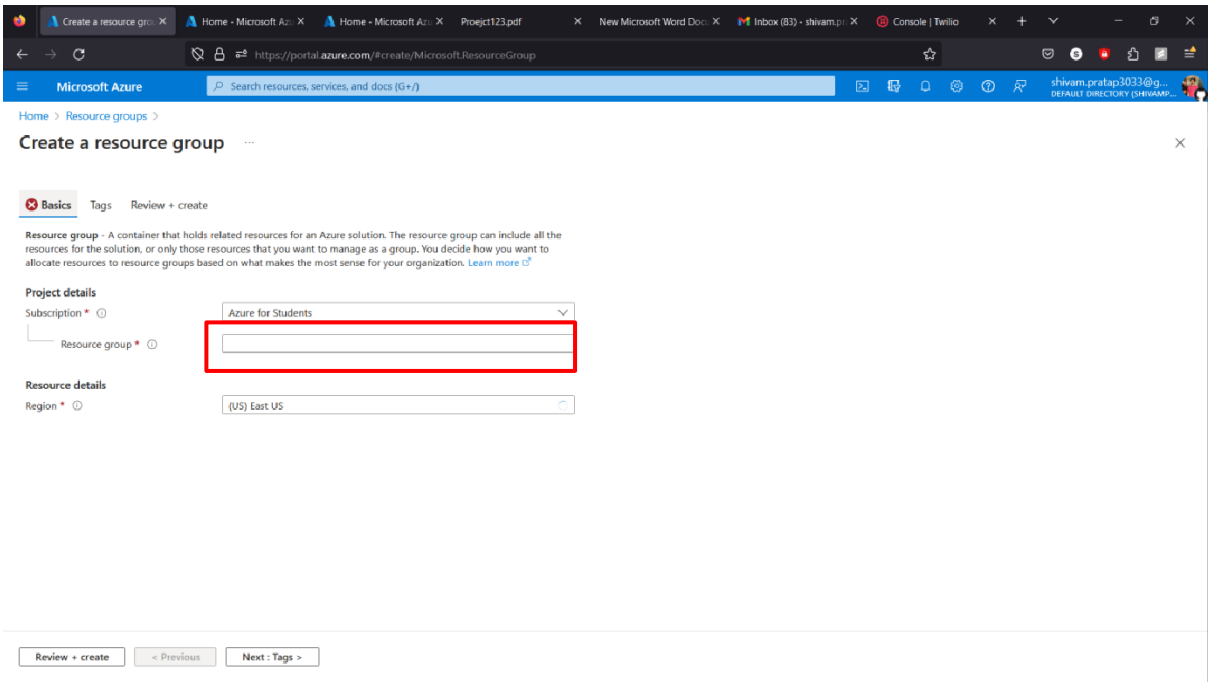
1. First create a Resource Group

Search resource group





Create new Resource Group


Microsoft Azure
Search resources, services, and docs (G+/)
Home > Resource groups >
Create a resource group
Basics
Tags
Review + create
Resource group - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. Learn more
Project details
Subscription *
Azure for Students
Resource group *
Resource details
Region *
(US) East US
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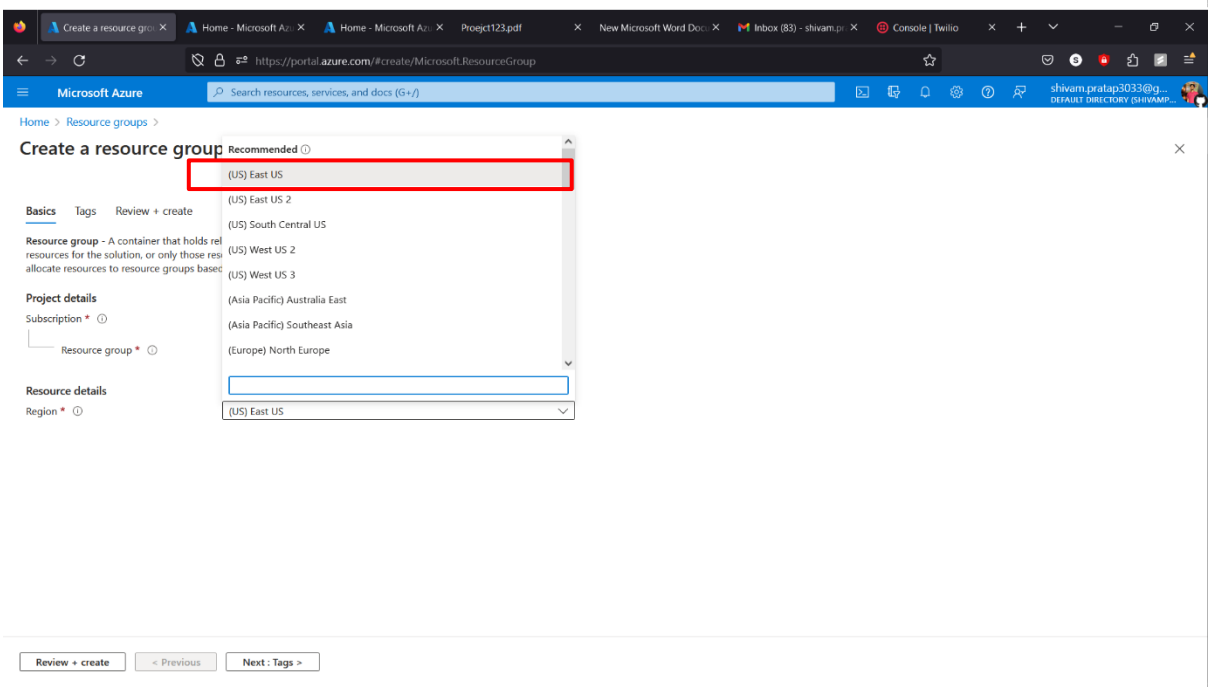
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Subscription *
Resource group *
Resource details
Region *
(US) East US
Recommended
(US) East US
(US) East US 2
(US) South Central US
(US) West US 2
(US) West US 3
(Asia Pacific) Australia East
(Asia Pacific) Southeast Asia
(Europe) North Europe
Review + create
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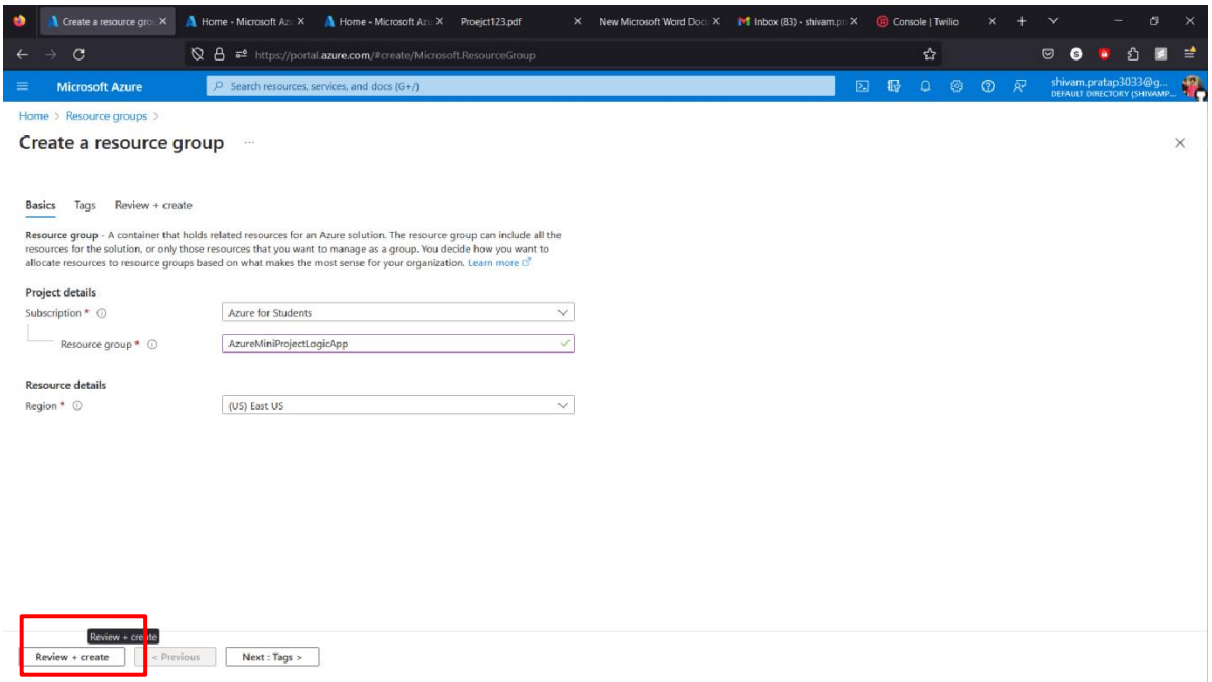
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Resource group *
AzureMiniProjectLogicApp
Resource details
Region *
(US) East US
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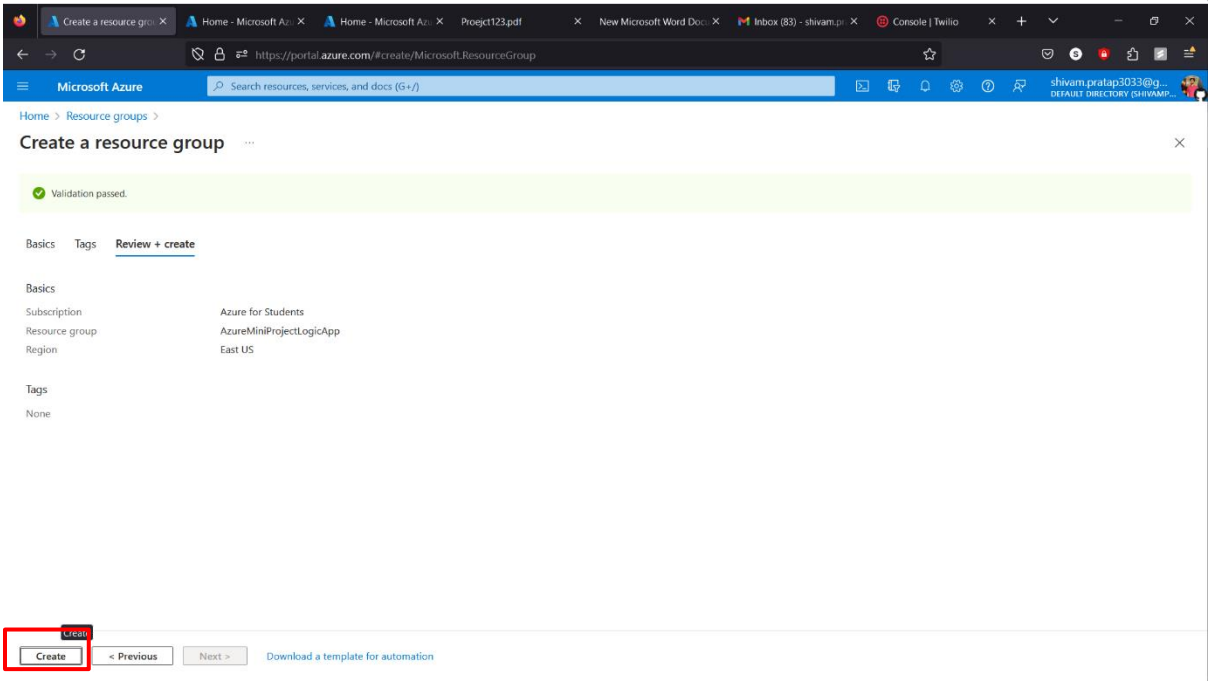
Microsoft Azure
Search resources, services, and docs (G+/)
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Create a resource group
Validation passed.
Basics
Tags
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Basics
Subscription
Azure for Students
Resource group
AzureMiniProjectLogicApp
Region
East US
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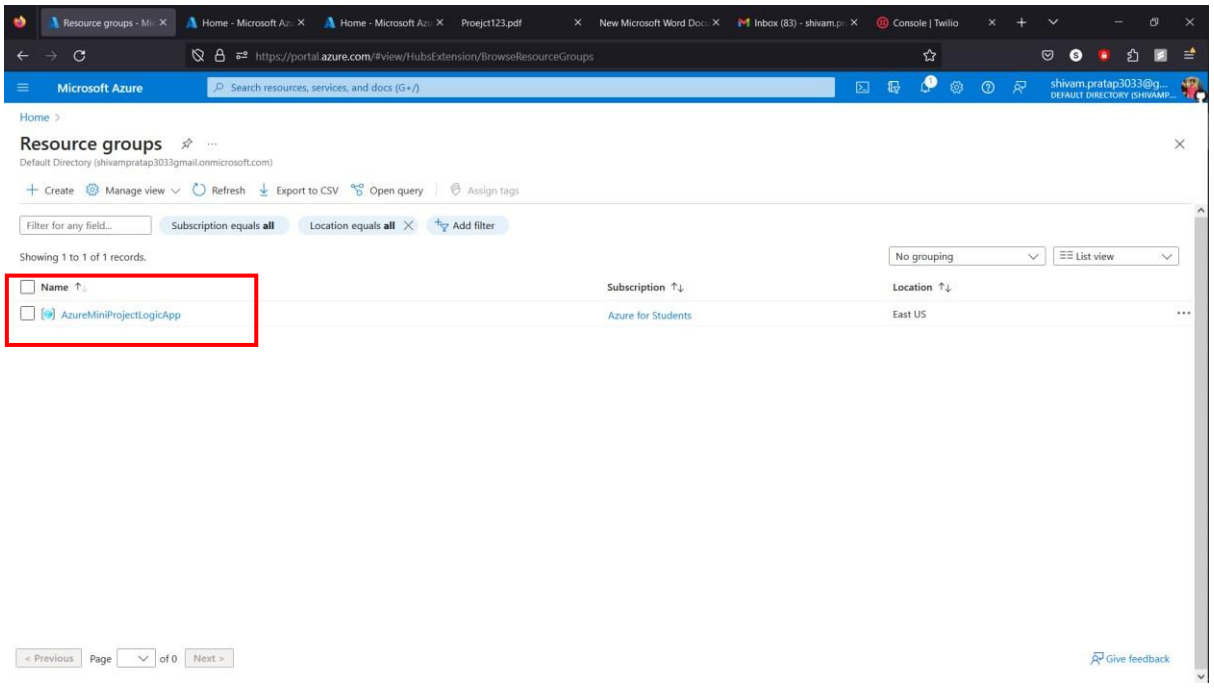
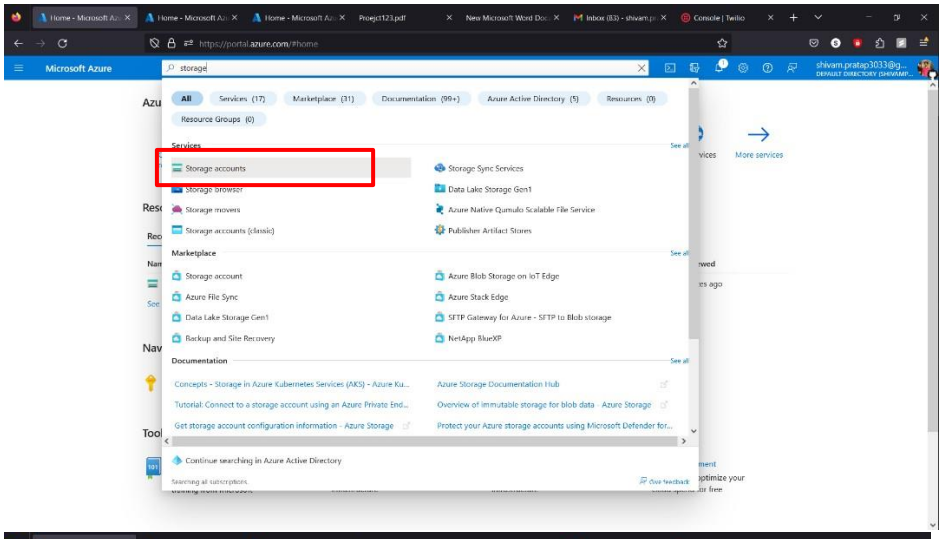
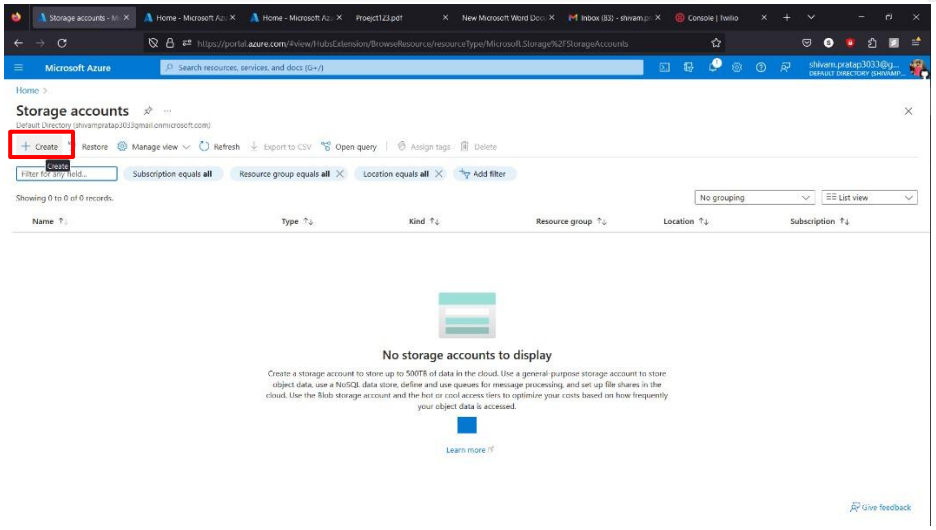
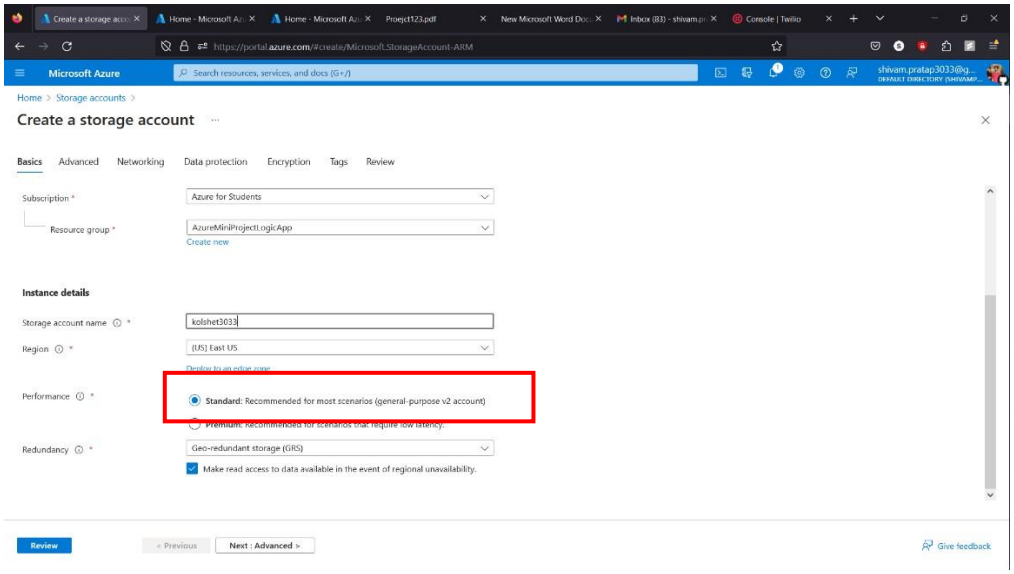
New Resource Group is created.



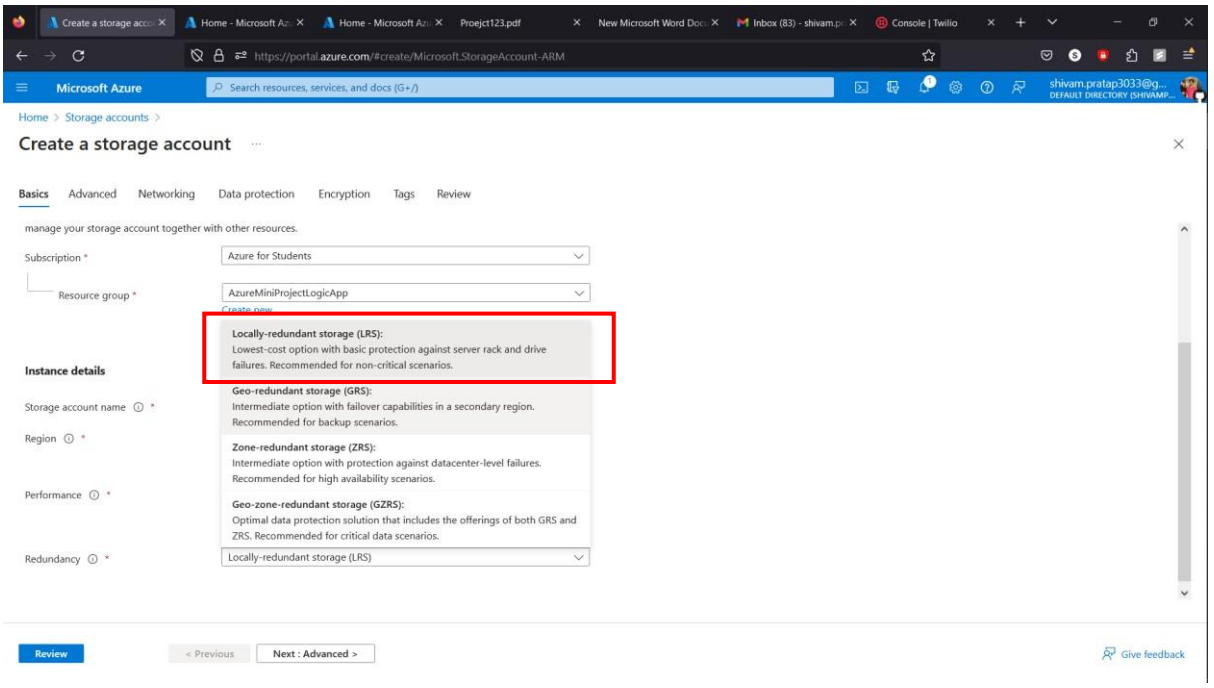
2. Now create a Storage Account



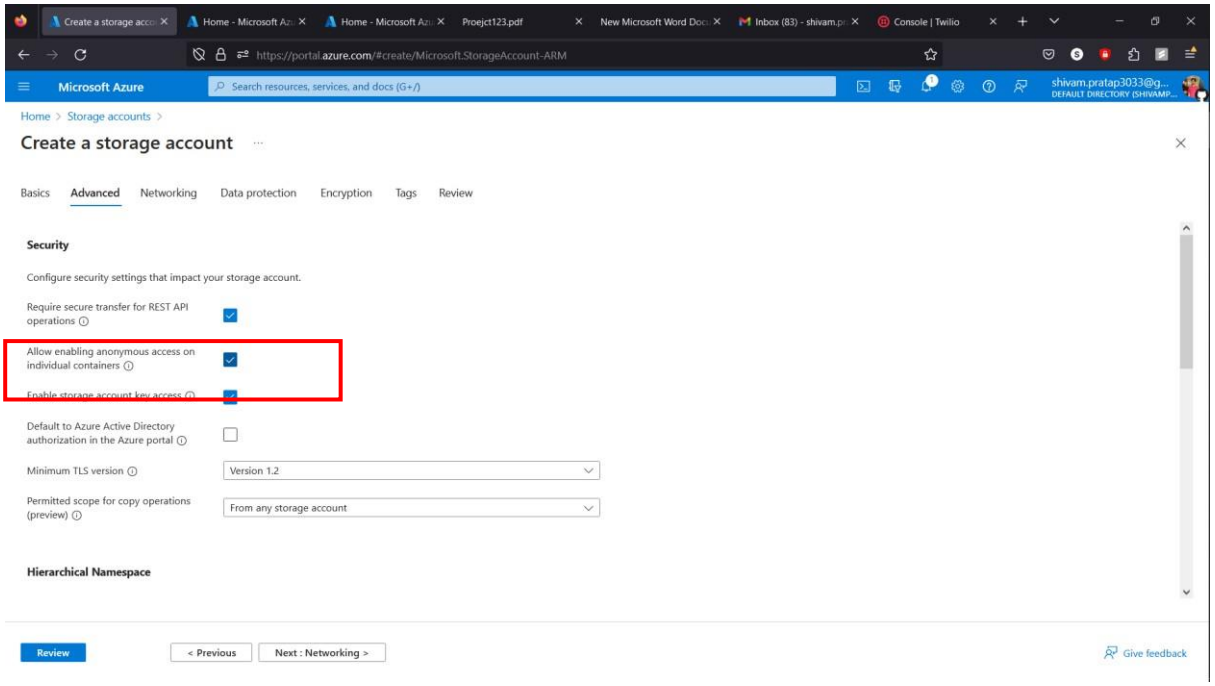


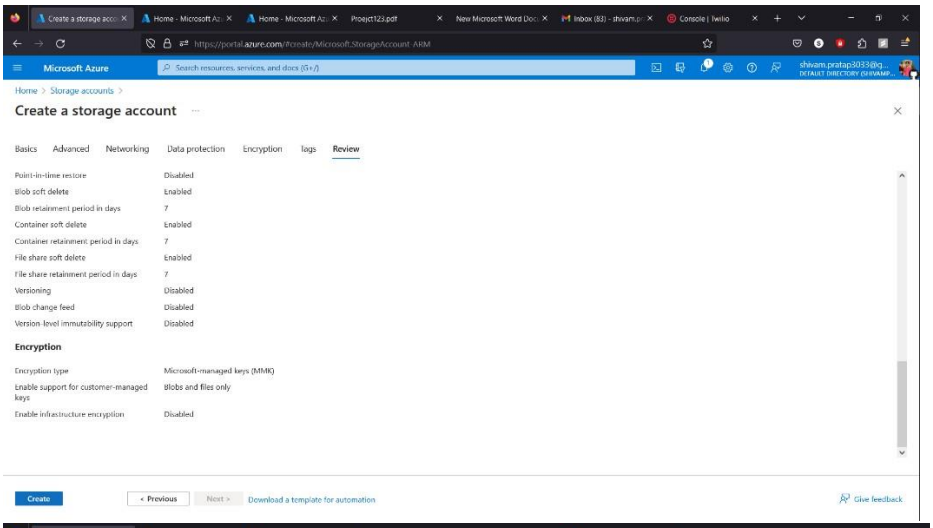


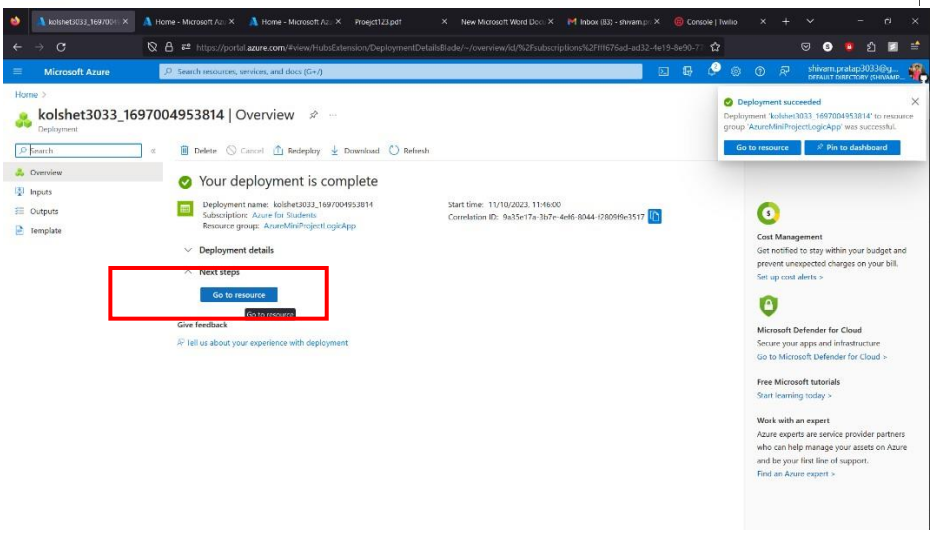
Select Locally redundant (it cost less)



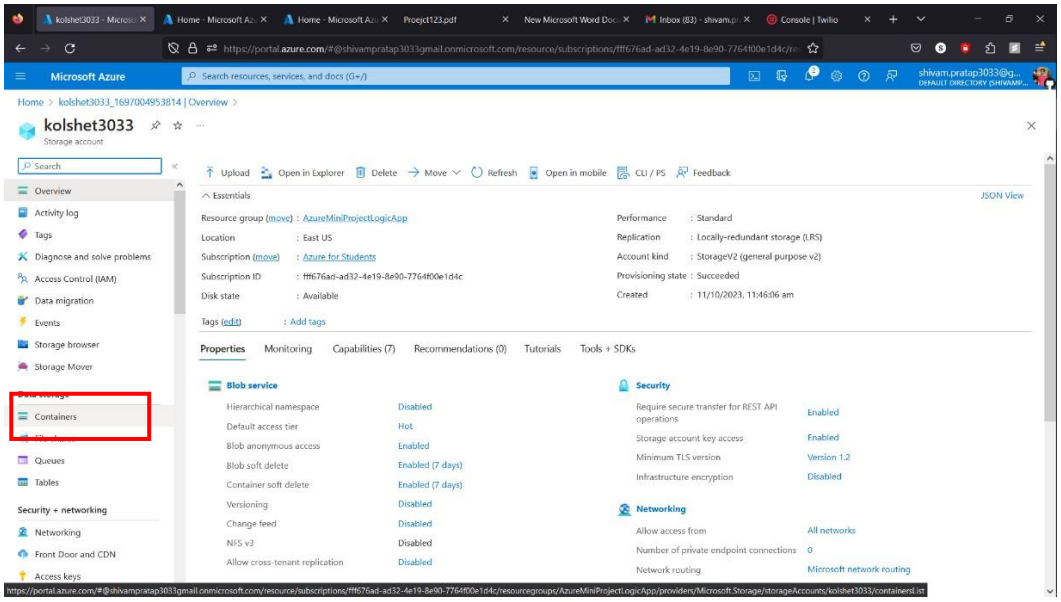
Trick on this to give public access of storage account

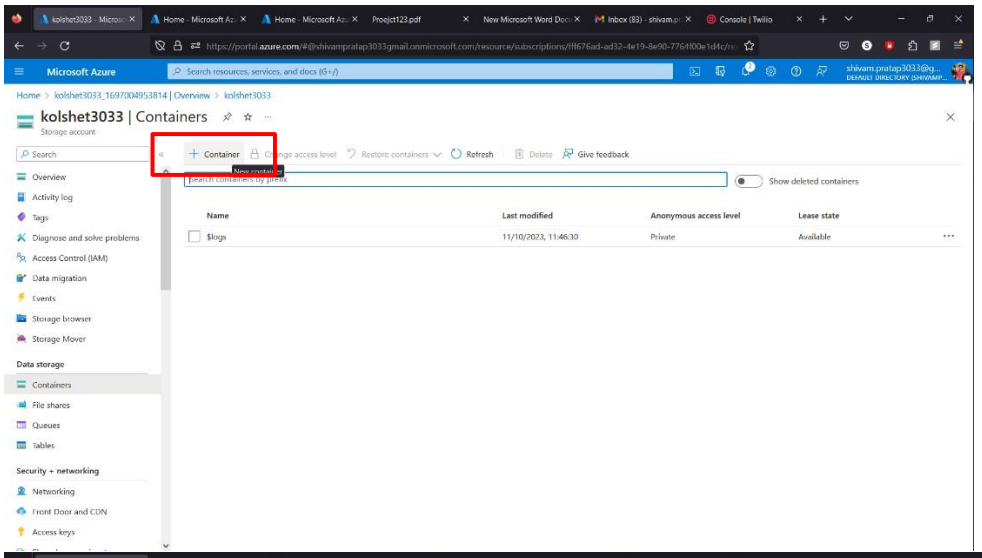


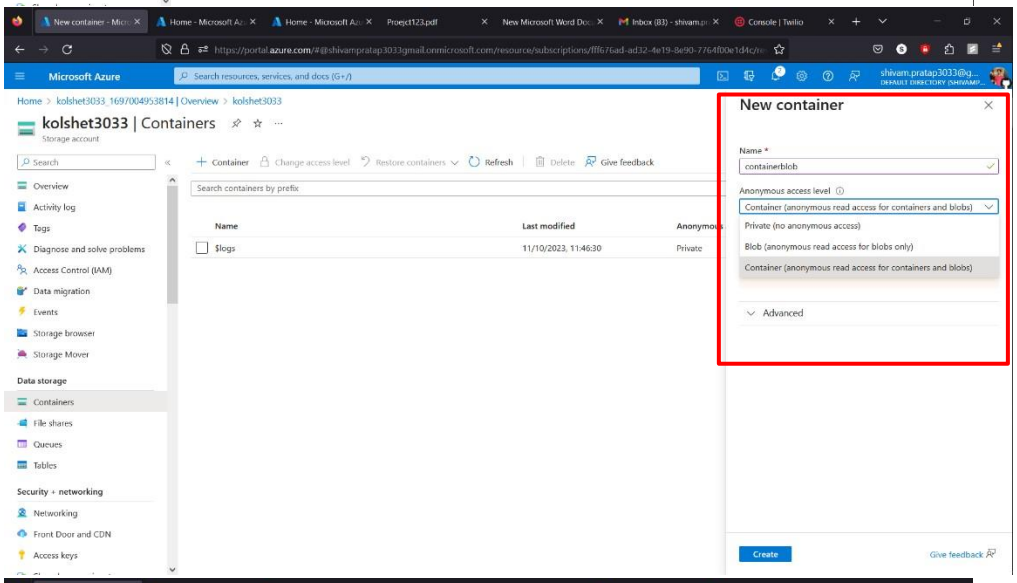


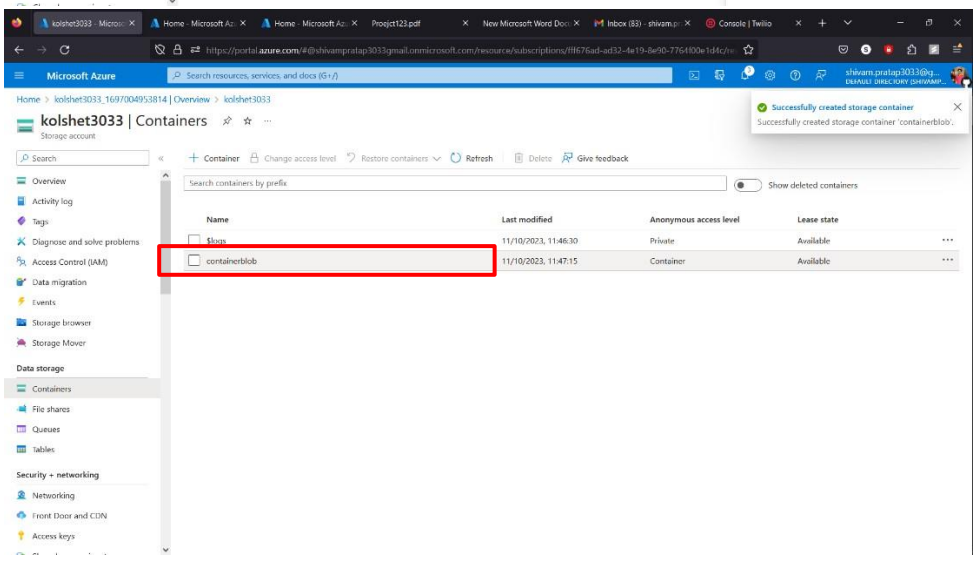


Now go to containers and create the Blob storage account.

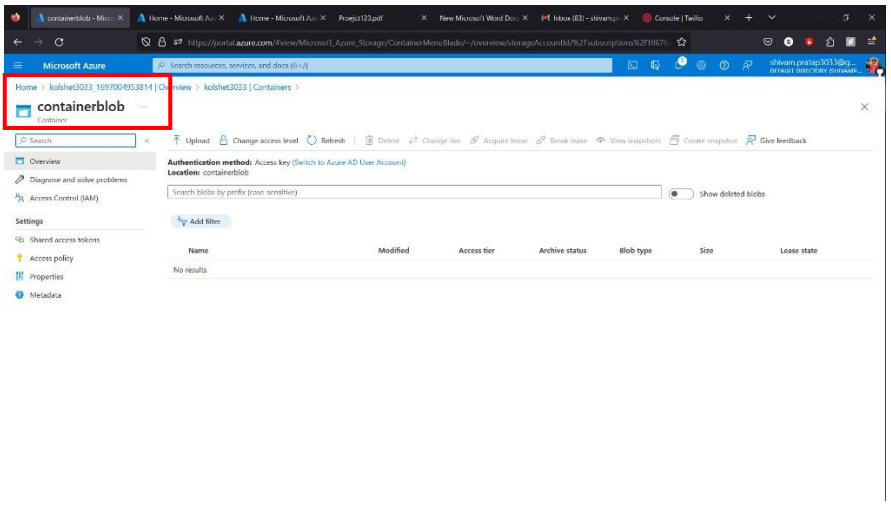




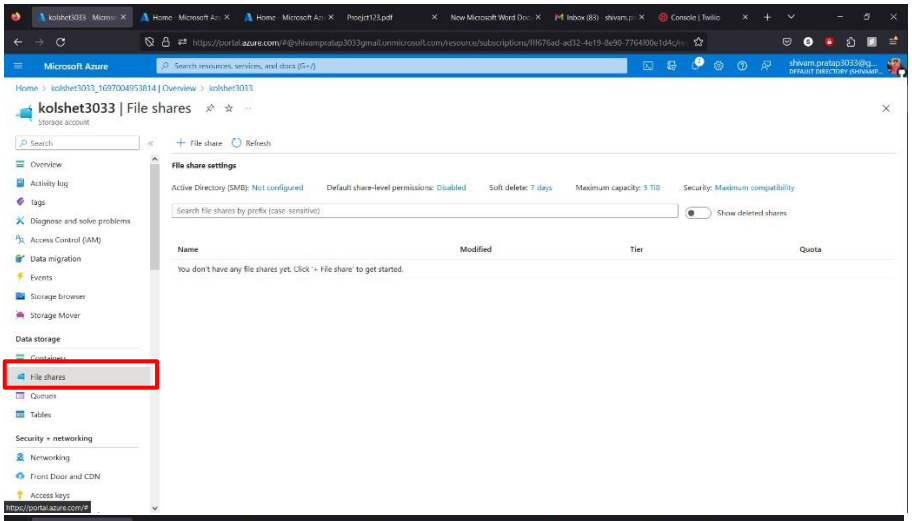


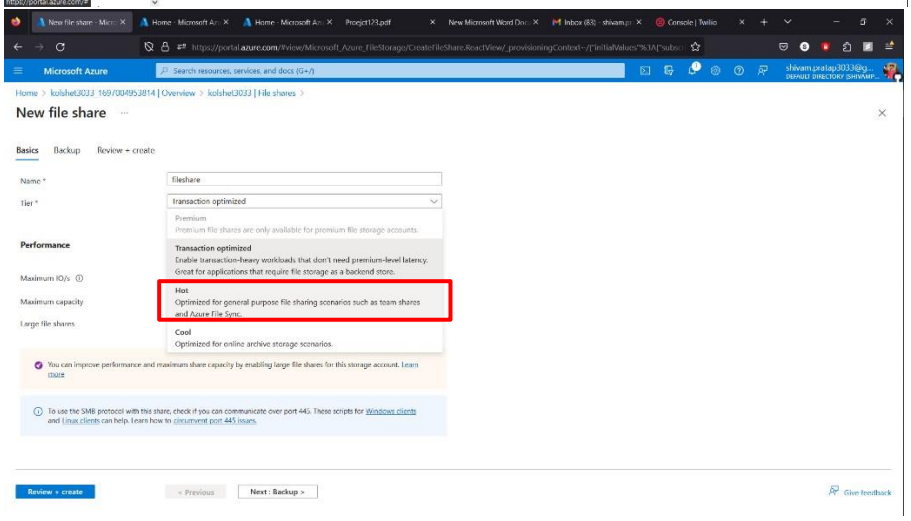


The blob is empty from inside no file is added.



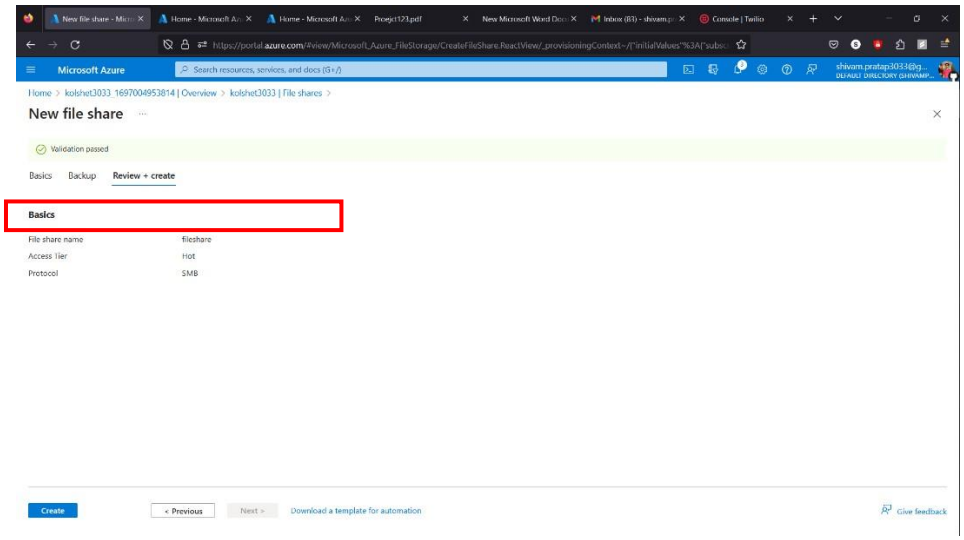
Open file share in storage



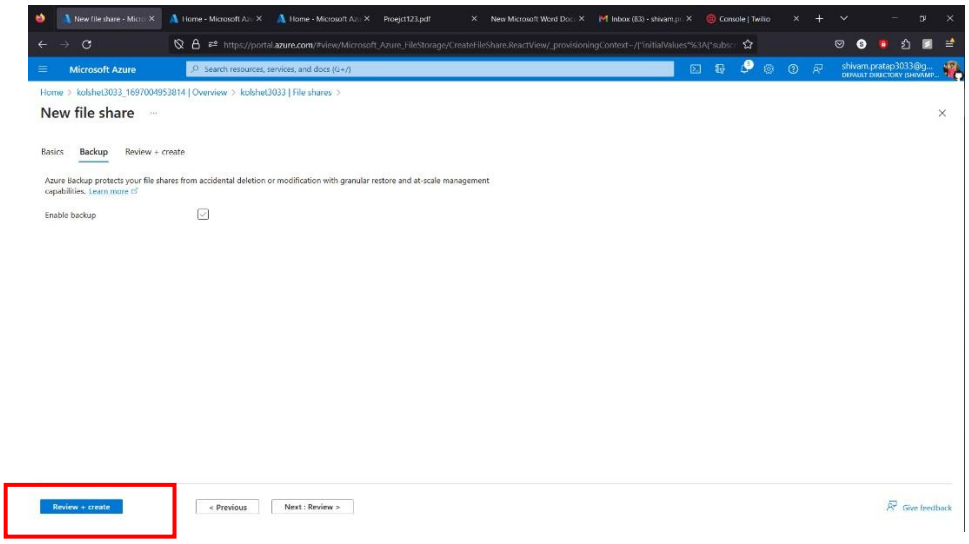


select hot Tie because it is best for general work it is more costly than cool but it is fast

we don't need back up.

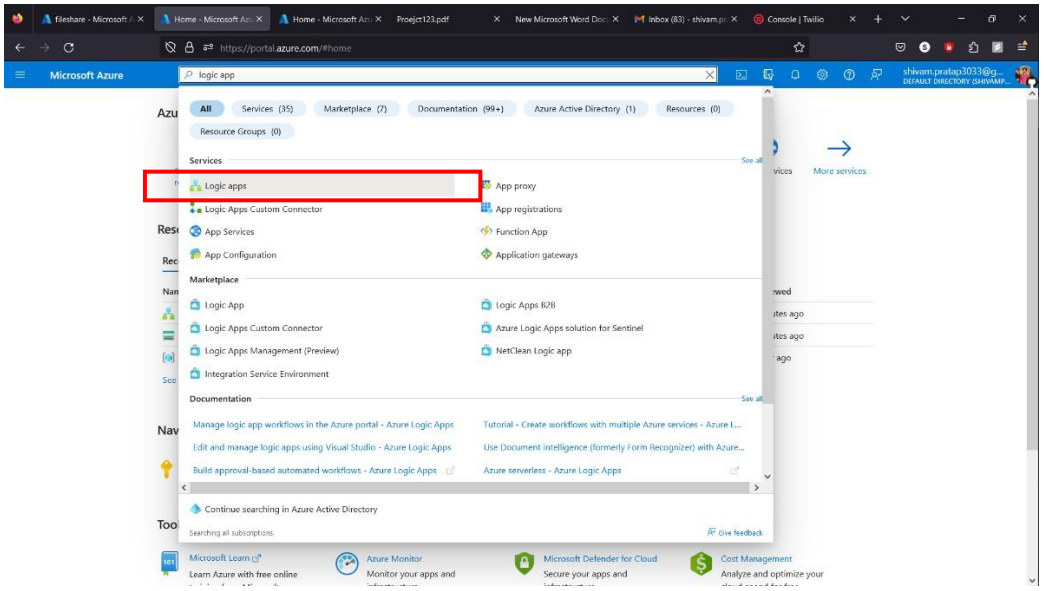


New file share is created

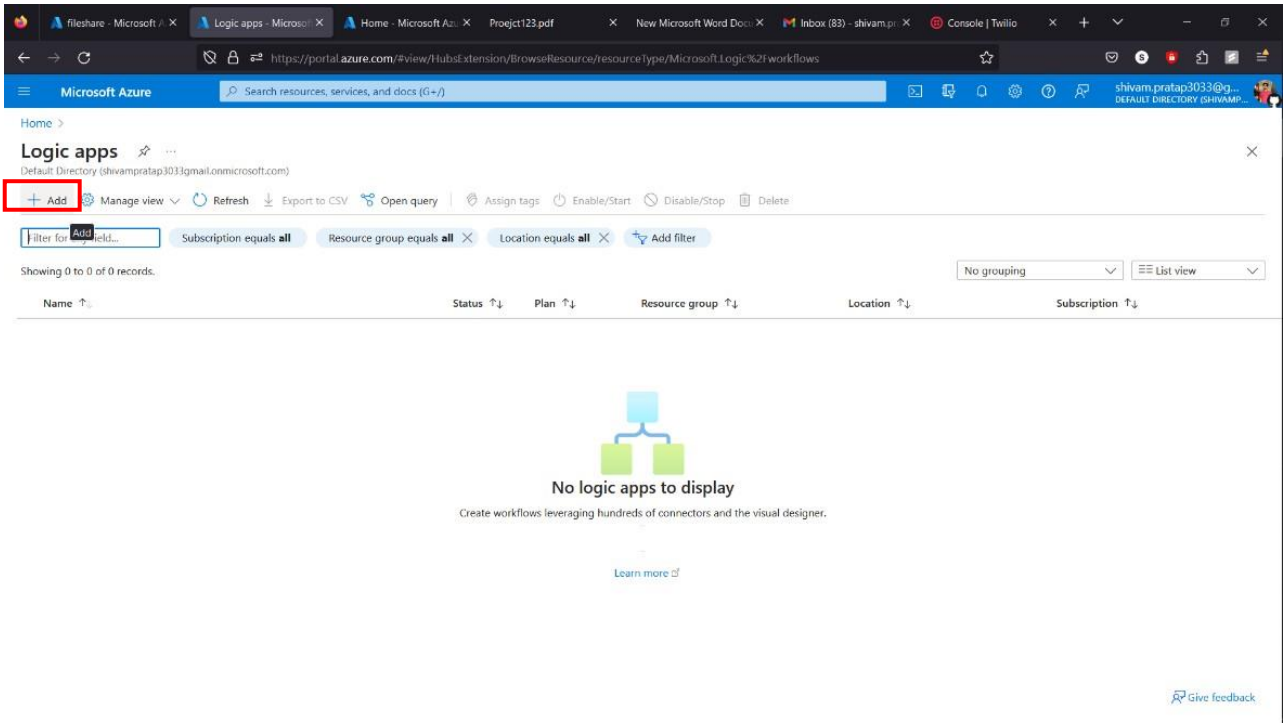


3. Now create a Logic App and create flow in It

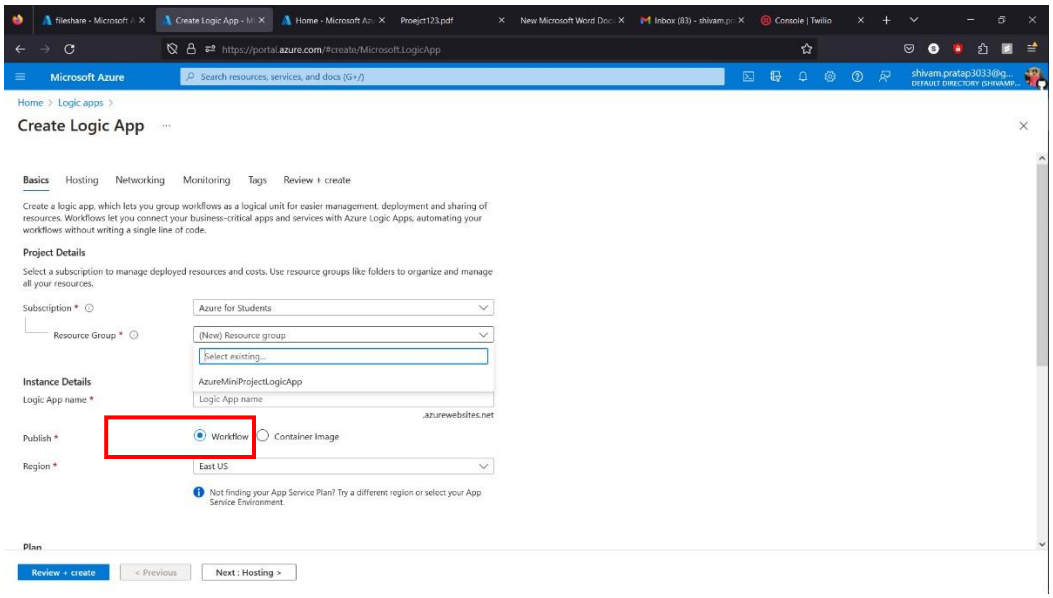
Search logic app



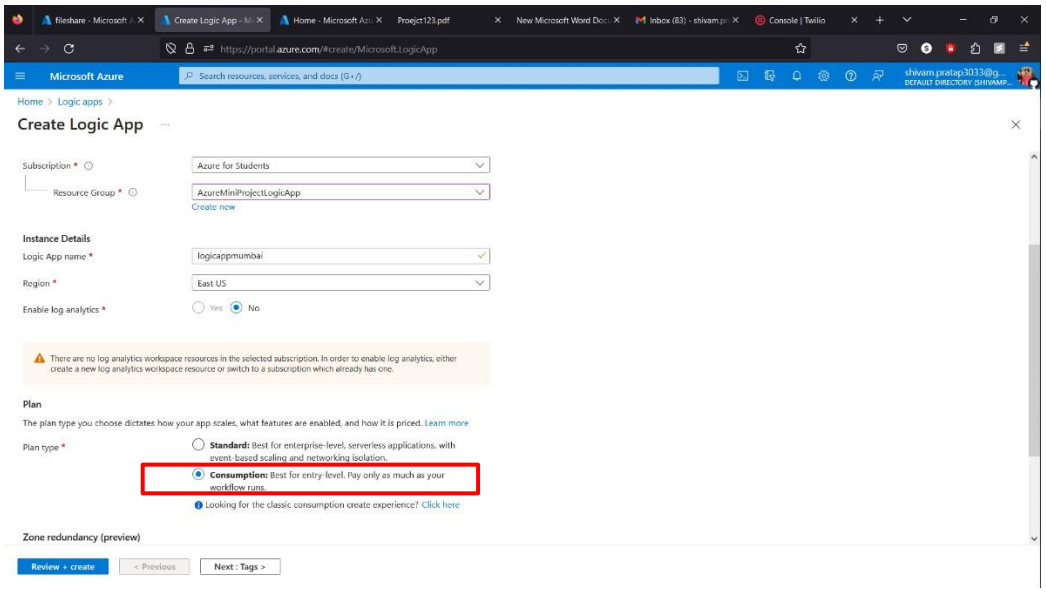
Add new app

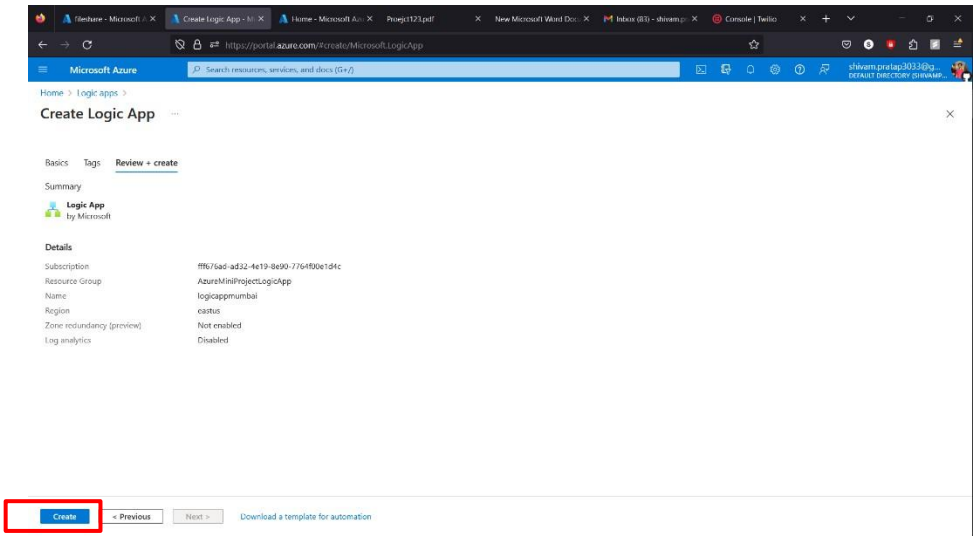


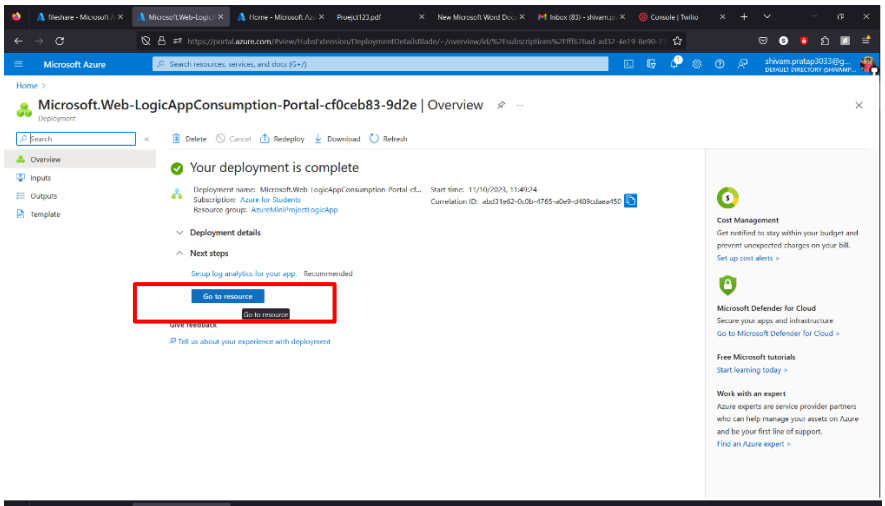
We are not using Docker image so we will select workflow.

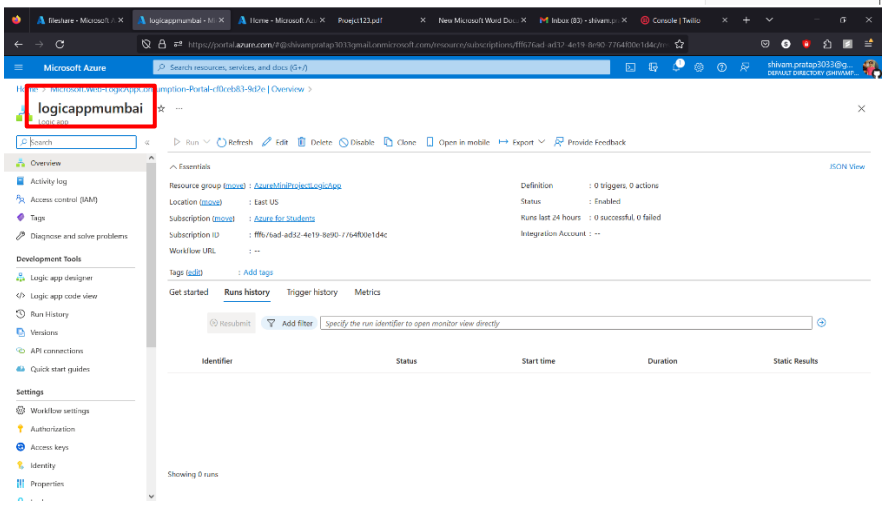


Plan type – consumption because it is cheaper than standard

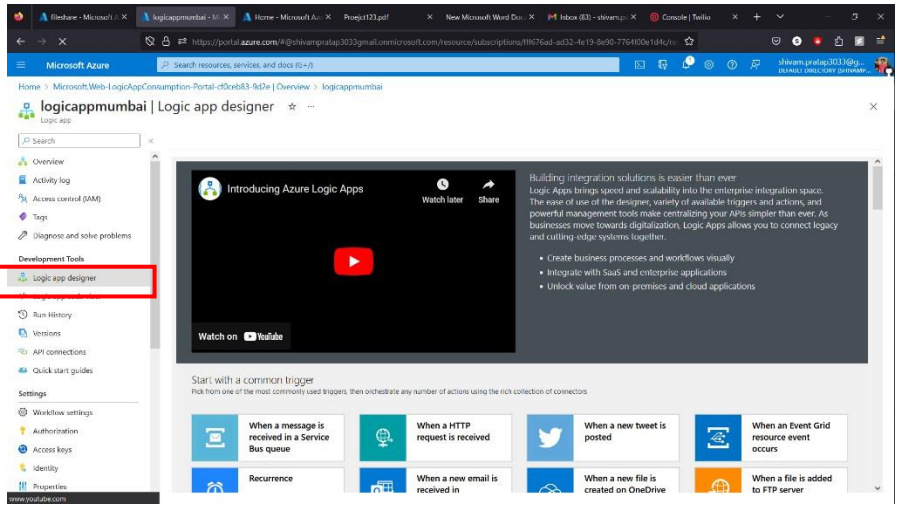


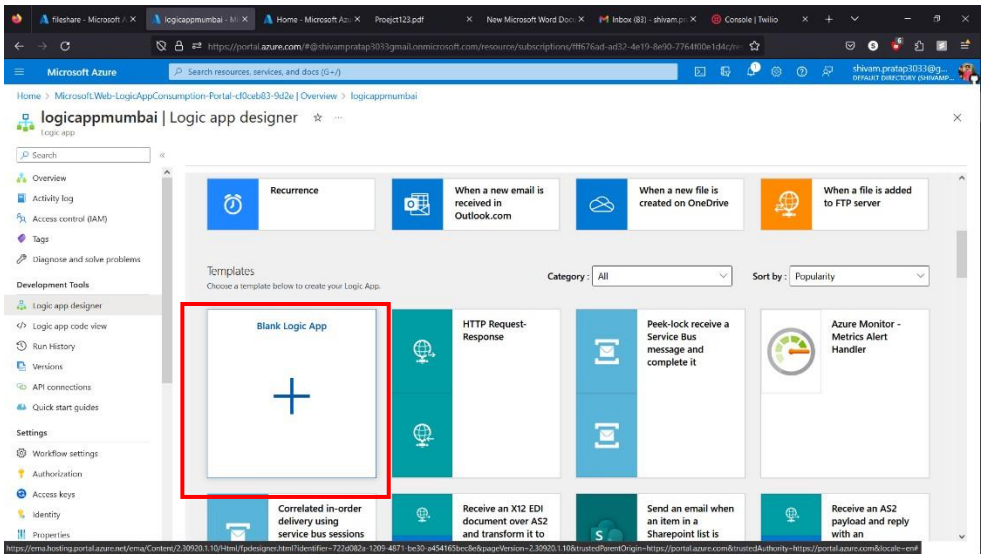




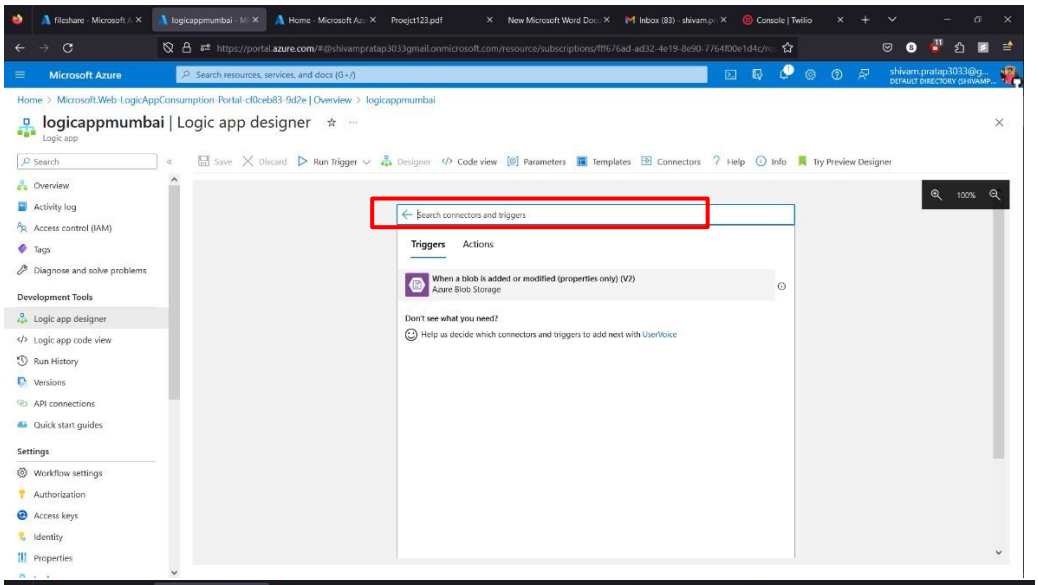


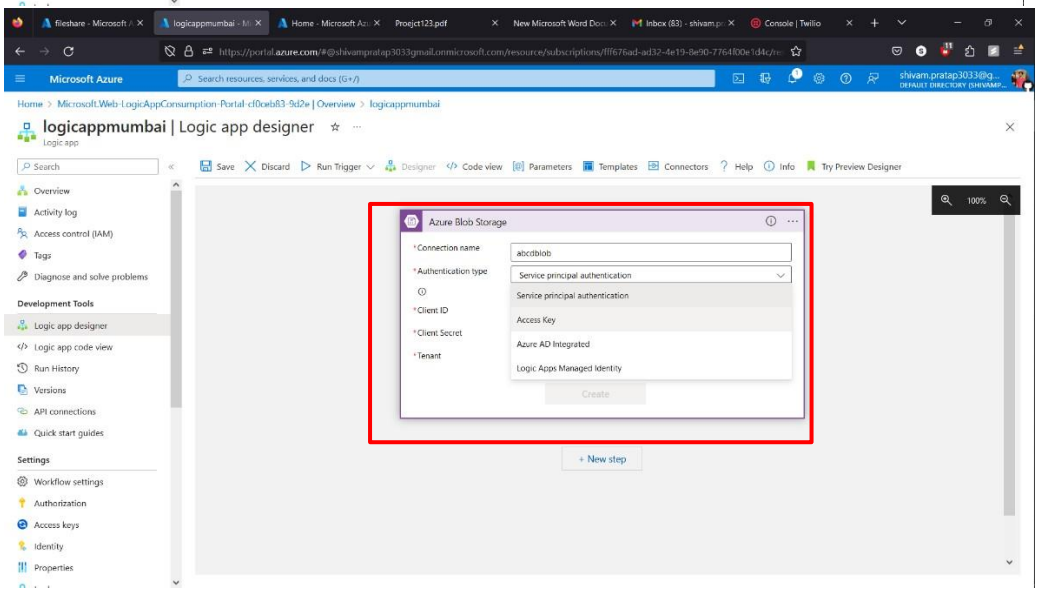
Open Designer and create a blank file





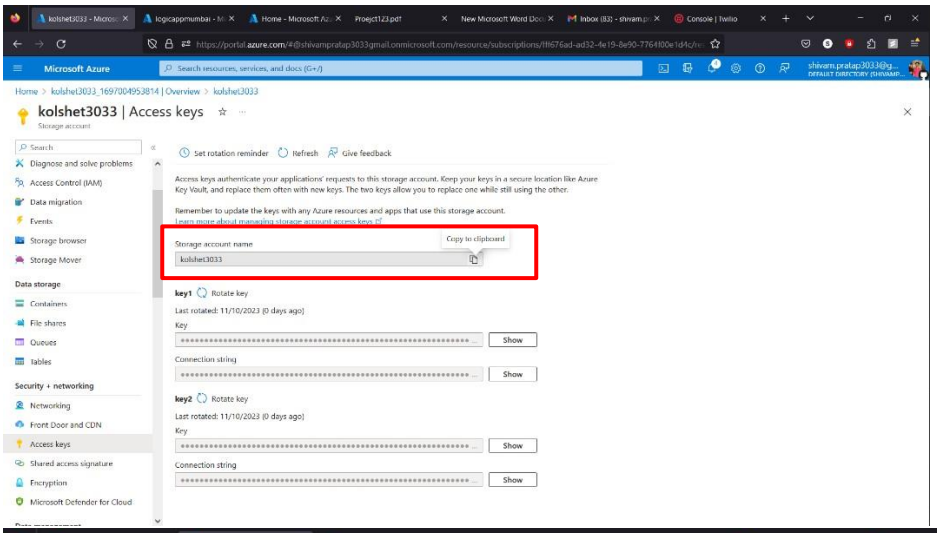
Search for triggers Blob

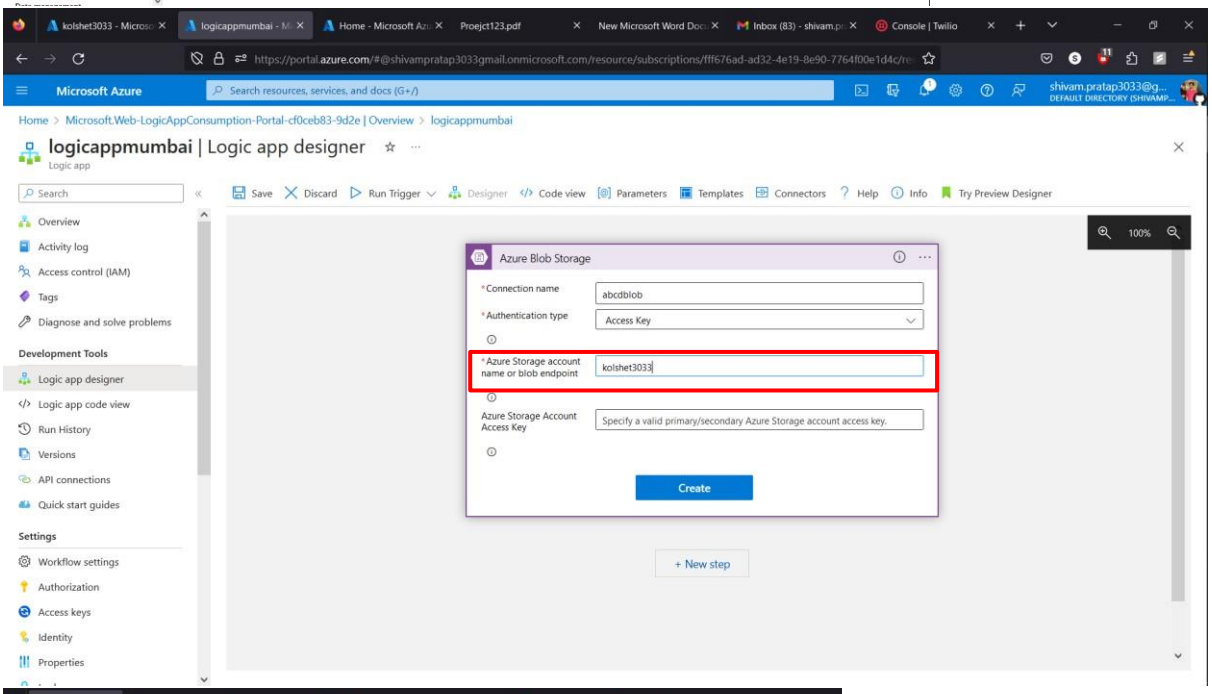




Select access key method.

To create API connection between Blob and Logic app we have to provide the endpoint name and Access key so we will open storage account in other tab and copy the content to logic app


kolshet3033 | Access keys
Storage account
Set rotation reminder
Refresh
Give feedback
Access keys authenticate your applications' requests to this storage account. Keep your keys in a secure location like Azure Key Vault, and replace them often with new keys. The two keys allow you to replace one while still using the other.
Remember to update the keys with any Azure resources and apps that use this storage account.
Storage account name
kolshet3033
Copy to clipboard
key1
Rotate key
Last rotated: 11/10/2023 (0 days ago)
Key
Show
Connection string
key2
Rotate key
Last rotated: 11/10/2023 (0 days ago)
Key
Show
Connection string
Show


Microsoft Azure
Search resources, services, and docs (G+/)
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logicappmumbai | Logic app designer
Logic app
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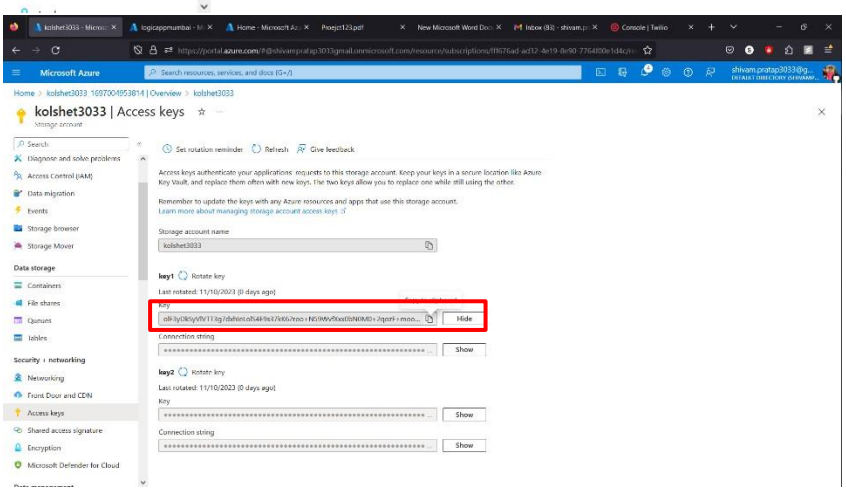
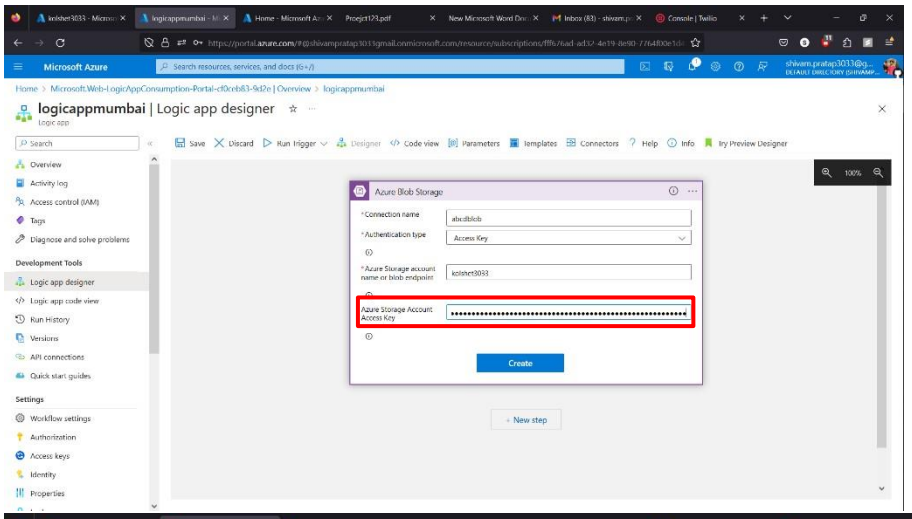
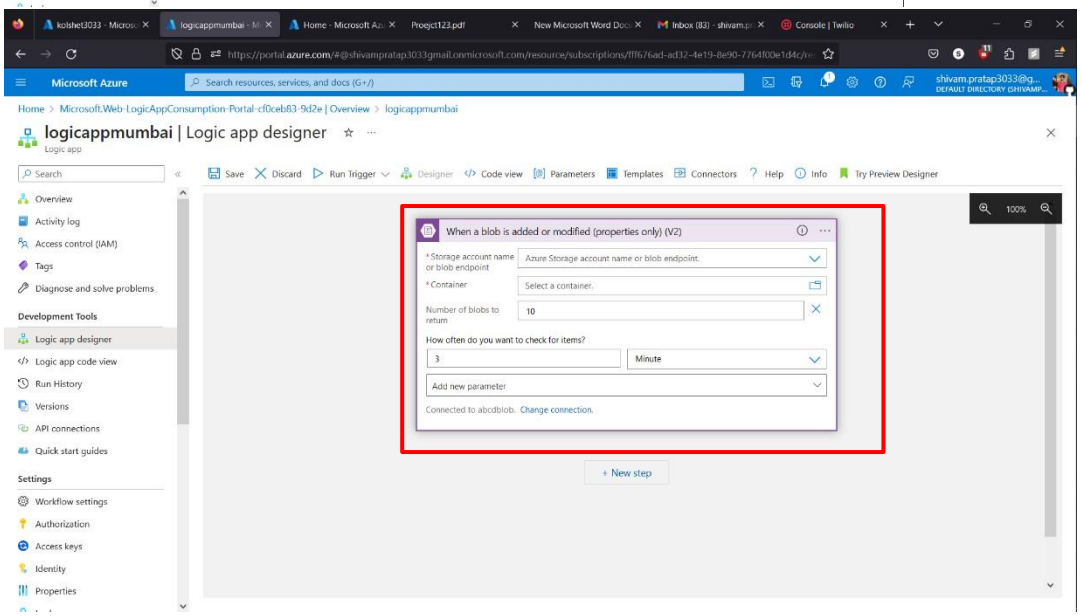
Workflow settings
Authorization
Access keys
Identity
Properties
100%
Azure Blob Storage
*Connection name
abcdblob
*Authentication type
Access Key
*Azure Storage account name or blob endpoint
kolshet3033
Azure Storage Account Access Key
Specify a valid primary/secondary Azure Storage account access key.
Create
+ New step


kolshet3033 | Access keys
Storage account
Set rotation reminder
Refresh
Give feedback
Access keys authenticate your applications' requests to this storage account. Keep your keys in a secure location like Azure Key Vault, and replace them often with new keys. The two keys allow you to replace one while still using the other.
Remember to update the keys with any Azure resources and apps that use this storage account.
Storage account name
kolshet3033
key1
Rotate key
Last rotated: 11/10/2023 (0 days ago)
Key
Hide
Connection string
Show
key2
Rotate key
Last rotated: 11/10/2023 (0 days ago)
Key
Show
Connection string
Show


logicappmumbai | Logic app designer
Logic app
Azure Blob Storage
* Connection name
abcdblob
* Authentication type
Access Key
* Azure Storage account name or blob endpoint
kolshet3033
Azure Storage Account Access Key
Create
+ New step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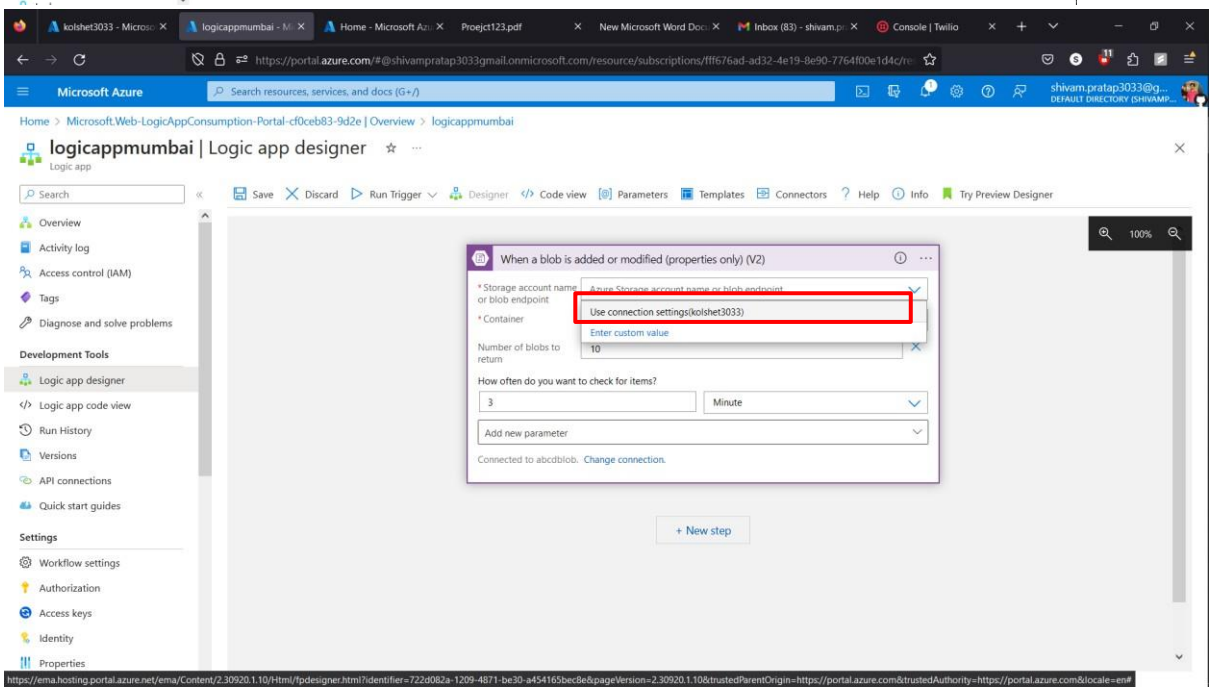
Logic app
When a blob is added or modified (properties only) (V2)
* Storage account name or blob endpoint
Azure Storage account name or blob endpoint.
* Container
Select a container.
Number of blobs to return
10
How often do you want to check for items?
3
Minute
Add new parameter
Connected to abcdblob. Change connection.
+ New step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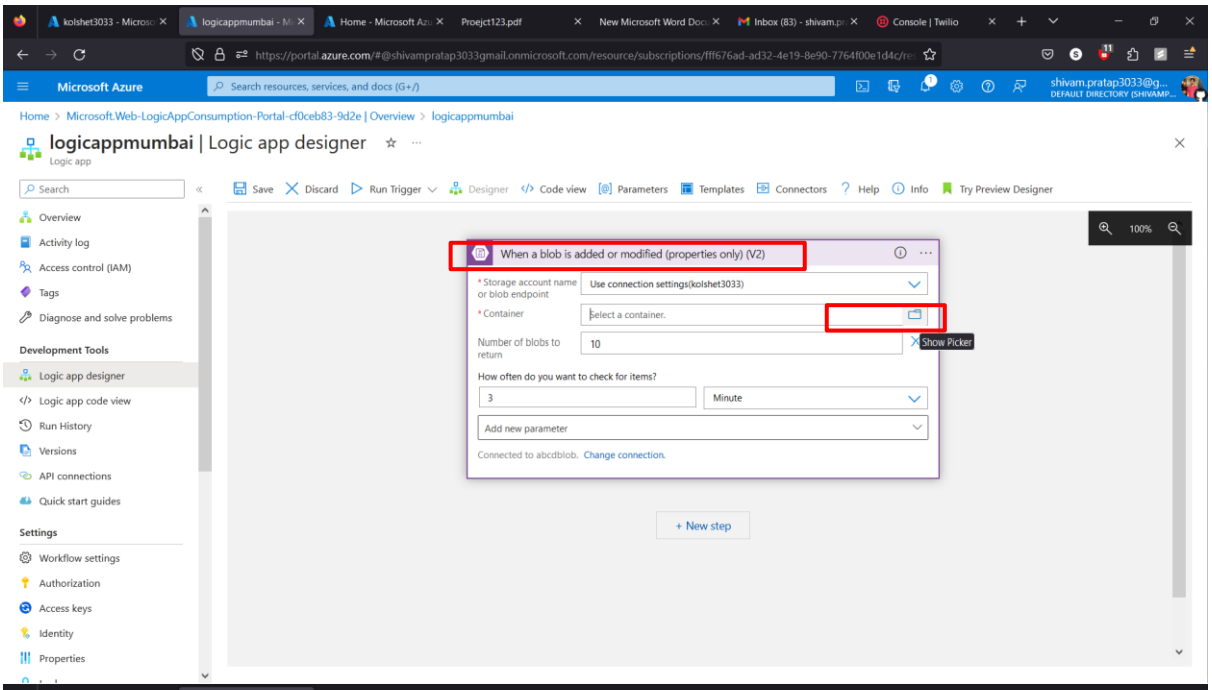
Logic app
When a blob is added or modified (properties only) (V2)
* Storage account name or blob endpoint
Azure Storage account name or blob endpoint
* Container
Use connection settings(kolshet3033)
Enter custom value
Number of blobs to return
10
How often do you want to check for items?
3
Minute
Add new parameter
Connected to abcdblob. Change connection.
+ New step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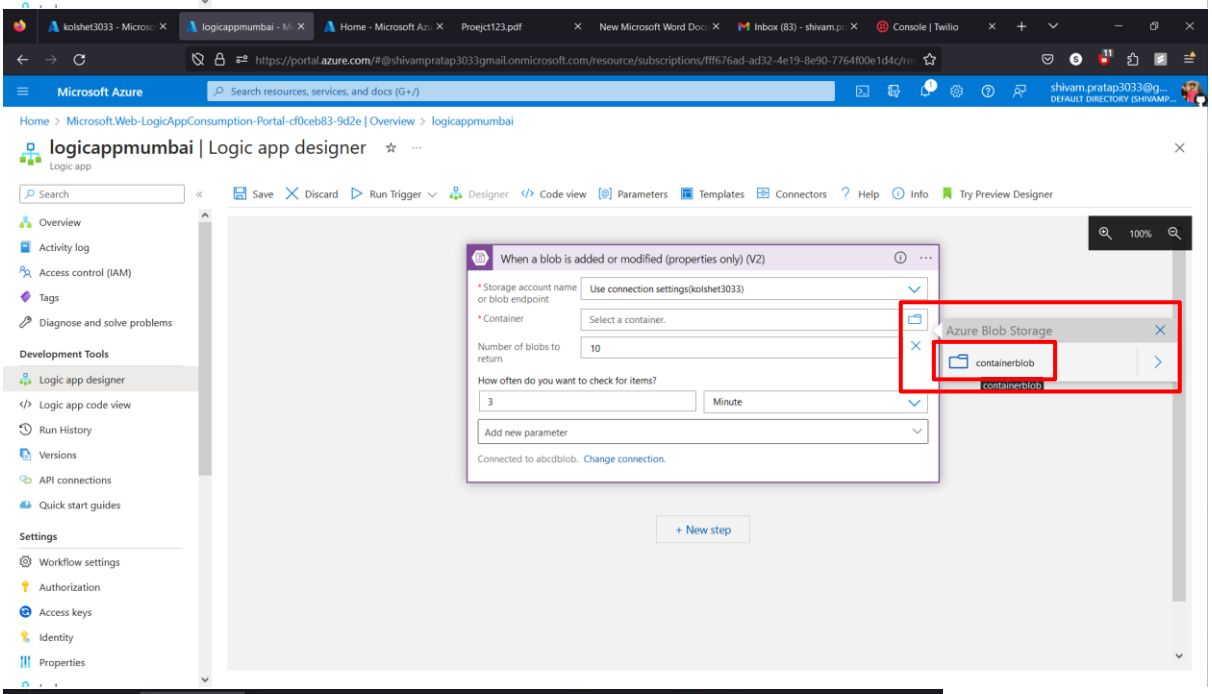
Properties
When a blob is added or modified (properties only) (V2)
Storage account name or blob endpoint
Use connection settings(kolshet3033)
Container
Select a container.
Show Picker
Number of blobs to return
10
How often do you want to check for items?
3
Minute
Add new parameter
Connected to abcdblob. Change connection.
+ New step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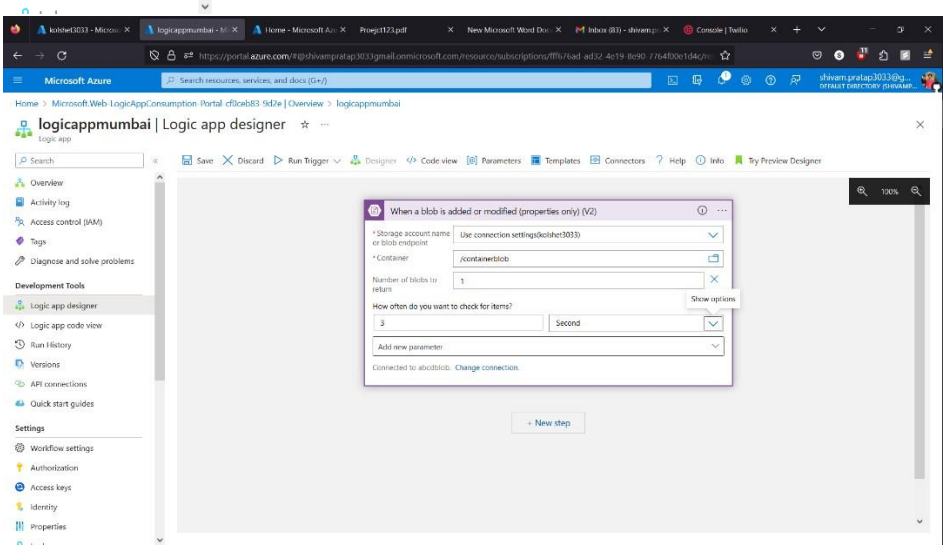
When a blob is added or modified (properties only) (V2)
Storage account name or blob endpoint
Use connection settings(kolshet3033)
Container
Select a container.
Azure Blob Storage
containerblob
containerblob
Number of blobs to return
10
How often do you want to check for items?
3
Minute
Add new parameter
Connected to abcdblob. Change connection.
+ New step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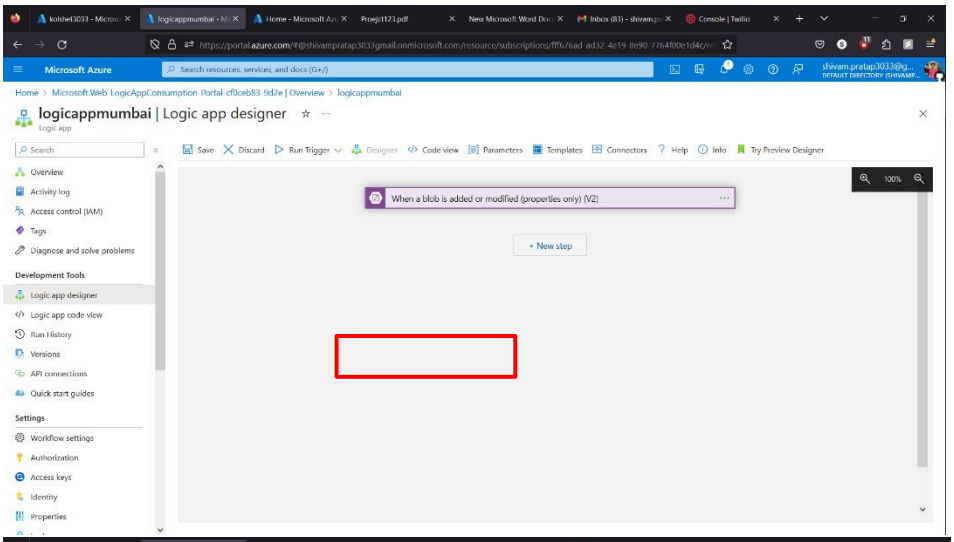
When a blob is added or modified (properties only) (V2)
Storage account name or blob endpoint
Use connection settings(kolshet3033)
Container
/containerblob
Number of blobs to return
1
Show options
How often do you want to check for items?
3
Second
Add new parameter
Connected to abcdblob. Change connection.
+ New step


Microsoft Azure
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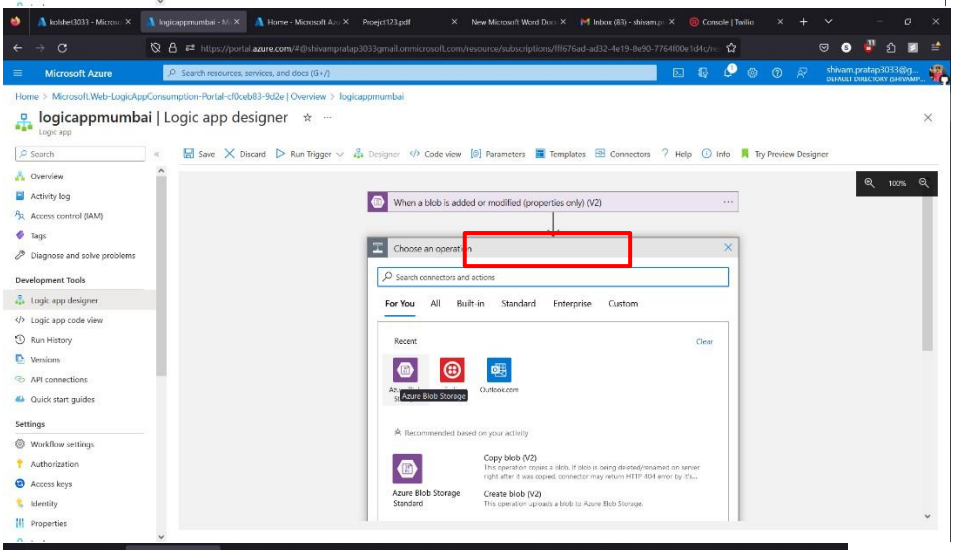
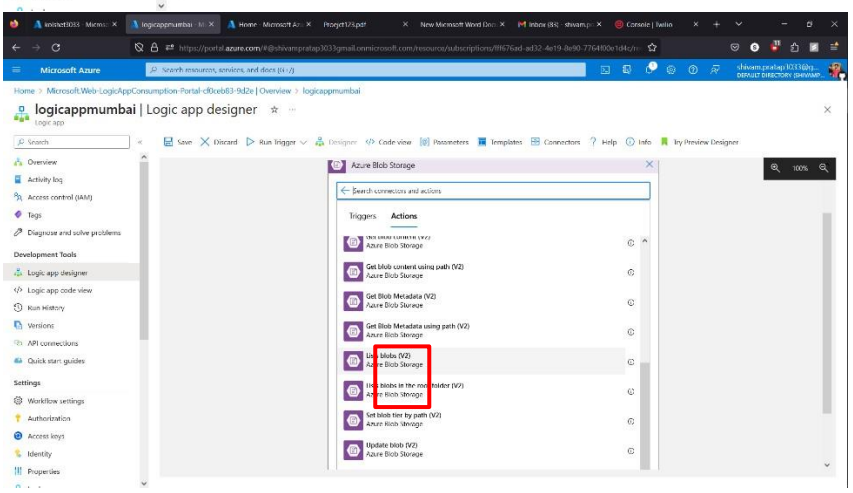
Properties
When a blob is added or modified (properties only) (V2)
+ New step


Microsoft Azure
logicappmumbai | Logic app designer
When a blob is added or modified (properties only) (V2)
Choose an operation
Search connectors and actions
For You
All
Built-in
Standard
Enterprise
Custom
Recent
Clear
Azure Blob Storage
Outlook.com
Recommended based on your activity
Copy blob (V2)
Azure Blob Storage
Standard
Create blob (V2)


Microsoft Azure
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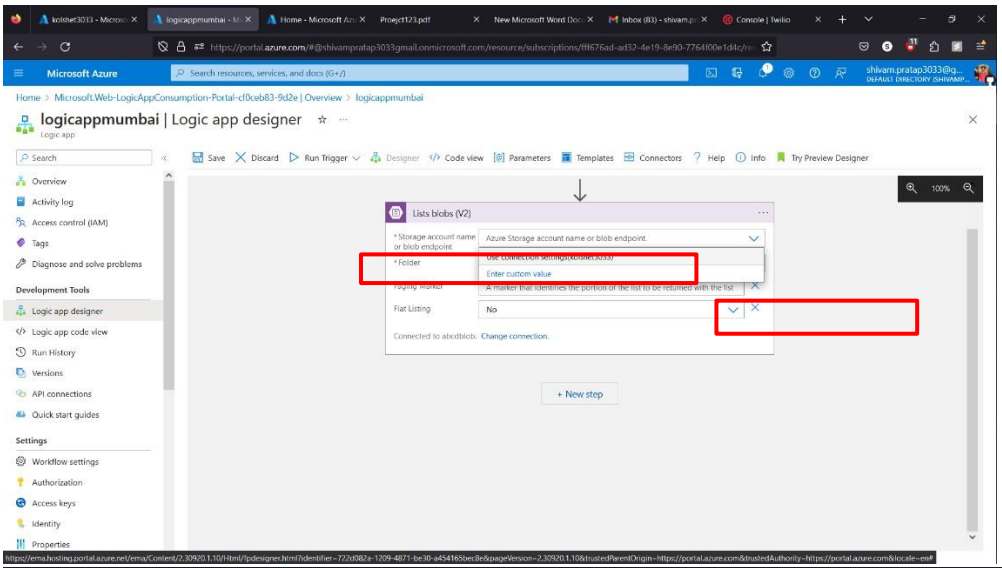
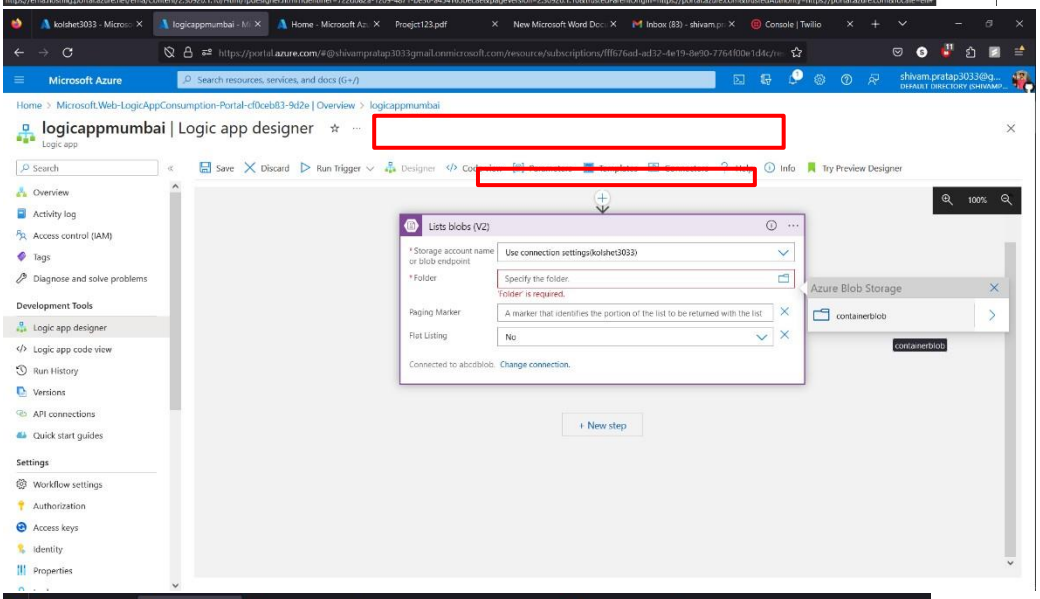
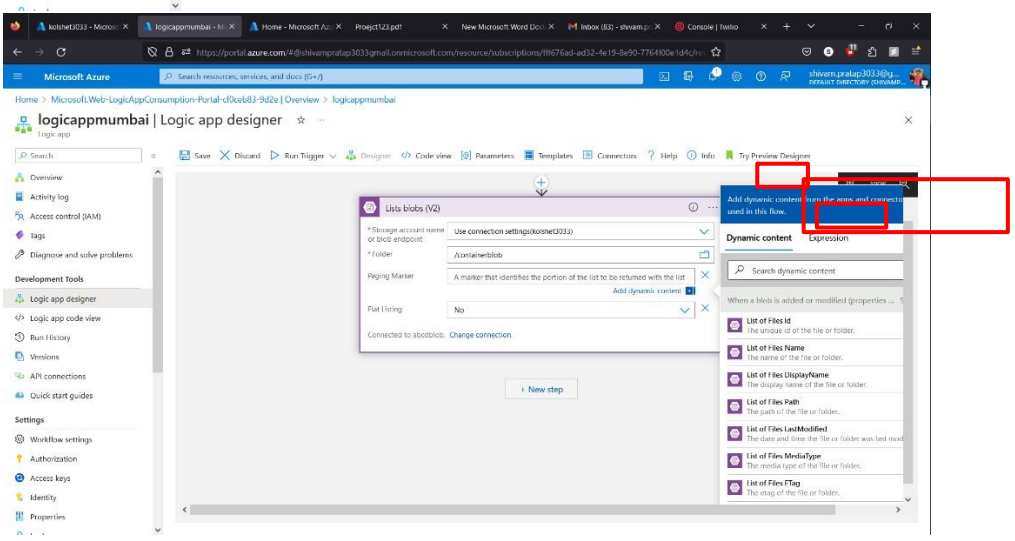
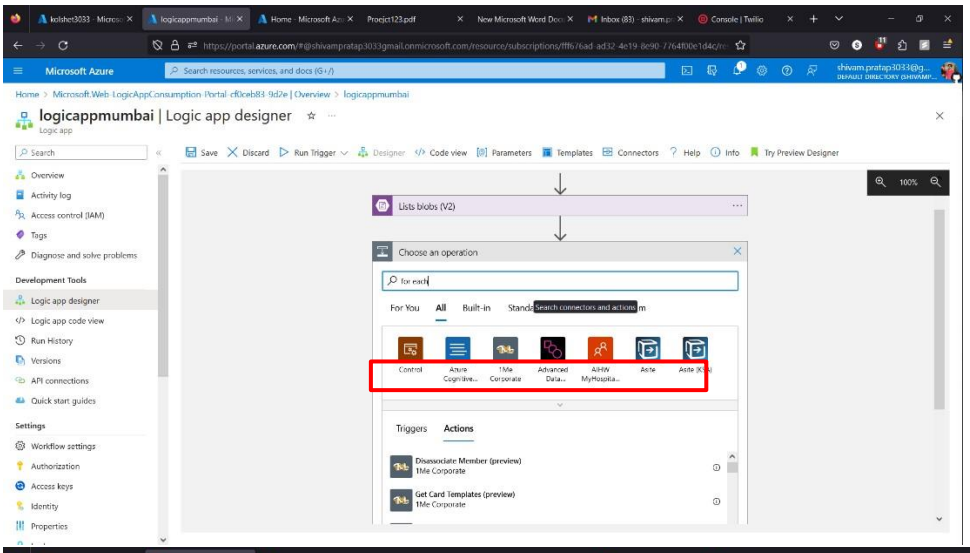
Azure Blob Storage
Triggers
Actions
Get blob content using path (V2)
Get Blob Metadata (V2)
Get Blob Metadata using path (V2)
List blobs (V2)
List blobs in the root folder (V2)
Set blob tier by path (V2)
Update blob (V2)


logicappmumbai | Logic app designer
Lists blobs (V2)
Storage account name or blob endpoint
Azure Storage account name or blob endpoint
Folder
Use connection settings(kolshet3033)
Enter custom value
Flat Listing
No
Connected to abcdblob. Change connection.
+ New step


logicappmumbai | Logic app designer
Lists blobs (V2)
Use connection settings(kolshet3033)
Specify the folder.
'Folder' is required.
Paging Marker
A marker that identifies the portion of the list to be returned with the list
Flat Listing
No
Connected to abcdblob. Change connection.
Azure Blob Storage
containerblob
containerblob
+ New step


logicappmumbai | Logic app designer
Lists blobs (V2)
Use connection settings(kolshet3033)
/containerblob
Paging Marker
A marker that identifies the portion of the list to be returned with the list
Add dynamic content
Flat Listing
No
Connected to abcdblob. Change connection.
Dynamic content
Expression
Search dynamic content
List of Files Id
List of Files Name
List of Files DisplayName
List of Files Path
List of Files LastModified
List of Files MediaType
List of Files ETag
+ New step


Microsoft Azure
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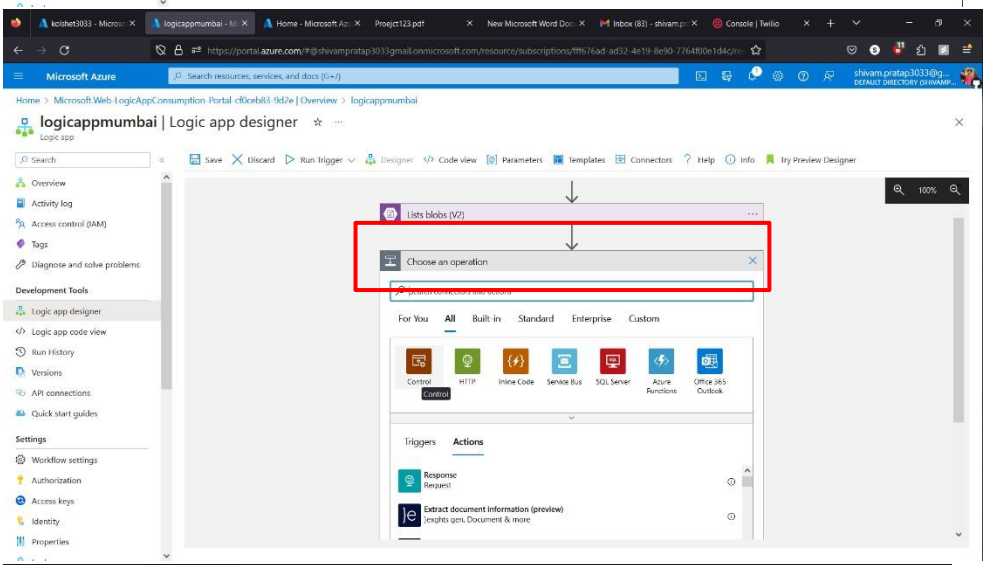
Lists blobs (V2)
Choose an operation
for each
For You
All
Built-in
Triggers
Actions
Disassociate Member (preview)
Get Card Templates (preview)


Microsoft Azure
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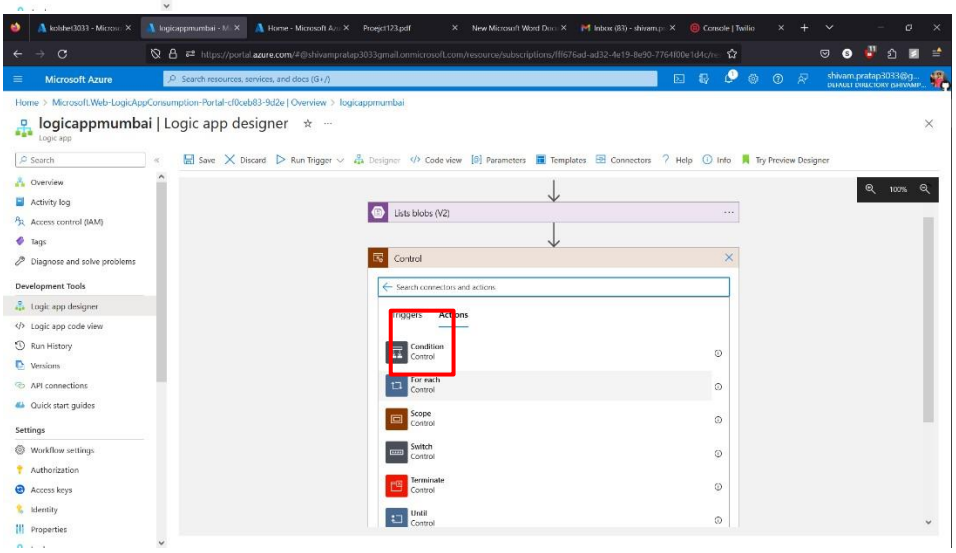
Lists blobs (V2)
Choose an operation
For You
All
Built-in
Standard
Enterprise
Custom
Control
HTTP
Inline Code
Service Bus
SQL Server
Azure Functions
Office 365 Outlook
Triggers
Actions
Response
Extract document information (preview)


Microsoft Azure
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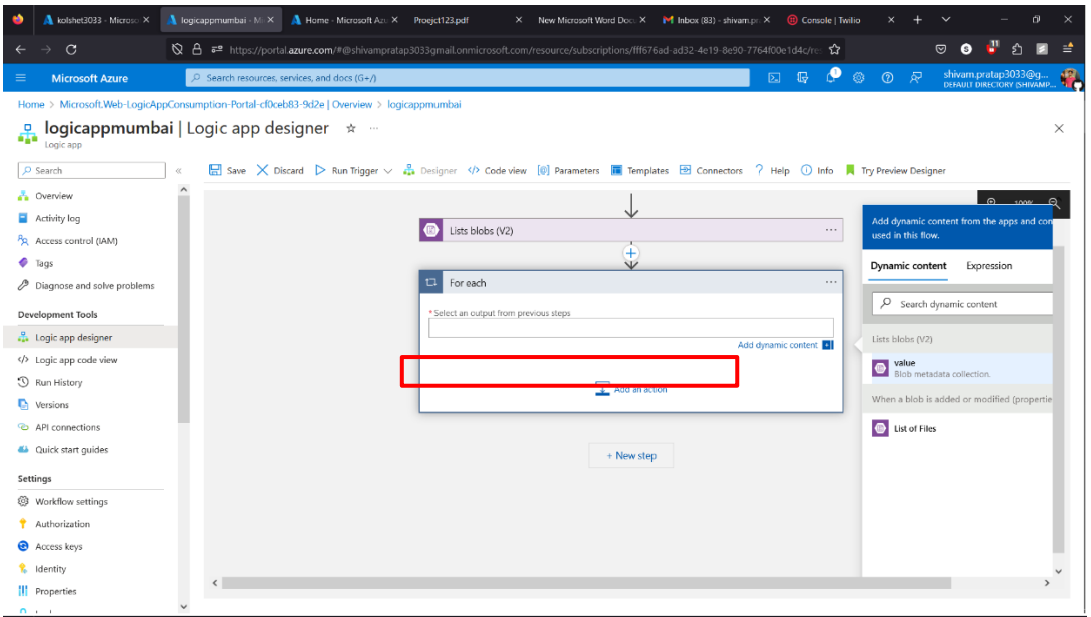
Lists blobs (V2)
Control
Condition
For each
Scope
Switch
Terminate
Until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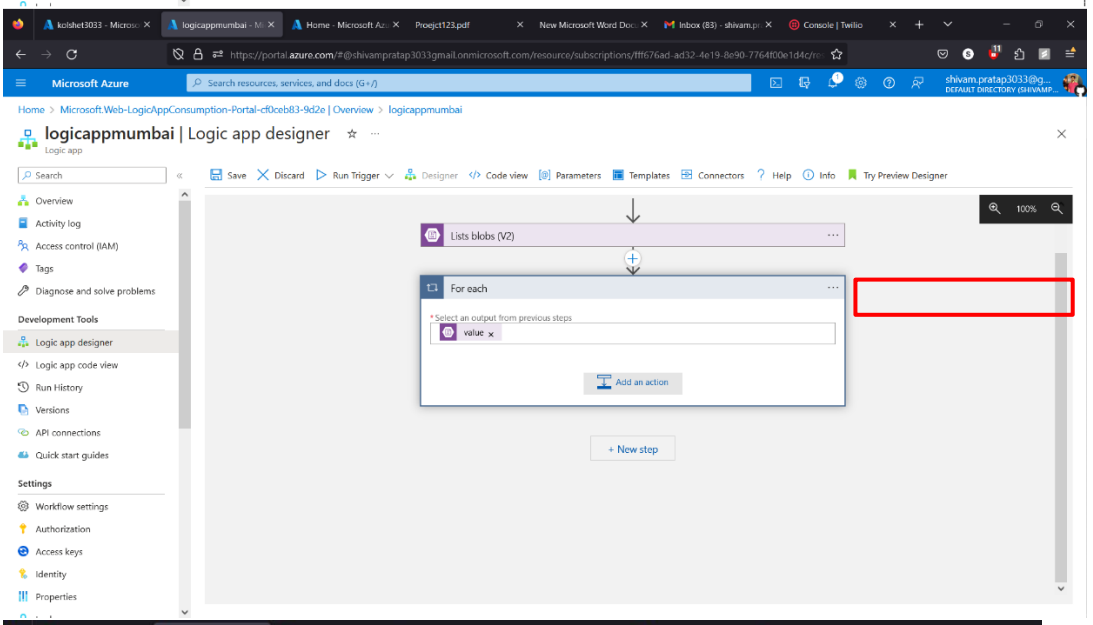
Lists blobs (V2)
For each
*Select an output from previous steps
Add dynamic content
Add an action
+ New step
Dynamic content
Expression
Search dynamic content
Lists blobs (V2)
value
Blob metadata collection.
List of Files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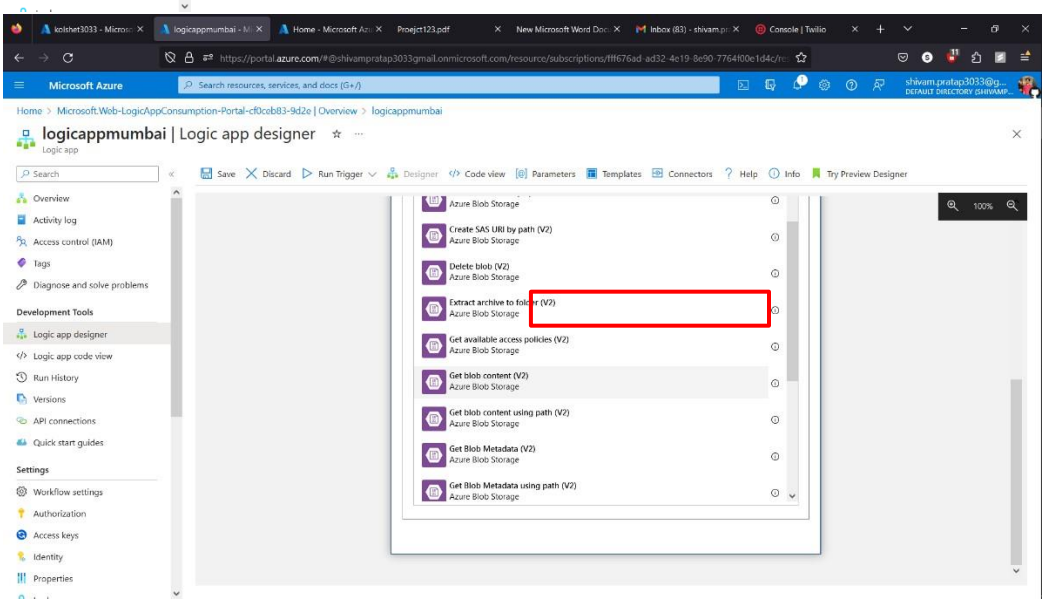
Try Preview Designer
100%
Lists blobs (V2)
For each
*Select an output from previous steps
value
Add an action
+ New step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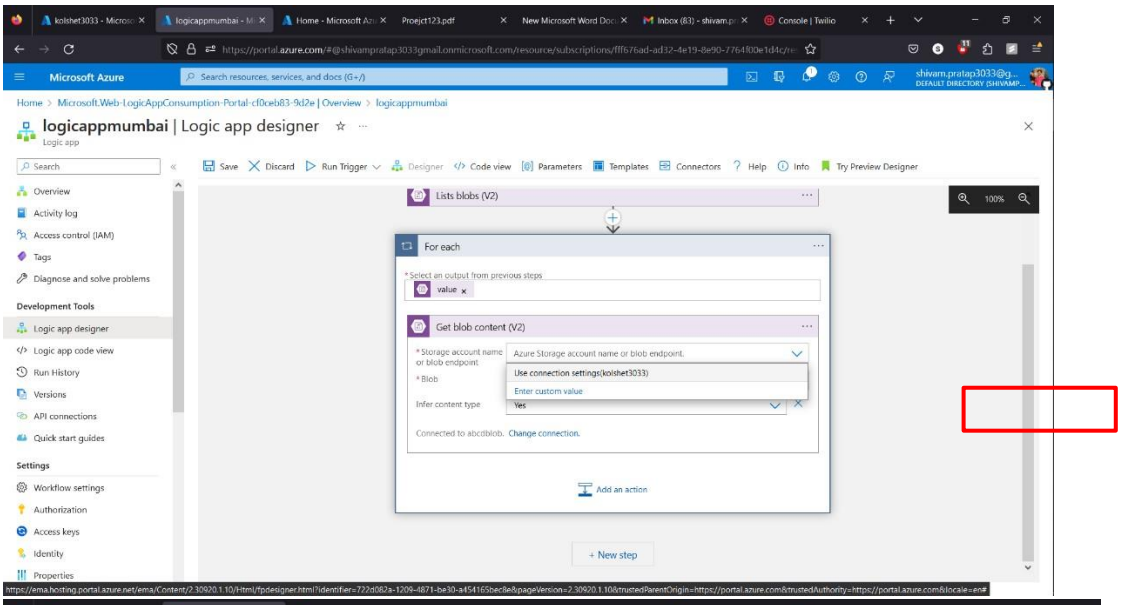
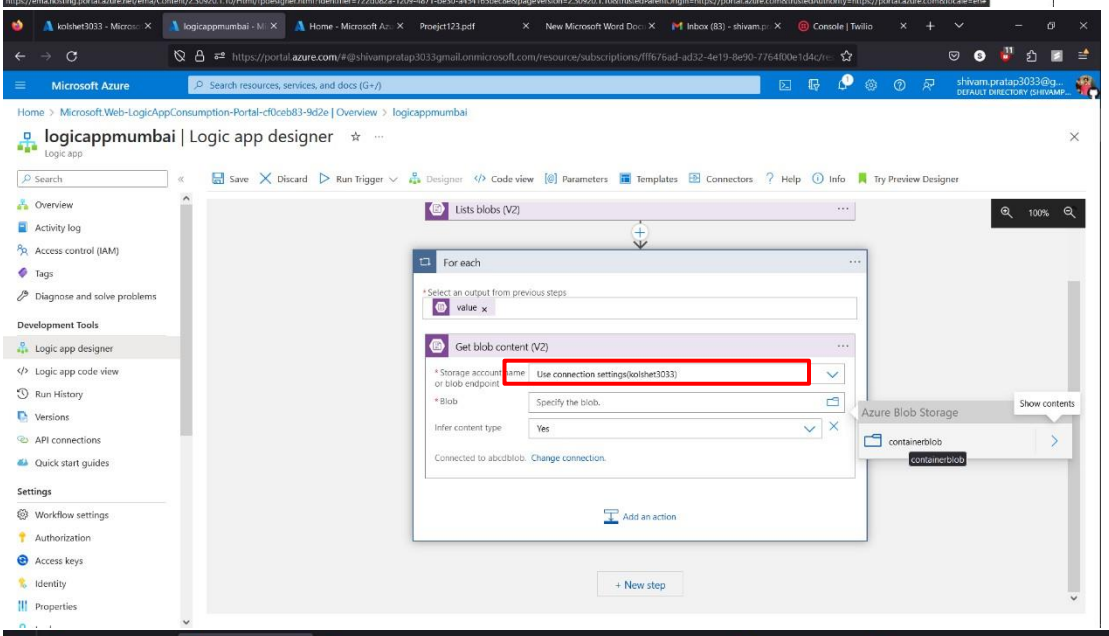
100%
Azure Blob Storage
Create SAS URI by path (V2)
Delete blob (V2)
Extract archive to folder (V2)
Get available access policies (V2)
Get blob content (V2)
Get blob content using path (V2)
Get Blob Metadata (V2)
Get Blob Metadata using path (V2)


logicappmumbai | Logic app designer
Lists blobs (V2)
For each
Get blob content (V2)
Use connection settings(kolshet3033)
Enter custom value
Add an action
+ New step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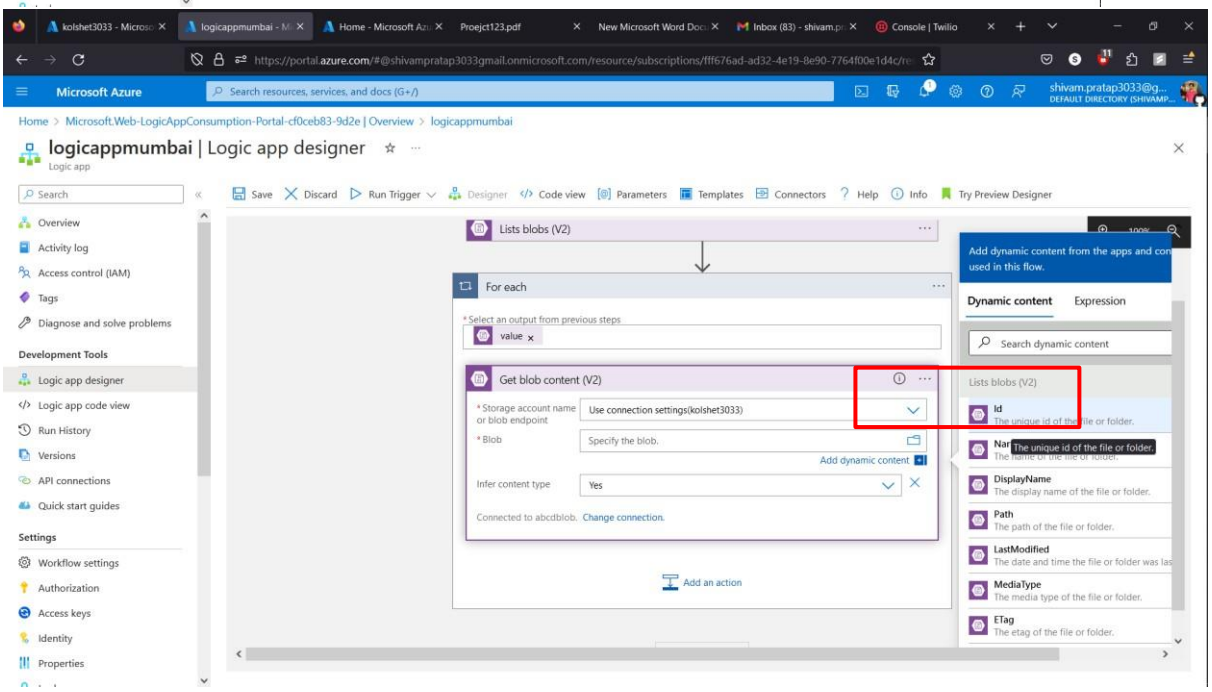
Lists blobs (V2)
For each
Get blob content (V2)
Use connection settings(kolshet3033)
Specify the blob.
Azure Blob Storage
containerblob
Show contents
Add an action
+ New step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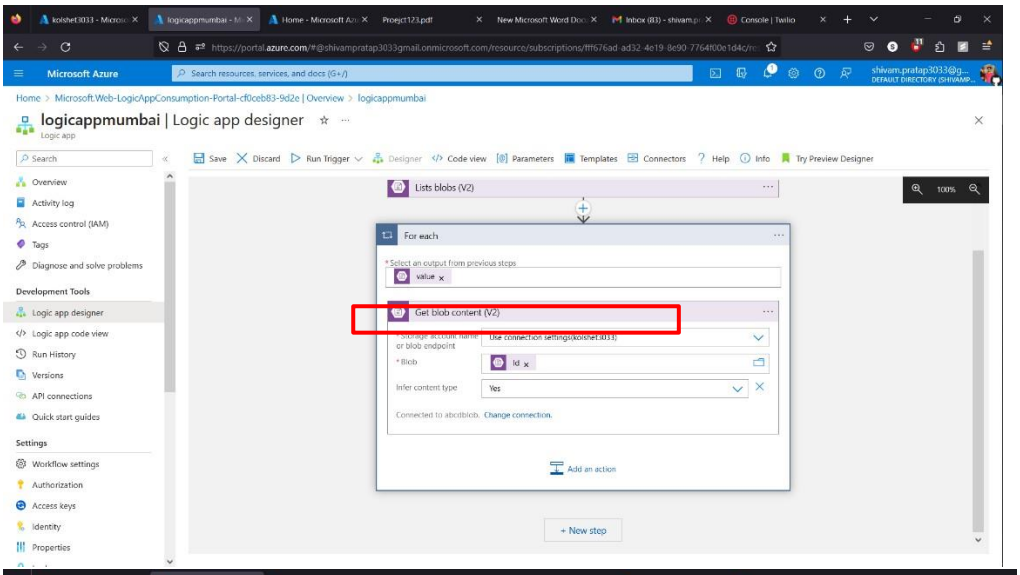
Lists blobs (V2)
For each
Get blob content (V2)
Use connection settings(kolshet3033)
Specify the blob.
Add dynamic content
Dynamic content
Expression
Search dynamic content
Lists blobs (V2)
Id
The unique id of the file or folder.
DisplayName
The display name of the file or folder.
Path
The path of the file or folder.
LastModified
MediaType
The media type of the file or folder.
ETag
The etag of the file or folder.
Add an action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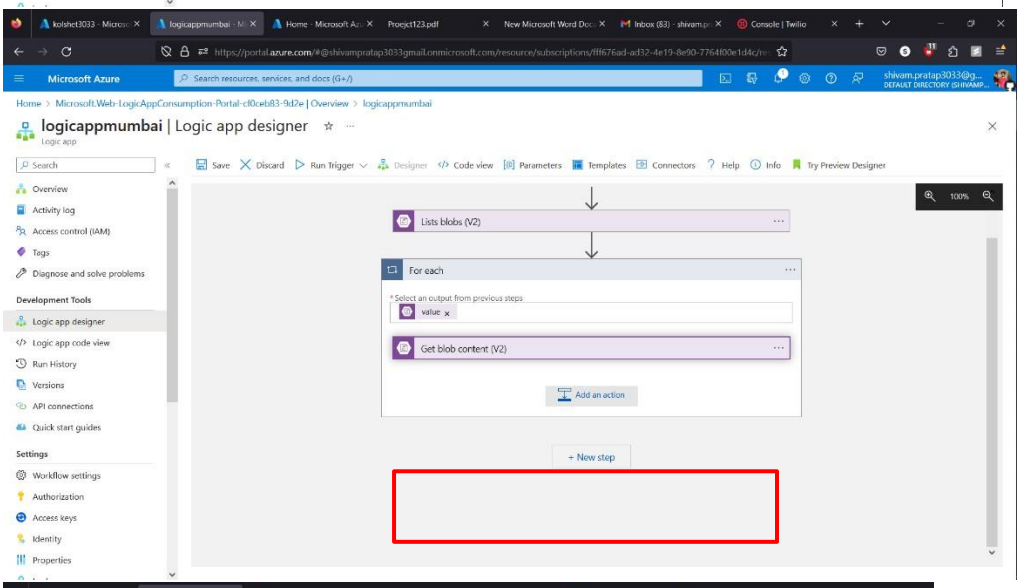
Lists blobs (V2)
For each
Get blob content (V2)
Add an action
+ New step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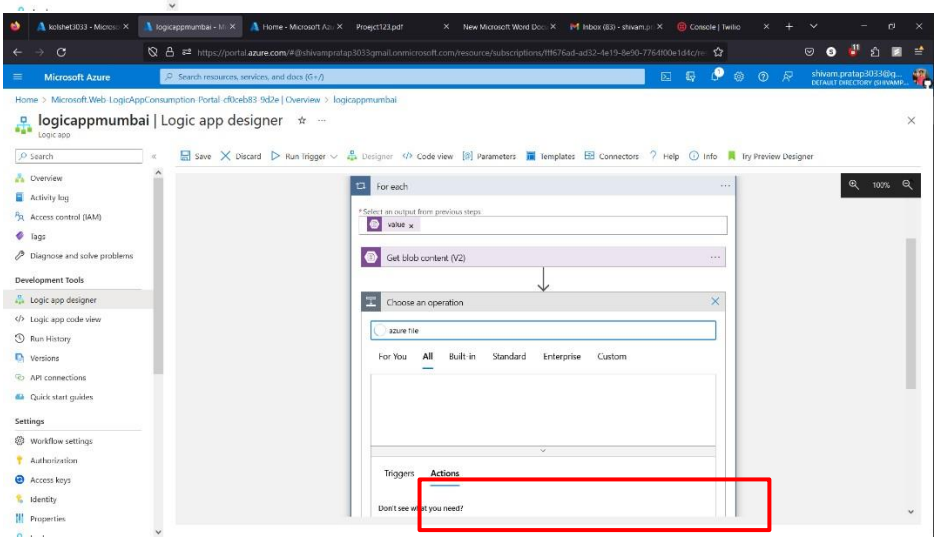
Lists blobs (V2)
For each
Get blob content (V2)
Add an action
+ New step


Microsoft Azure
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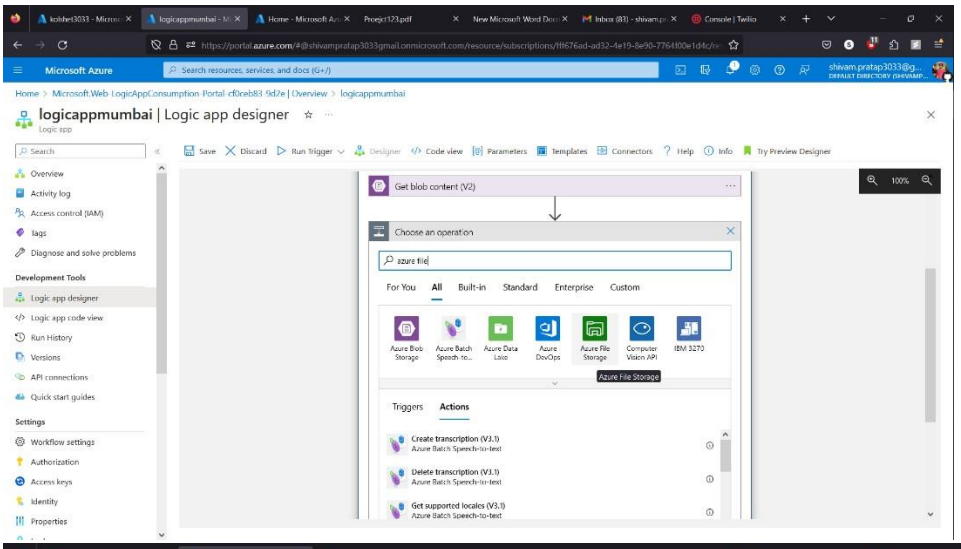
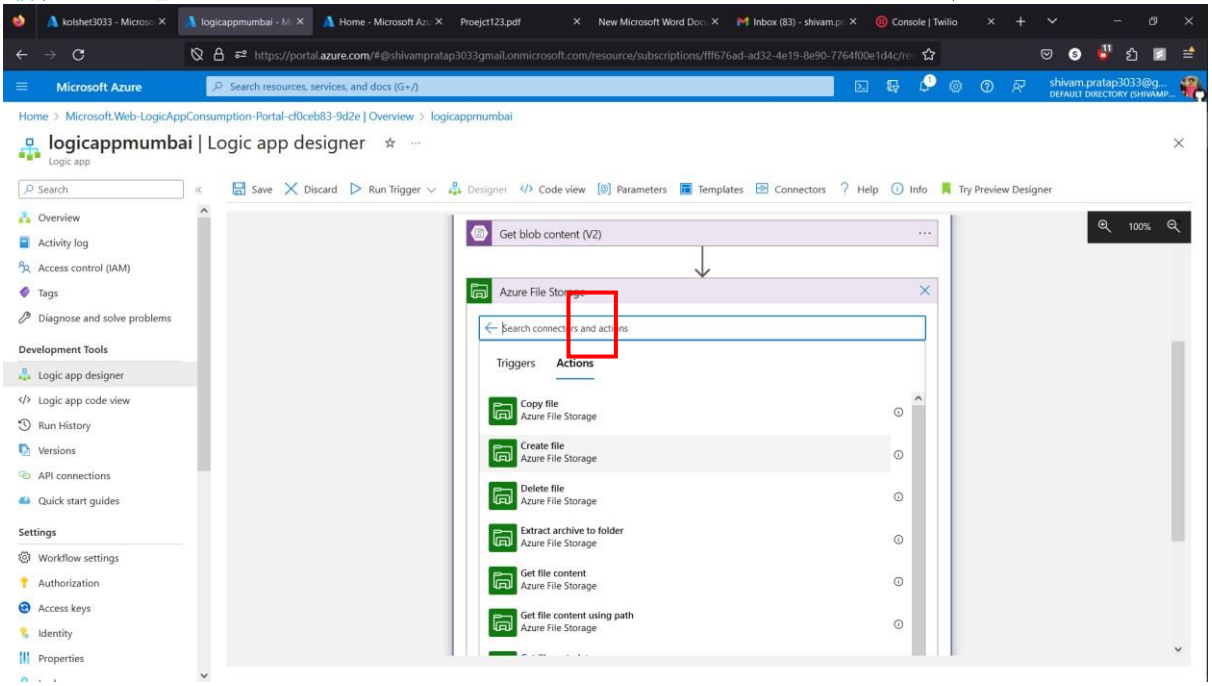
For each
Get blob content (V2)
Choose an operation
azure file
For You
All
Built-in
Standard
Enterprise
Custom
Triggers
Actions

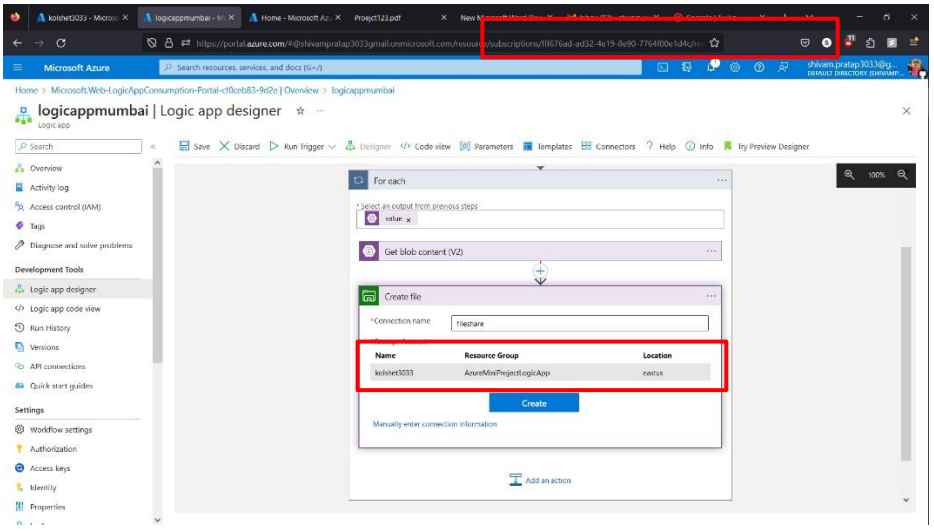


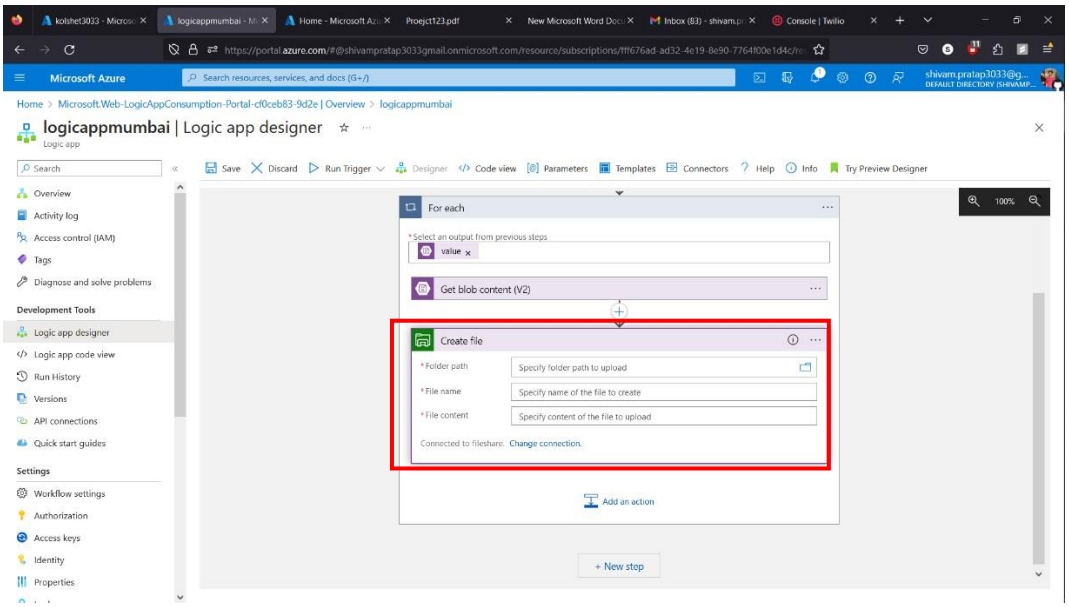


We will now connect the azure storage file share using API with the logic App.

So here all the content of blob is going Transferred to transferred to file share.

Already created file share will be visible.

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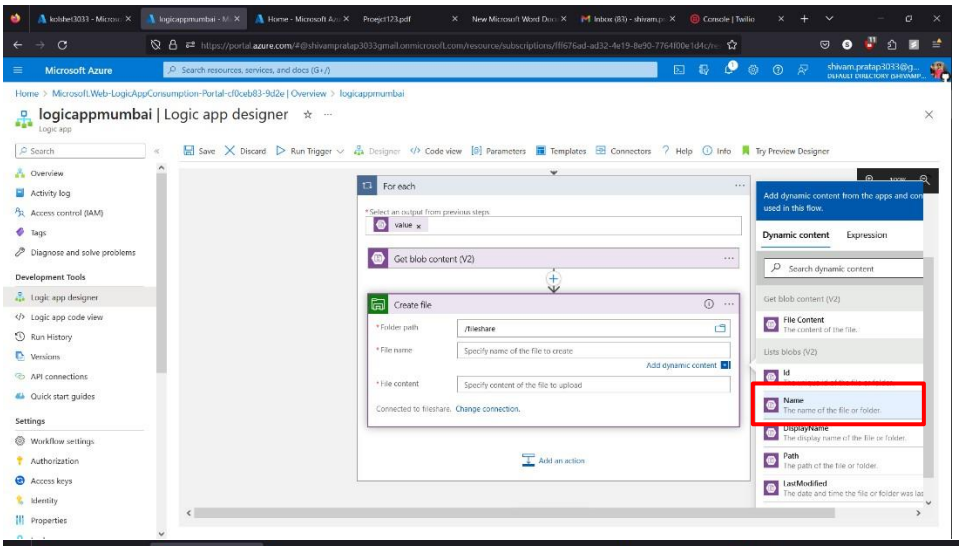
For each
* Select an output from previous steps
value
Get blob content (V2)
Create file
* Folder path
Specify folder path to upload
* File name
Specify name of the file to create
* File content
Specify content of the file to upload
Connected to fileshare. Change connection.
Add an action
+ New step
100%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Logic app
Save
Discard
Run Trigger
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Diagnose and solve problems
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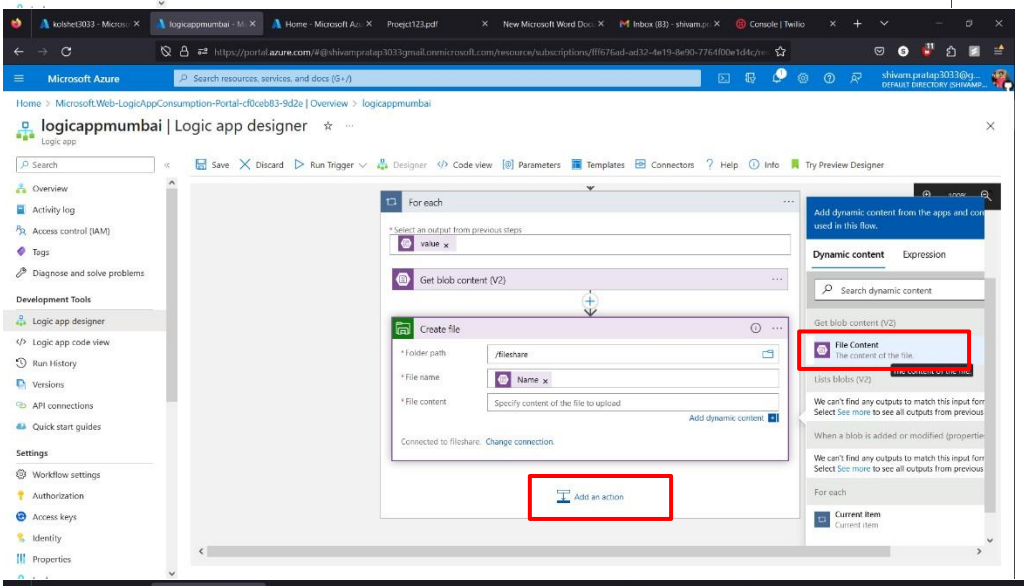
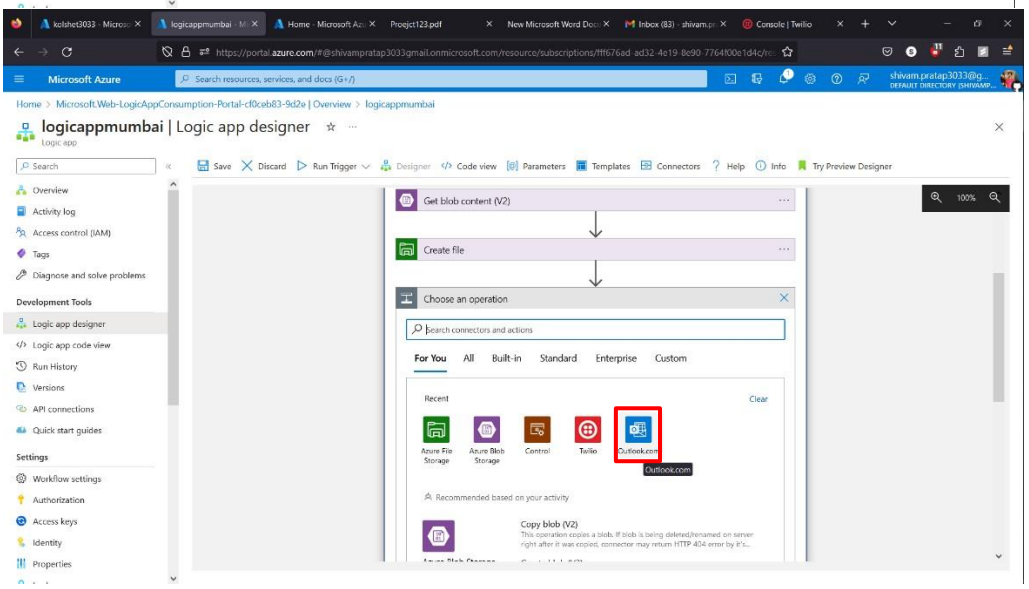
Logic app code view
Run History
Versions
API connections
Quick start guides
Settings
Workflow settings
Authorization
Access keys
Identity
Properties
For each
Select an output from previous steps
value
Get blob content (V2)
Create file
Folder path
/fileshare
File name
Specify name of the file to create
File content
Specify content of the file to upload
Add dynamic content
Connected to fileshare. Change connection.
Add an action
Dynamic content
Expression
Search dynamic content
Get blob content (V2)
File Content
The content of the file.
Lists blobs (V2)
Id
Name
The name of the file or folder.
DisplayName
Path
The path of the file or folder.
LastModified


Microsoft Azure
logicappmumbai | Logic app designer
Logic app
Save
Discard
Run Trigger
Designer
Code view
Parameters
Templates
Connectors
Help
Info
Try Preview Designer
For each
Select an output from previous steps
value
Get blob content (V2)
Create file
Folder path
/fileshare
File name
Name
File content
Specify content of the file to upload
Add dynamic content
Connected to fileshare. Change connection.
Add an action
Dynamic content
Expression
Search dynamic content
Get blob content (V2)
File Content
The content of the file.
Lists blobs (V2)
For each
Current item


Microsoft Azure
logicappmumbai | Logic app designer
Logic app
Save
Discard
Run Trigger
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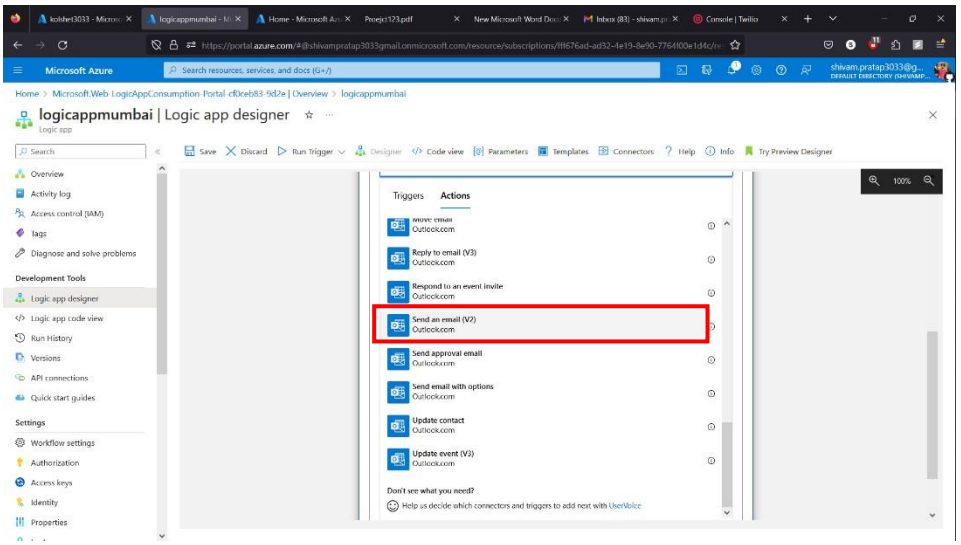
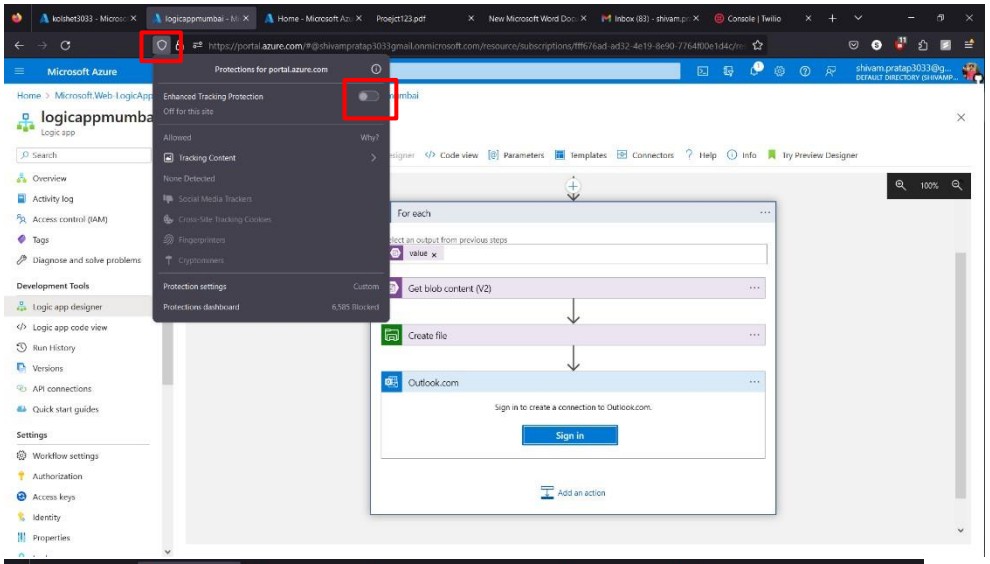
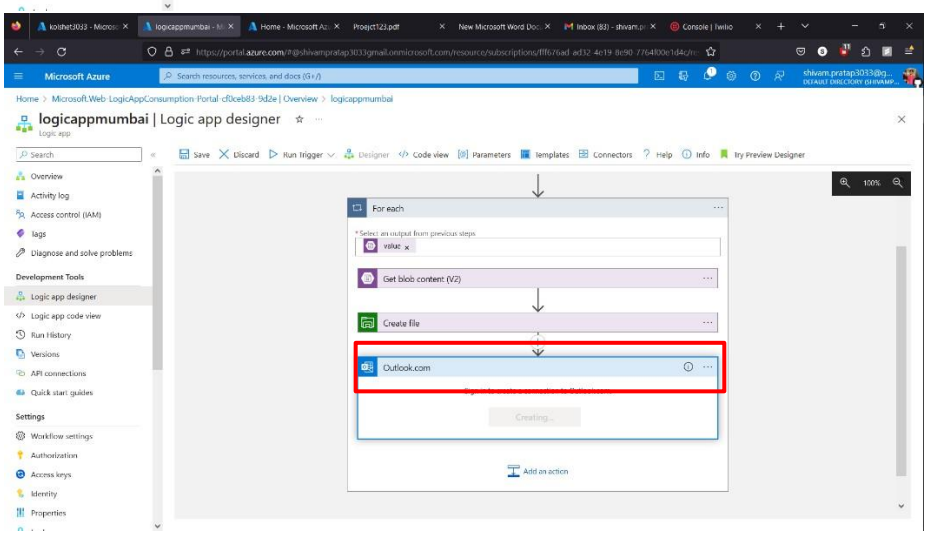
Help
Info
Try Preview Designer
Get blob content (V2)
Create file
Choose an operation
Search connectors and actions
For You
All
Built-in
Standard
Enterprise
Custom
Recent
Clear
Azure File Storage
Azure Blob Storage
Control
Twilio
Outlook.com
Recommended based on your activity
Copy blob (V2)

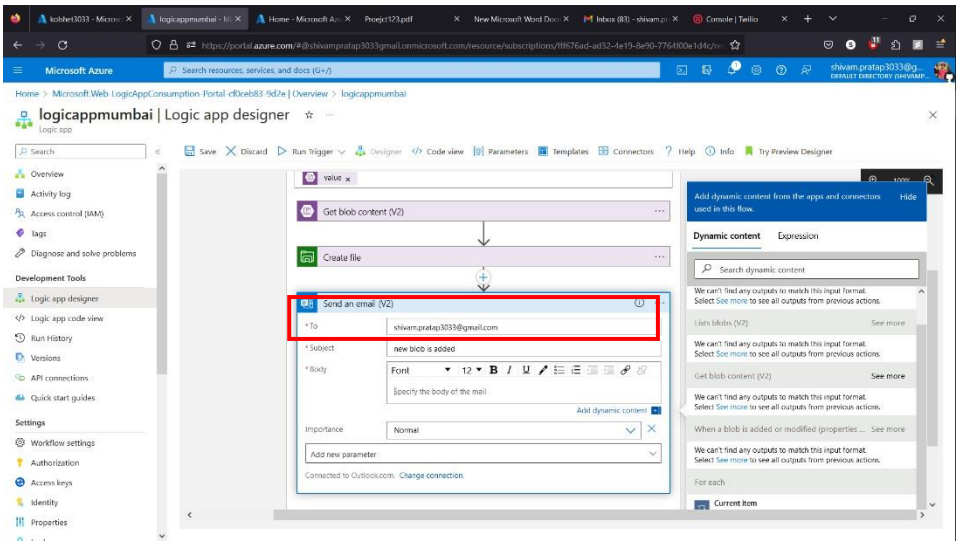


Turn this off when login to Outlook.com.

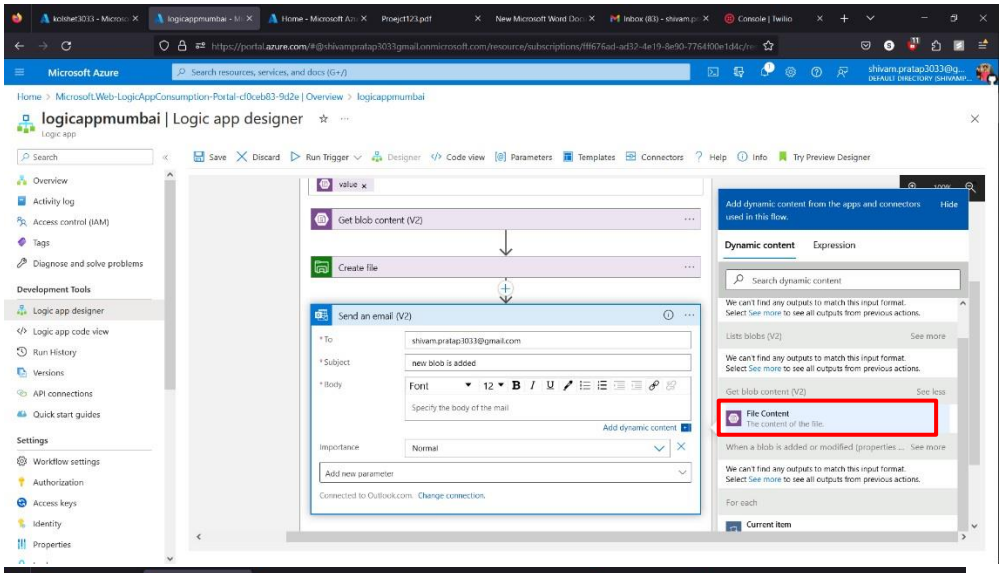


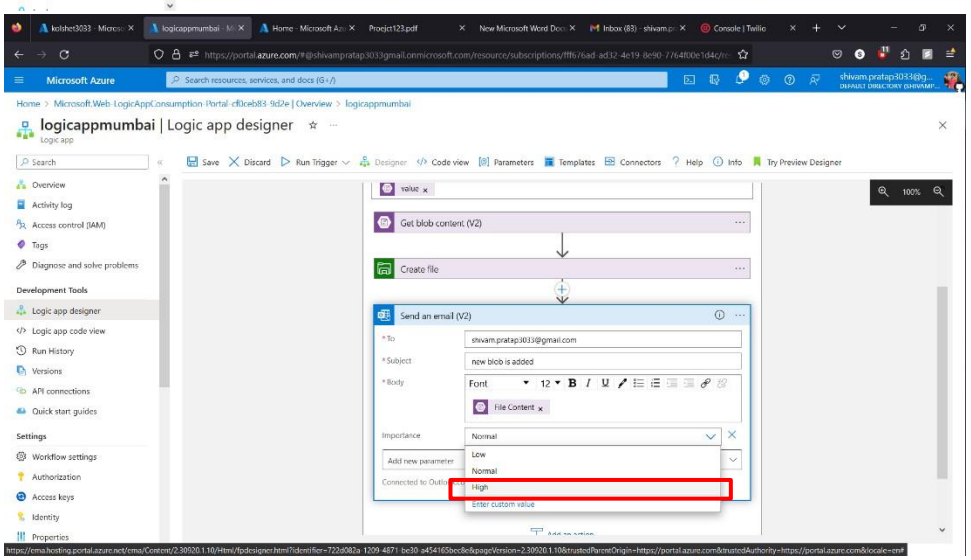


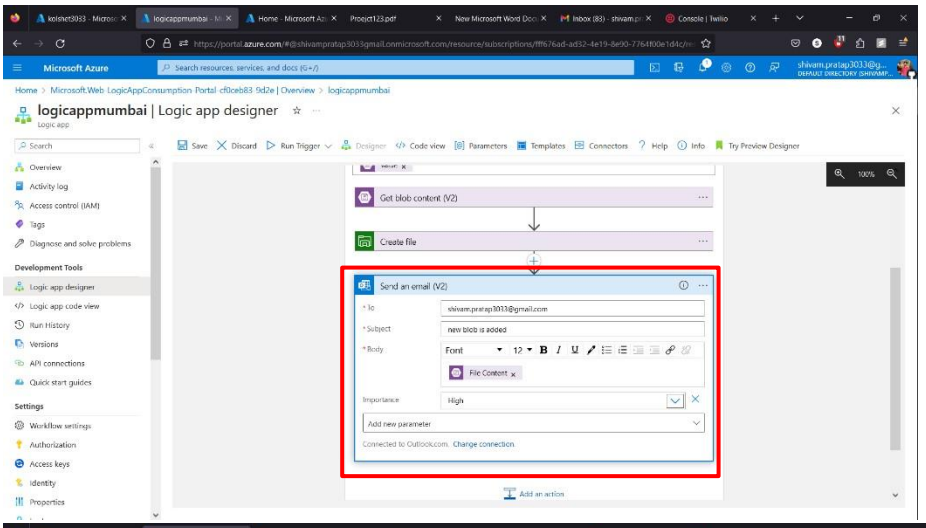
Fill the Email Id at which you want the Email

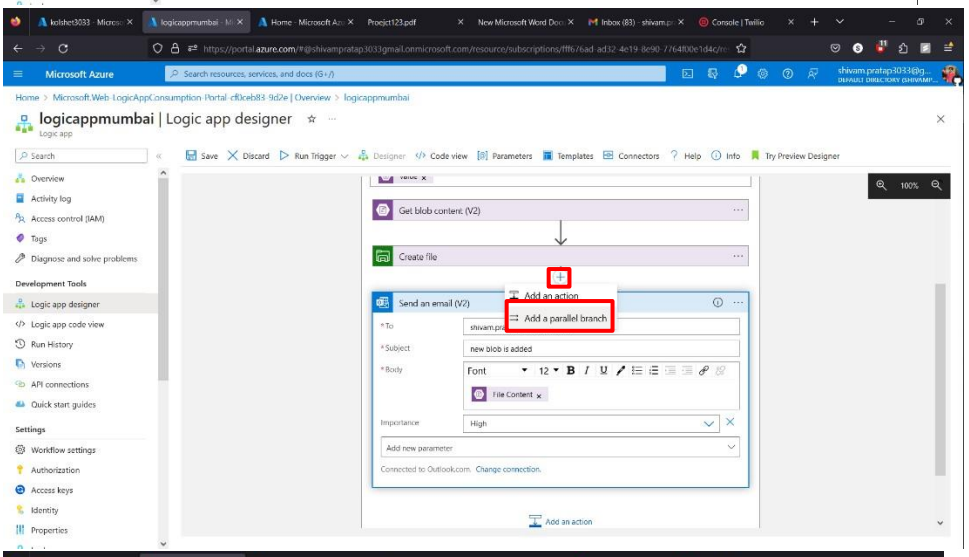


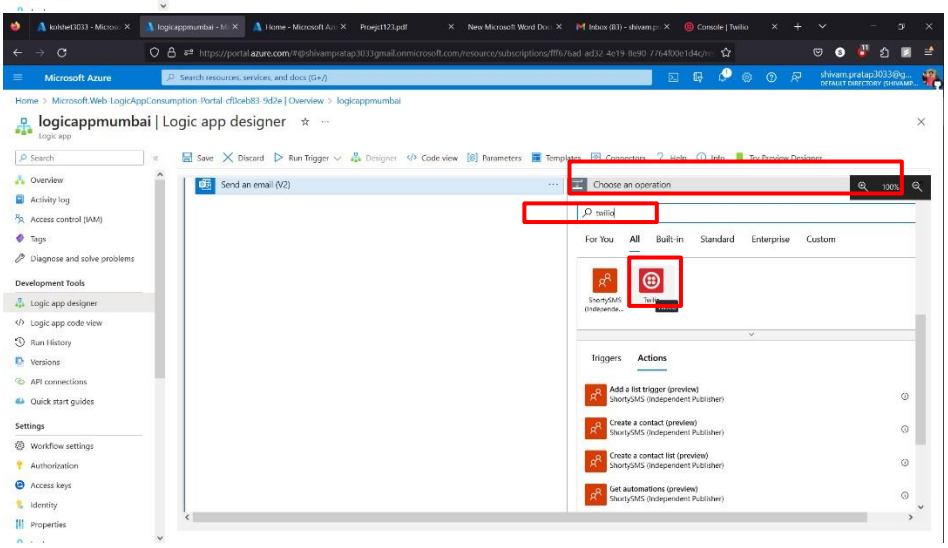
To get the content to email Id which is added to Blob

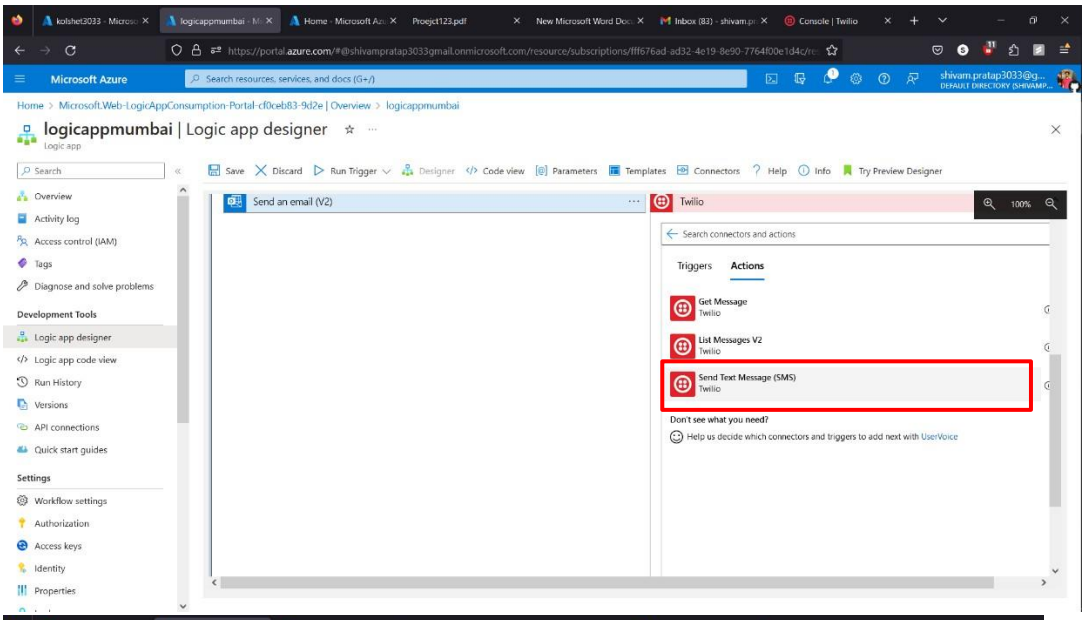





logicappmumbai | Logic app designer
Get blob content (V2)
Create file
Send an email (V2)
new blob is added
File Content
High
Add new parameter
Add an action


logicappmumbai | Logic app designer
Get blob content (V2)
Create file
Add an action
Add a parallel branch
Send an email (V2)
new blob is added
File Content
High
Add new parameter
Add an action


logicappmumbai | Logic app designer
Send an email (V2)
Choose an operation
twilio
For You
All
Built-in
Standard
Enterprise
Custom
Triggers
Actions
Add a list trigger (preview)
Create a contact (preview)
Create a contact list (preview)
Get automations (preview)


Microsoft Azure
Home > Microsoft.Web-LogicAppConsumption-Portal-cf0ceb83-9d2e | Overview > logicappmumbai
logicappmumbai | Logic app designer
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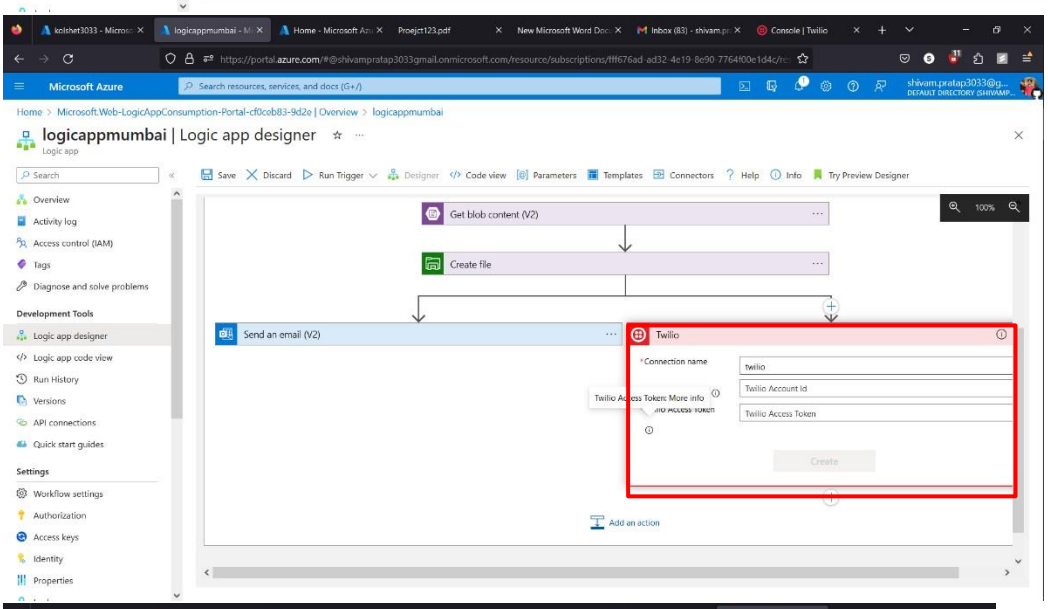
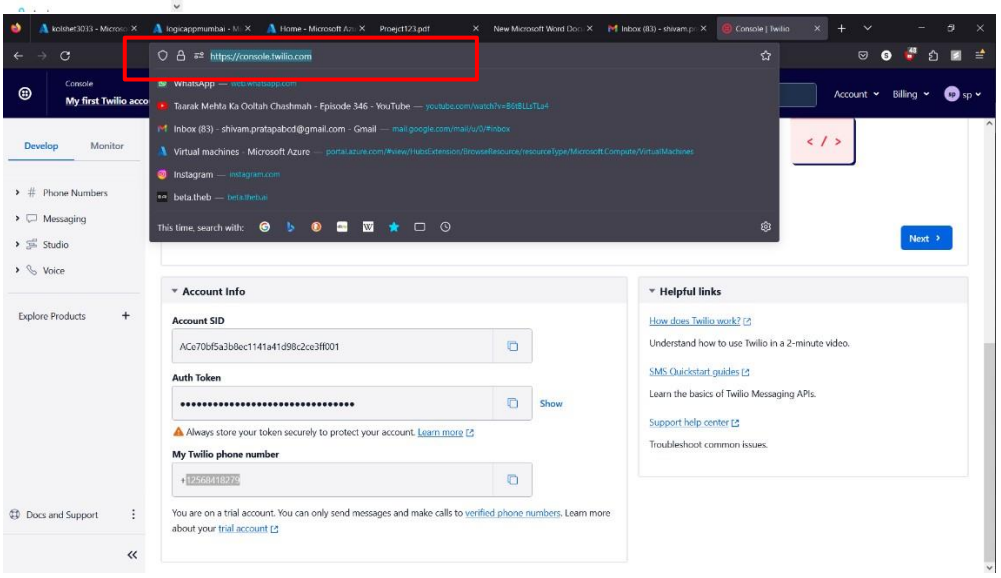
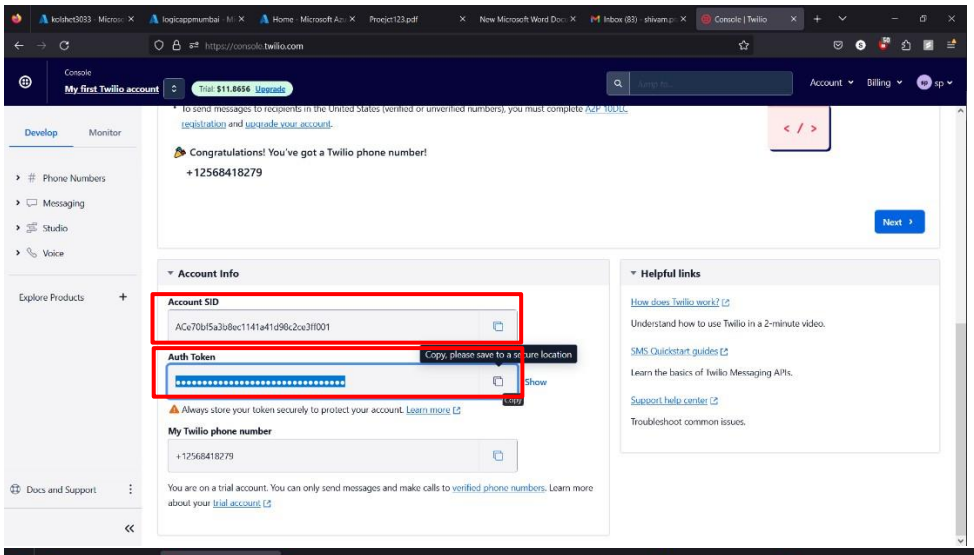
Search connectors and actions
Triggers
Actions
Get Message
Twilio
List Messages V2
Twilio
Send Text Message (SMS)
Twilio
Don't see what you need?
Help us decide which connectors and triggers to add next with UserVoice


Microsoft Azure
Home > Microsoft.Web-LogicAppConsumption-Portal-cf0ceb83-9d2e | Overview > logicappmumbai
logicappmumbai | Logic app designer
Logic app
Get blob content (V2)
Create file
Send an email (V2)
Twilio
*Connection name
Twilio
Twilio Account Id
Twilio Access Token
Create
Add an action


https://console.twilio.com
Develop
Monitor
Phone Numbers
Messaging
Studio
Voice
Explore Products
Docs and Support
Account Info
Account SID
ACe70bf5a3b8ec1141a41d98c2ce3ff001
Auth Token
Show
Always store your token securely to protect your account. Learn more
My Twilio phone number
+12568418279
You are on a trial account. You can only send messages and make calls to verified phone numbers. Learn more about your trial account
Helpful links
How does Twilio work?
Understand how to use Twilio in a 2-minute video.
SMS Quickstart guides
Learn the basics of Twilio Messaging APIs.
Support help center
Troubleshoot common issues.
Next


Console
My first Twilio account
Trial: $11.8656 Upgrade
Account
Billing
Develop
Monitor
Phone Numbers
Messaging
Studio
Voice
Explore Products
Docs and Support
Congratulations! You've got a Twilio phone number!
+12568418279
Next
Account Info
Account SID
ACe70bf5a3b8ec1141a41d90c2ce3ff001
Auth Token
Copy, please save to a secure location
Show
Always store your token securely to protect your account. Learn more
My Twilio phone number
+12568418279
You are on a trial account. You can only send messages and make calls to verified phone numbers. Learn more about your trial account
Helpful links
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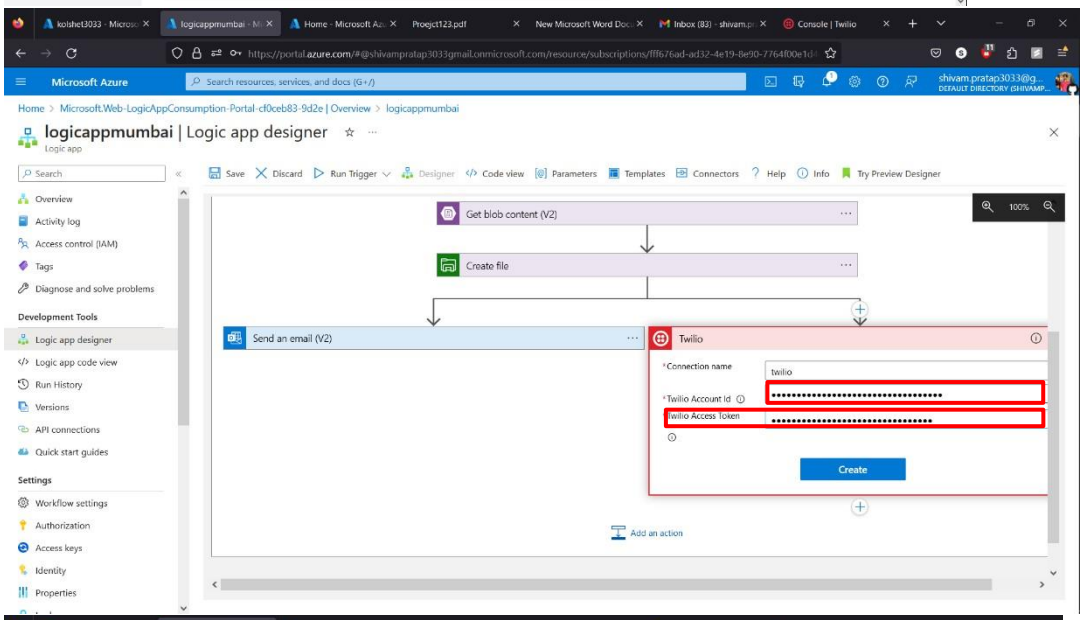
Troubleshoot common issues.


Microsoft Azure
Home > Microsoft.Web-LogicAppConsumption-Portal-cf0ceb83-9d2e | Overview > logicappmumbai
logicappmumbai | Logic app designer
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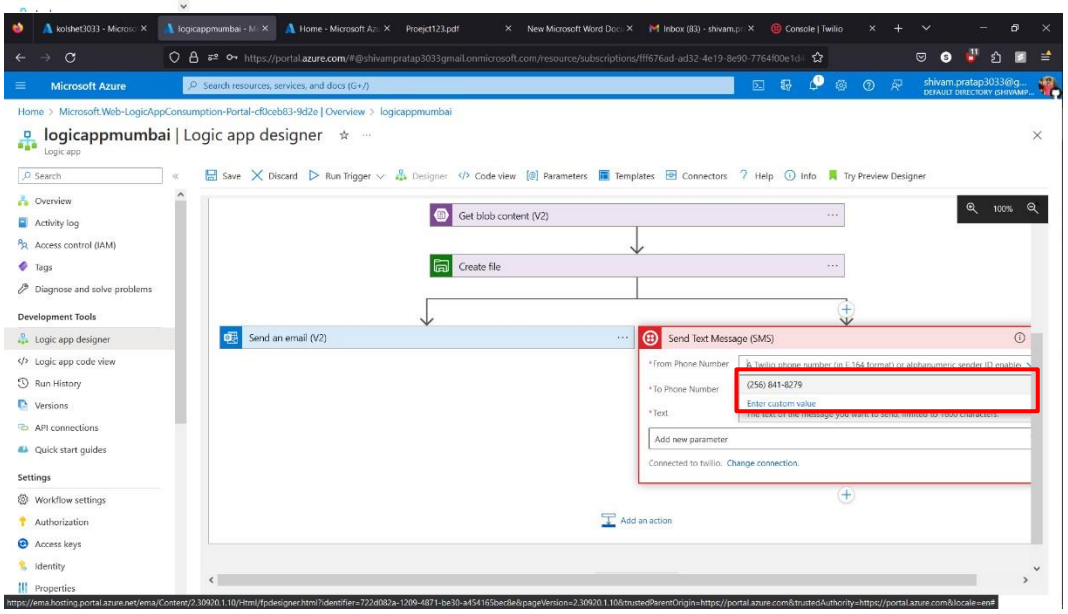
Identity
Properties
Get blob content (V2)
Create file
Send an email (V2)
Twilio
Connection name
twilio
Twilio Account Id
Twilio Access Token
Create
Add an action


Microsoft Azure
Home > Microsoft.Web-LogicAppConsumption-Portal-cf0ceb83-9d2e | Overview > logicappmumbai
logicappmumbai | Logic app designer
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Discard
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Quick start guides
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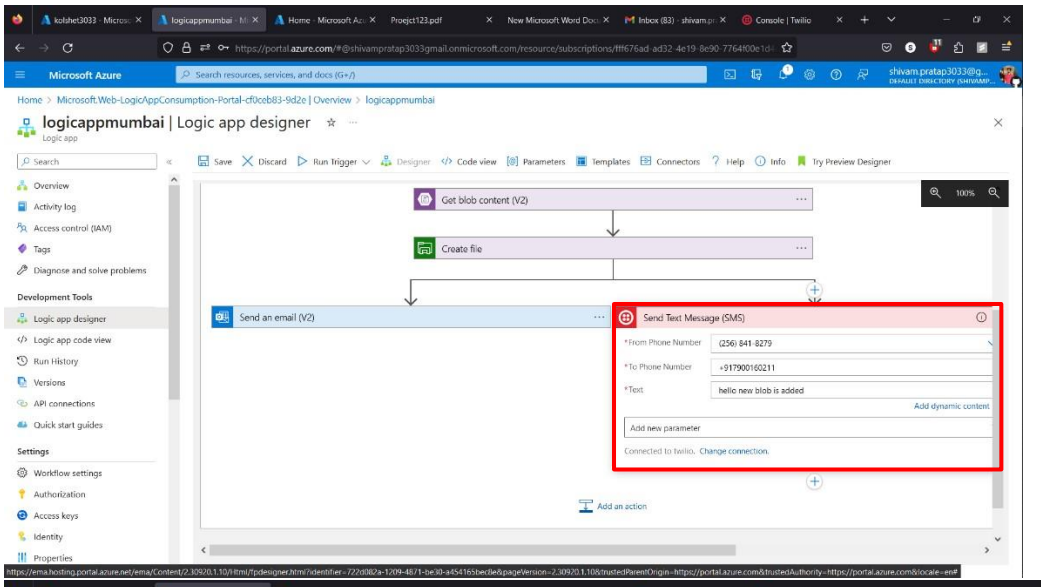
Workflow settings
Authorization
Access keys
Identity
Properties
Get blob content (V2)
Create file
Send an email (V2)
Send Text Message (SMS)
From Phone Number
To Phone Number
(256) 841-8279
Enter custom value
Text
Add new parameter
Connected to twilio. Change connection.
Add an action


logicappmumbai | Logic app designer
Logic app
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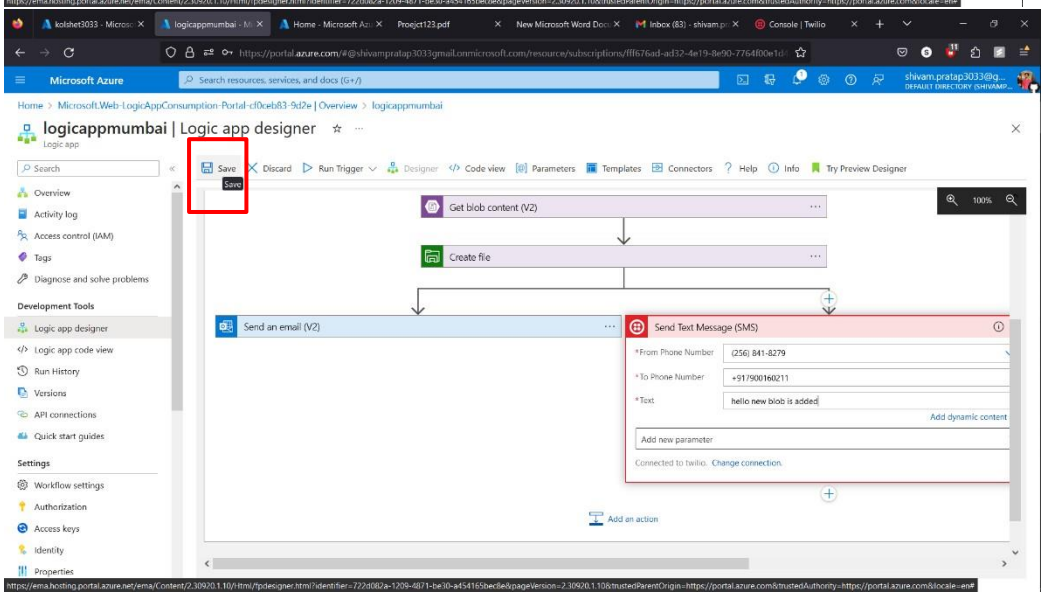
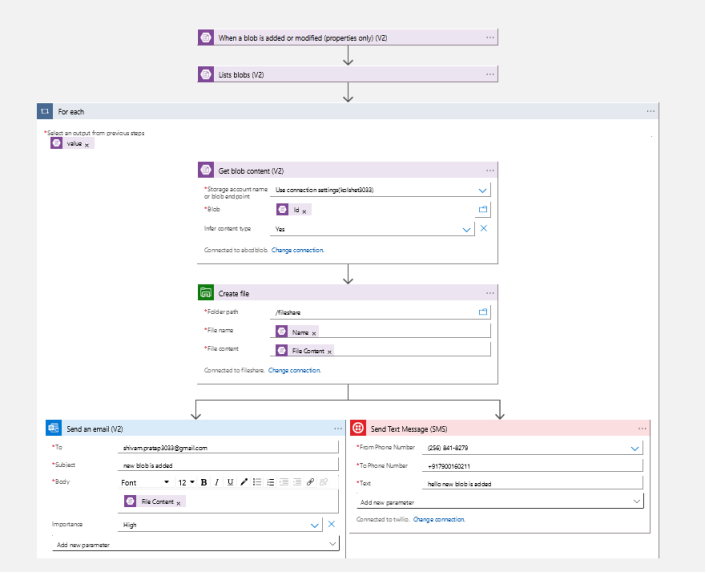
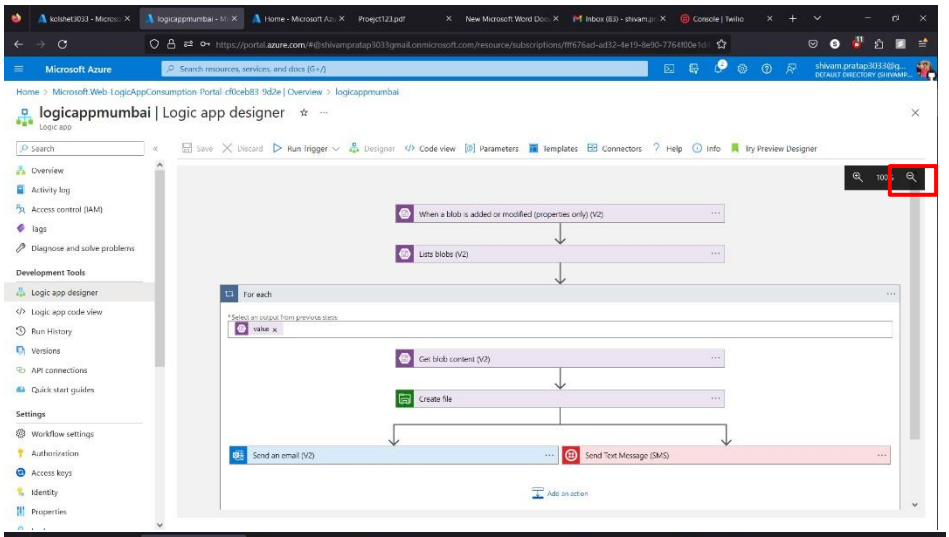
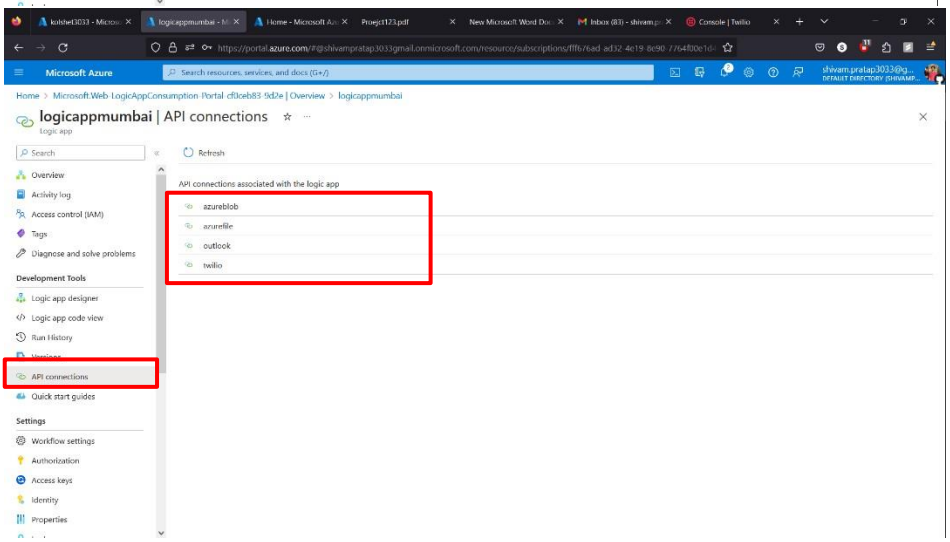
Discard
Run Trigger
Designer
Code view
Parameters
Templates
Connectors
Help
Info
Try Preview Designer
Get blob content (V2)
Create file
Send an email (V2)
Send Text Message (SMS)
*From Phone Number
(256) 841-8279
*To Phone Number
+917900160211
*Text
hello new blob is added
Add dynamic content
Add new parameter
Connected to twilio. Change connection.
Add an action

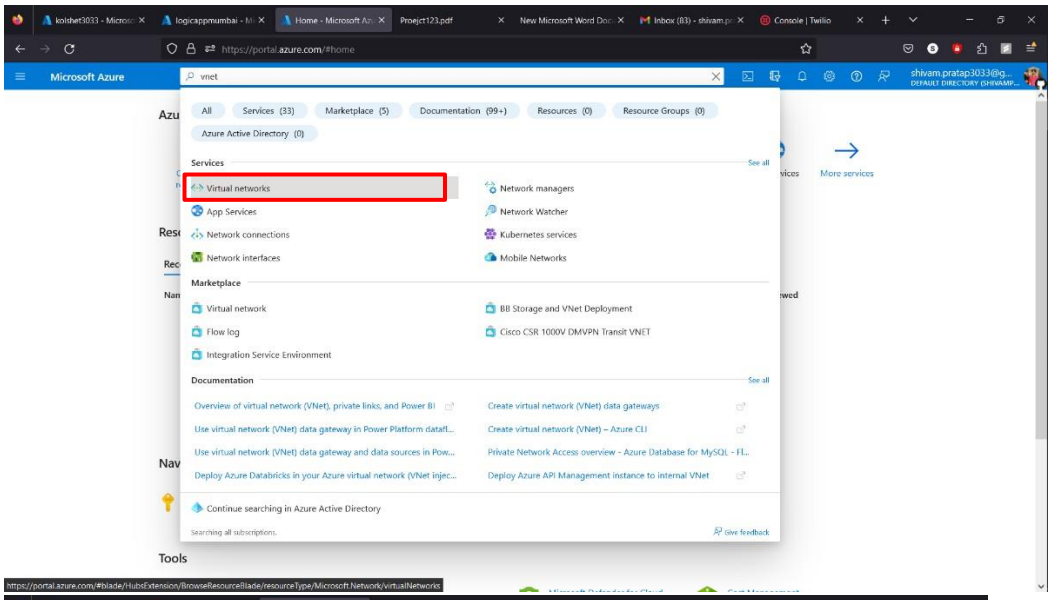

logicappmumbai | Logic app designer
Logic app
Save
Discard
Run Trigger
Designer
Code view
Parameters
Templates
Connectors
Help
Info
Try Preview Designer
Get blob content (V2)
Create file
Send an email (V2)
Send Text Message (SMS)
*From Phone Number
(256) 841-8279
*To Phone Number
+917900160211
*Text
hello new blob is added
Add dynamic content
Add new parameter
Connected to twilio. Change connection.
Add an action

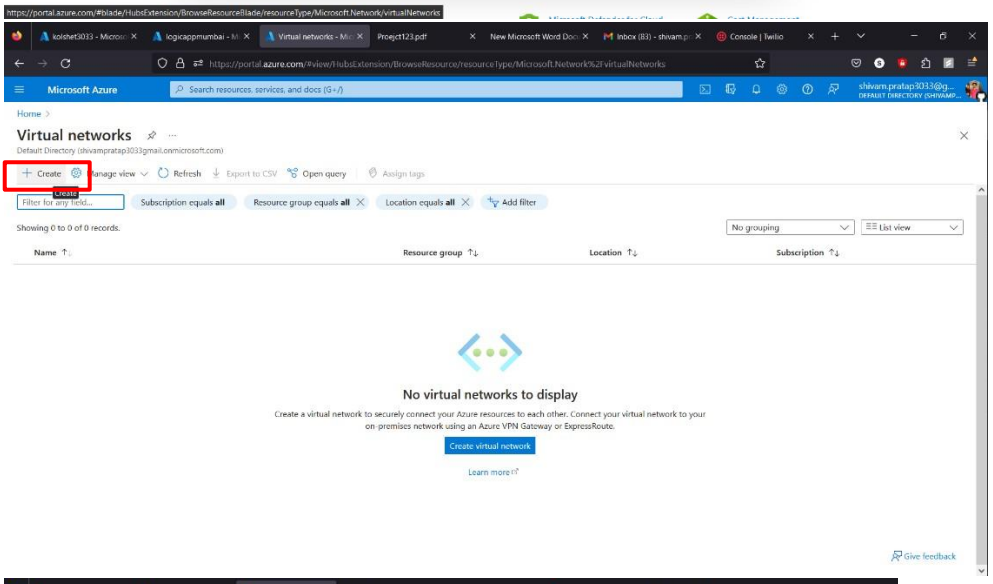

When a blob is added or modified (properties only) (V2)
Lists blobs (V2)
For each
Get blob content (V2)
Create file
Send an email (V2)
Send Text Message (SMS)

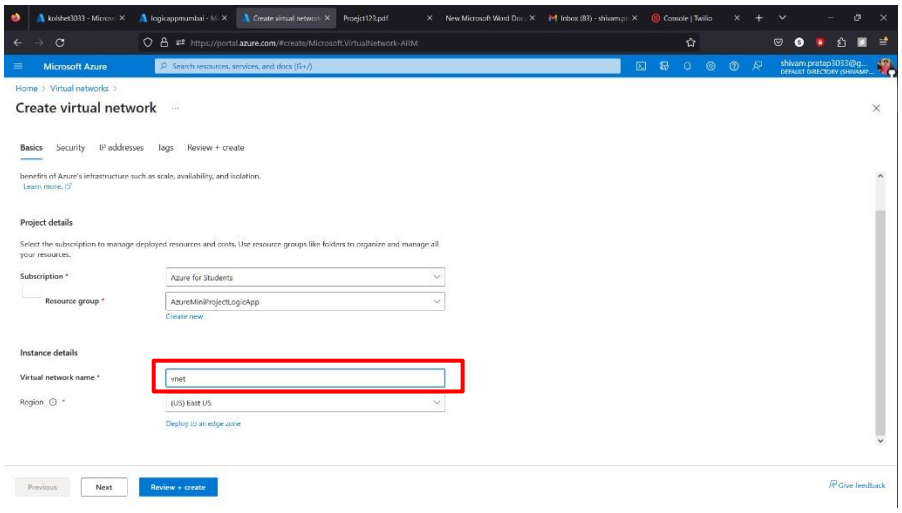


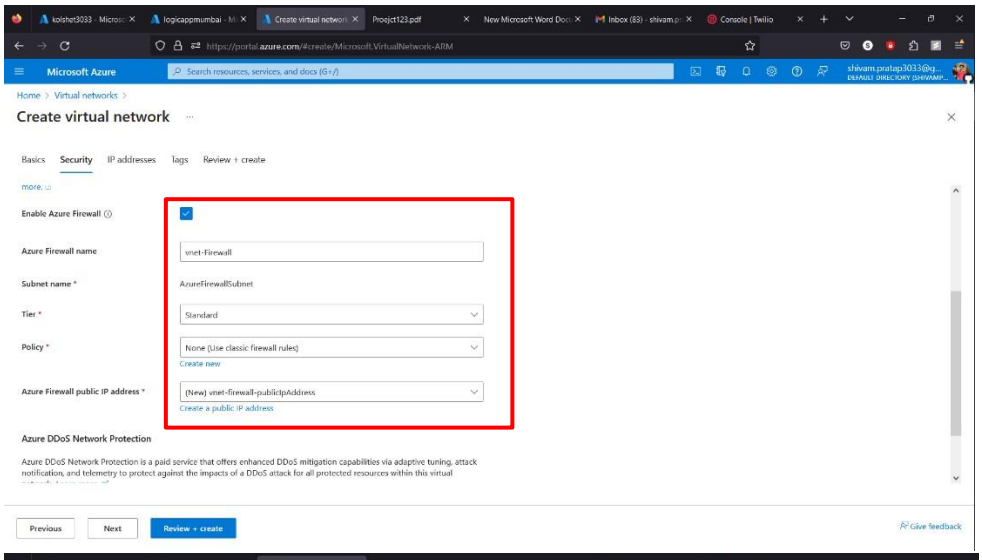


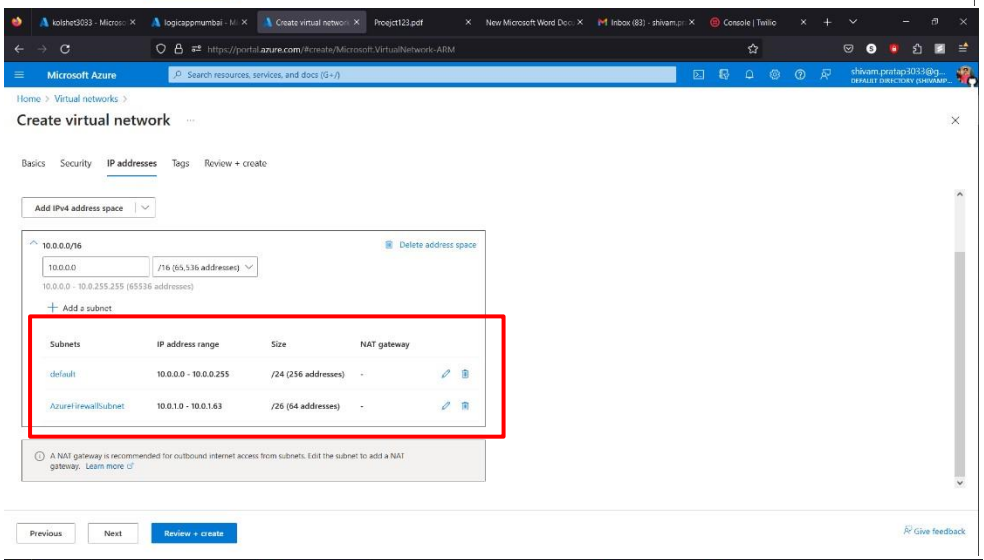
Now create a Virtual network for virtual machine and firewall

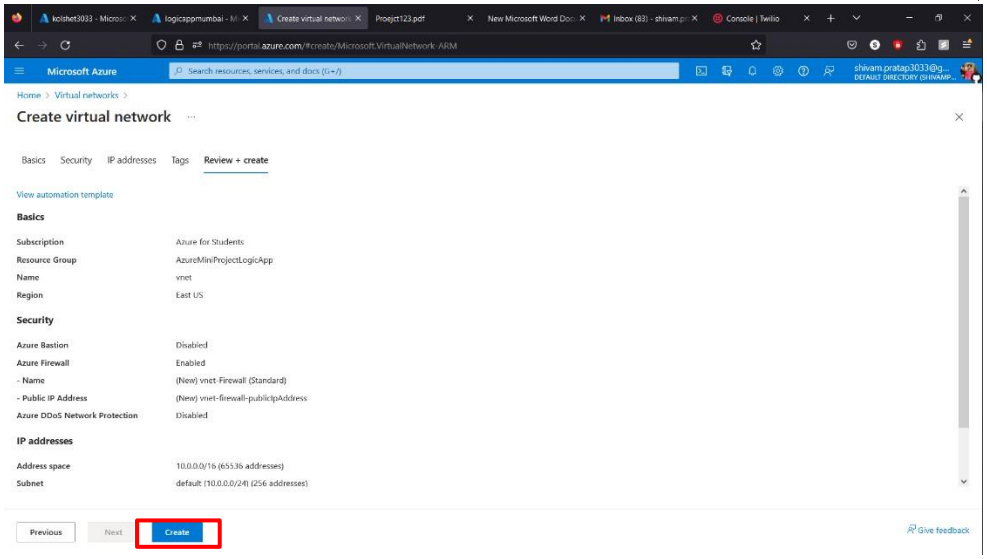

Microsoft Azure
vnet
All
Services (33)
Marketplace (5)
Documentation (99+)
Resources (0)
Resource Groups (0)
Azure Active Directory (0)
Services
Virtual networks
App Services
Network connections
Network interfaces
Network managers
Network Watcher
Kubernetes services
Mobile Networks
Marketplace
Virtual network
Flow log
Integration Service Environment
BB Storage and VNet Deployment
Cisco CSR 1000V DMVPN Transit VNET
Documentation
Overview of virtual network (VNet), private links, and Power BI
Use virtual network (VNet) data gateway in Power Platform dataflows
Use virtual network (VNet) data gateway and data sources in Pow...
Deploy Azure Databricks in your Azure virtual network (VNet injec...
Create virtual network (VNet) data gateways
Create virtual network (VNet) – Azure CLI
Private Network Access overview - Azure Database for MySQL - Fl...
Deploy Azure API Management instance to internal VNet
Continue searching in Azure Active Directory
Searching all subscriptions.
Give feedback
More services
Tools


https://portal.azure.com/#blade/HubsExtension/BrowseResourceBlade/resourceType/Microsoft.Network/virtualNetworks
Microsoft Azure
Home
Virtual networks
Default Directory (shivampratap3033gmail.onmicrosoft.com)
Create
Manage view
Refresh
Export to CSV
Open query
Assign tags
Filter for any field...
Subscription equals all
Resource group equals all
Location equals all
Add filter
Showing 0 to 0 of 0 records.
No grouping
List view
Name
Resource group
Location
Subscription
No virtual networks to display
Create a virtual network to securely connect your Azure resources to each other. Connect your virtual network to your on-premises network using an Azure VPN Gateway or ExpressRoute.
Create virtual network
Learn more
Give feedback


Microsoft Azure
Home > Virtual networks >
Create virtual network
Basics
Security
IP addresses
Tags
Review + create
Project details
Subscription *
Azure for Students
Resource group *
AzureMiniProjectLogicApp
Create new
Instance details
Virtual network name *
vnet
Region *
(US) East US
Deploy to an edge zone
Previous
Next
Review + create
Give feedback


Microsoft Azure
Home > Virtual networks >
Create virtual network
Basics
Security
IP addresses
Tags
Review + create
Enable Azure Firewall
Azure Firewall name
vnet-Firewall
Subnet name *
AzureFirewallSubnet
Tier *
Standard
Policy *
None (Use classic firewall rules)
Create new
Azure Firewall public IP address *
(New) vnet-firewall-publicIpAddress
Create a public IP address
Azure DDoS Network Protection
Azure DDoS Network Protection is a paid service that offers enhanced DDoS mitigation capabilities via adaptive tuning, attack notification, and telemetry to protect against the impacts of a DDoS attack for all protected resources within this virtual
Previous
Next
Review + create
Give feedback


Microsoft Azure
Home > Virtual networks >
Create virtual network
Basics
Security
IP addresses
Tags
Review + create
Add IPv4 address space
10.0.0.0/16
Delete address space
10.0.0.0
/16 (65,536 addresses)
10.0.0.0 - 10.0.255.255 (65536 addresses)
Add a subnet
Subnets
IP address range
Size
NAT gateway
default
10.0.0.0 - 10.0.0.255
/24 (256 addresses)
AzureFirewallSubnet
10.0.1.0 - 10.0.1.63
/26 (64 addresses)
A NAT gateway is recommended for outbound internet access from subnets. Edit the subnet to add a NAT gateway. Learn more
Previous
Next
Review + create
Give feedback


Microsoft Azure
Home > Virtual networks >
Create virtual network
Basics
Security
IP addresses
Tags
Review + create
View automation template
Basics
Subscription
Azure for Students
Resource Group
AzureMiniProjectLogicApp
Name
vnet
Region
East US
Security
Azure Bastion
Disabled
Azure Firewall
Enabled
- Name
(New) vnet-Firewall (Standard)
- Public IP Address
(New) vnet-firewall-publicIpAddress
Azure DDoS Network Protection
Disabled
IP addresses
Address space
10.0.0.0/16 (65536 addresses)
Subnet
default (10.0.0.0/24) (256 addresses)
Previous
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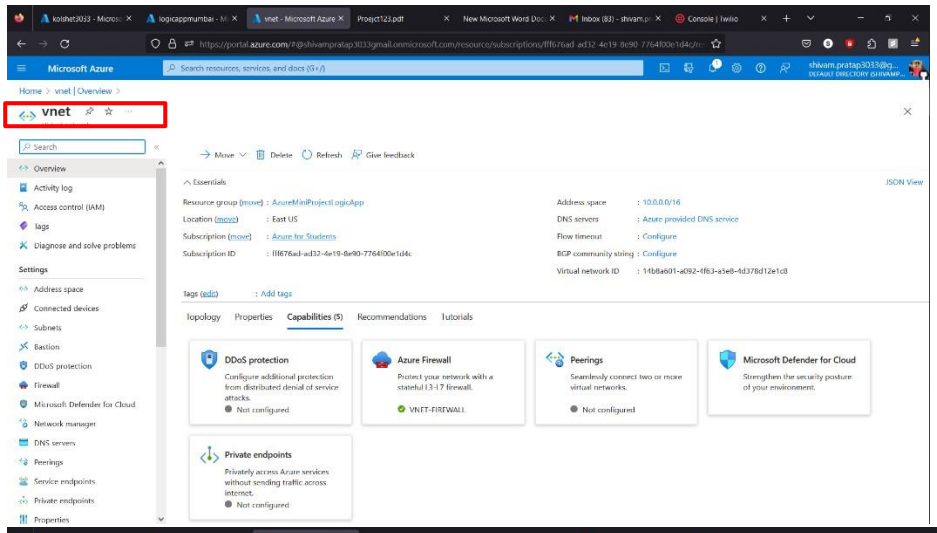
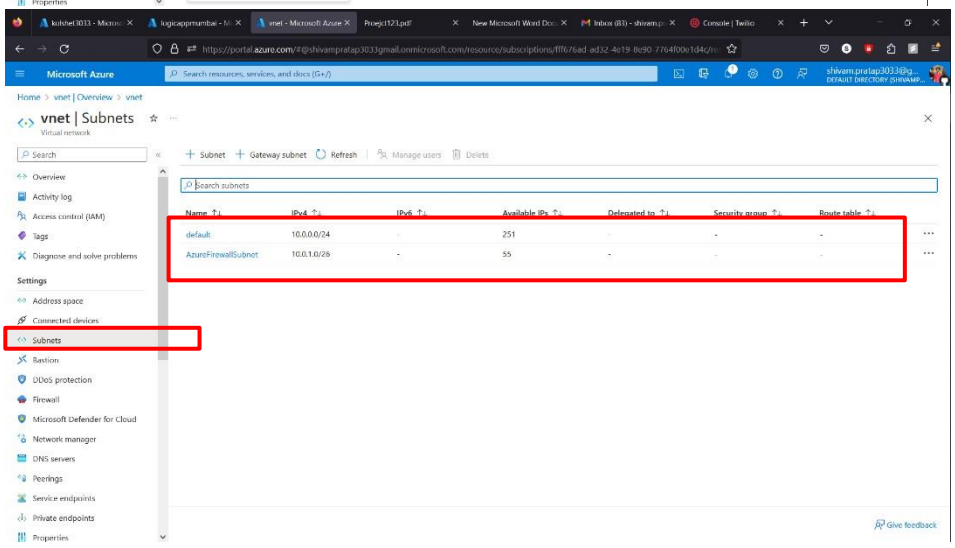
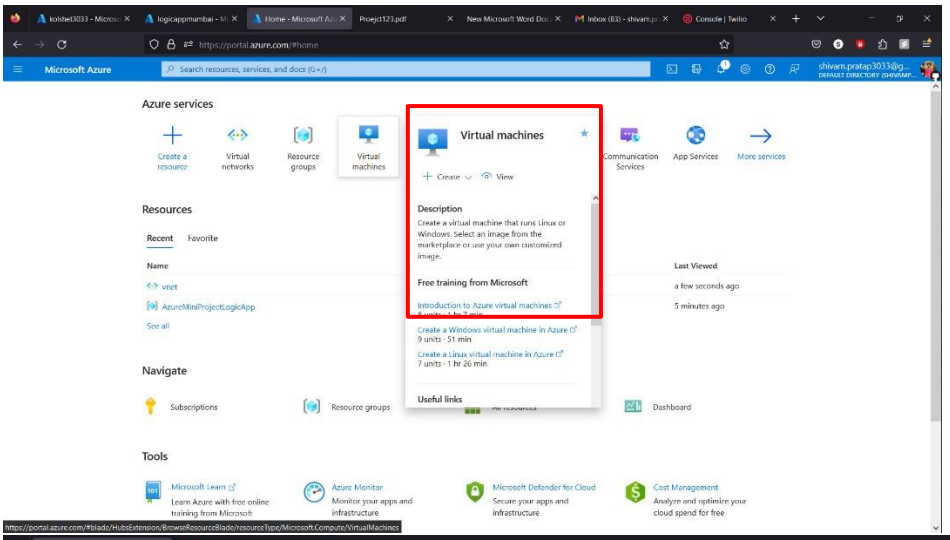
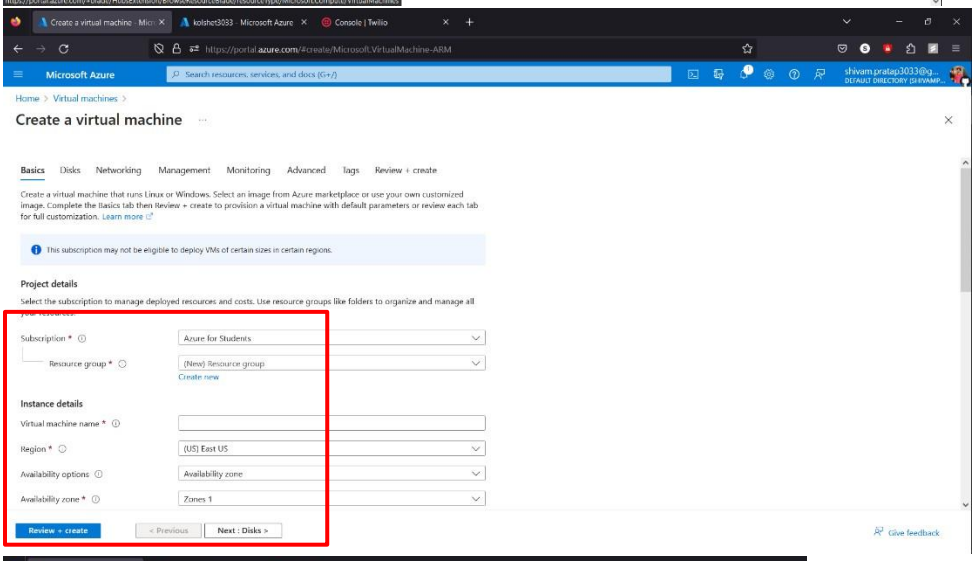
Give feedback

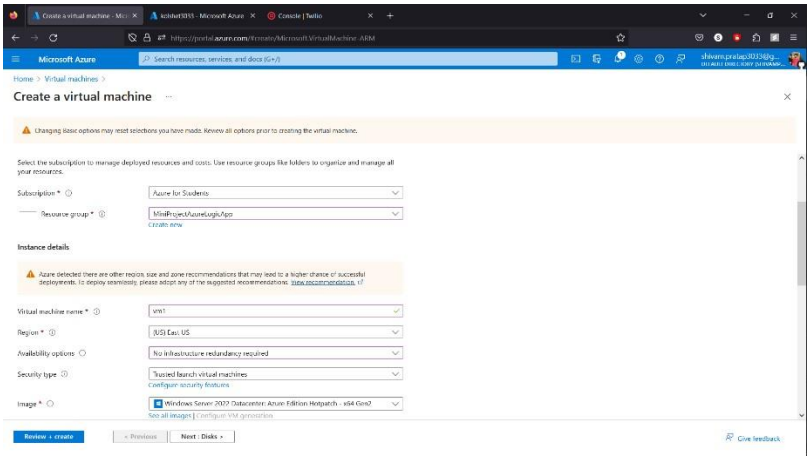




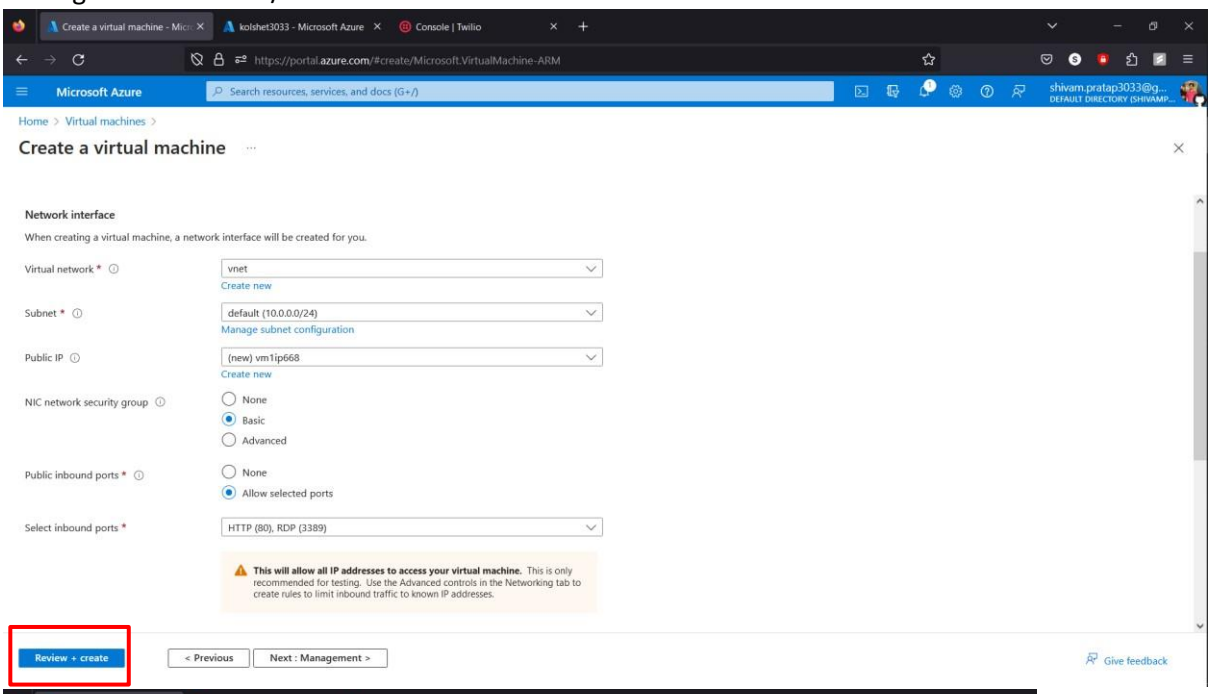
Now create a virtual machine

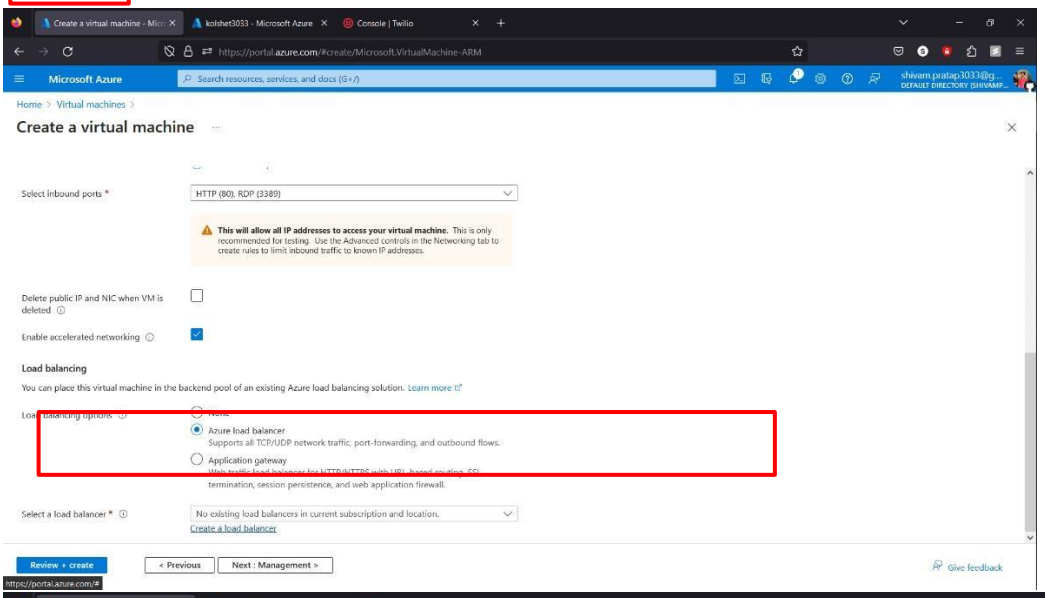

Microsoft Azure
Azure services
Create a resource
Virtual networks
Resource groups
Virtual machines
Communication Services
App Services
More services
Virtual machines
Create
View
Description
Create a virtual machine that runs Linux or Windows. Select an image from the marketplace or use your own customized image.
Free training from Microsoft
Introduction to Azure virtual machines
Create a Windows virtual machine in Azure
9 units · 51 min
Create a Linux virtual machine in Azure
7 units · 1 hr 26 min
Useful links
Resources
Recent
Favorite
Name
Last Viewed
vnet
a few seconds ago
AzureMiniProjectLogicApp
5 minutes ago
See all
Navigate
Subscriptions
Resource groups
Dashboard
Tools
Microsoft Learn
Learn Azure with free online training from Microsoft
Azure Monitor
Monitor your apps and infrastructure
Microsoft Defender for Cloud
Secure your apps and infrastructure
Cost Management
Analyze and optimize your cloud spend for free

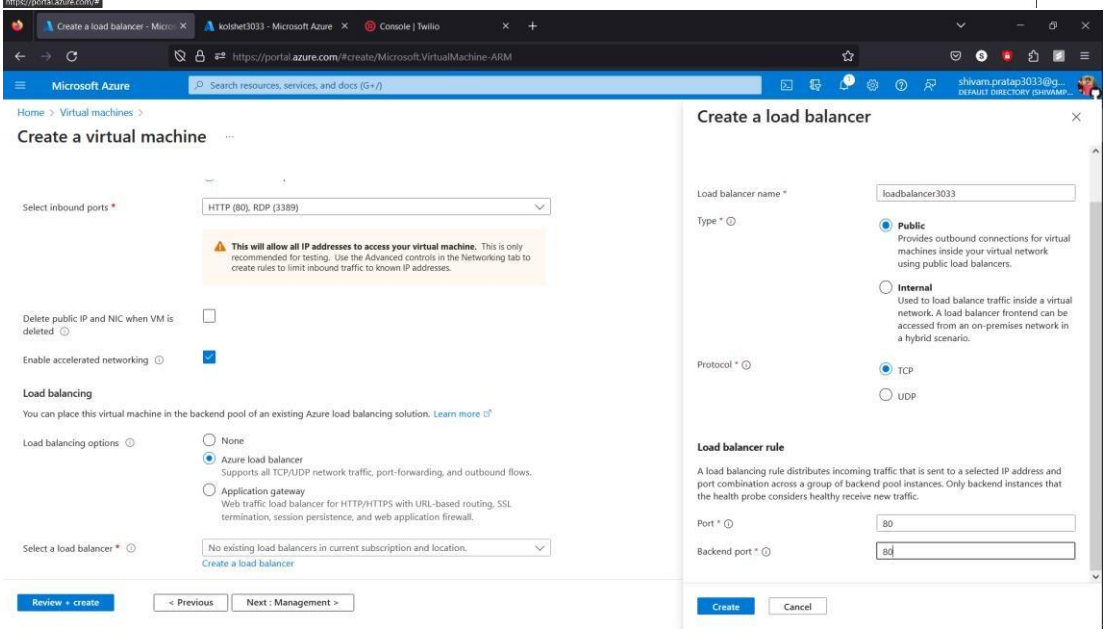

Microsoft Azure
Home > Virtual machines >
Create a virtual machine
Basics
Disks
Networking
Management
Monitoring
Advanced
Tags
Review + create
Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. Learn more
This subscription may not be eligible to deploy VMs of certain sizes in certain regions.
Project details
Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all
Subscription *
Azure for Students
Resource group *
(New) Resource group
Create new
Instance details
Virtual machine name *
Region *
(US) East US
Availability options
Availability zone
Availability zone *
Zones 1
Review + create
< Previous
Next : Disks >
Give feedback


Microsoft Azure
Home > Virtual machines >
Create a virtual machine
Changing basic options may reset selections you have made. Review all options prior to creating the virtual machine.
Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.
Subscription *
Azure for Students
Resource group *
MiniProjectAzureLogicApp
Create new
Instance details
Azure detected there are other region, size and zone recommendations that may lead to a higher chance of successful deployments. To deploy seamlessly, please adopt any of the suggested recommendations. View recommendation
Virtual machine name *
vm1
Region *
(US) East US
Availability options
No infrastructure redundancy required
Security type
Trusted launch virtual machines
Configure security features
Image *
Windows Server 2022 Datacenter: Azure Edition Hotpatch - x64 Gen2
See all images | Configure VM generation
Review + create
< Previous
Next : Disks >
Give feedback

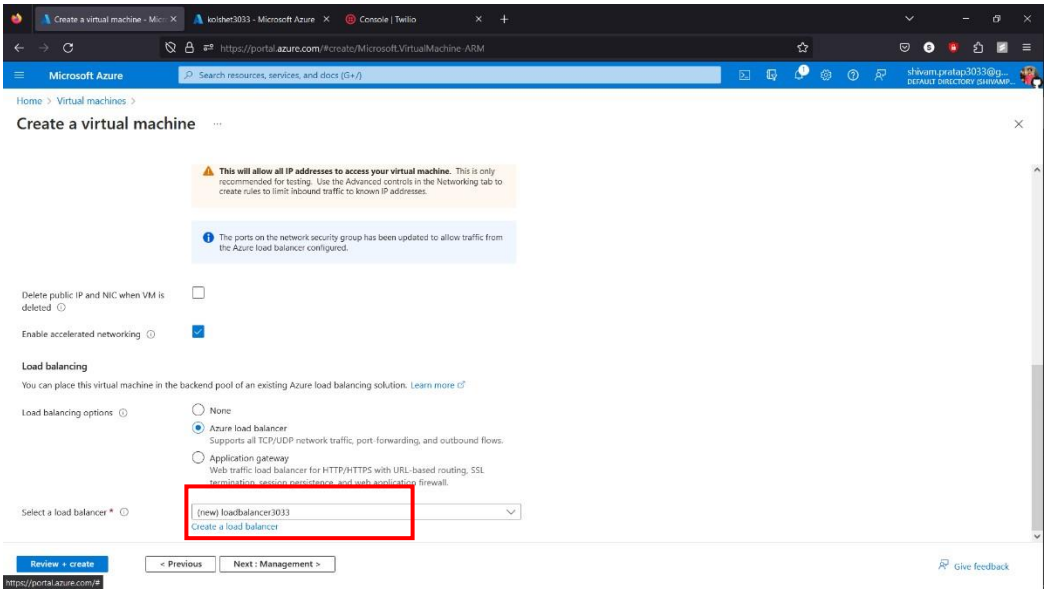
Adding the VM in Vnet/subnet



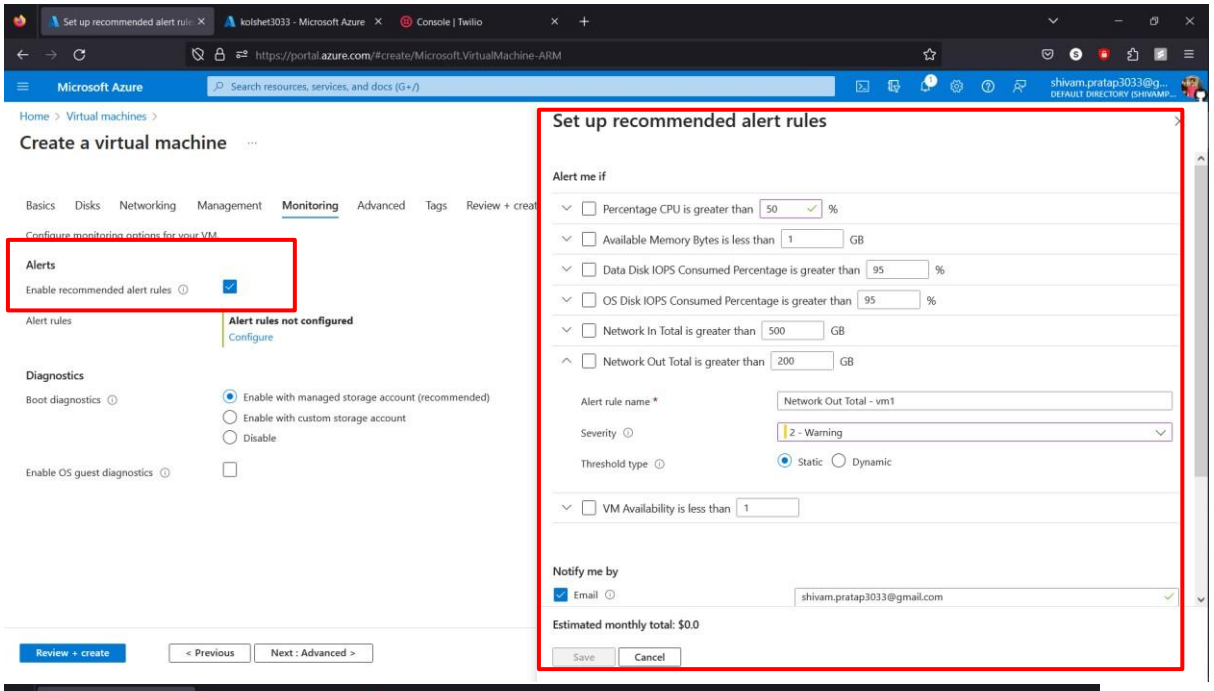


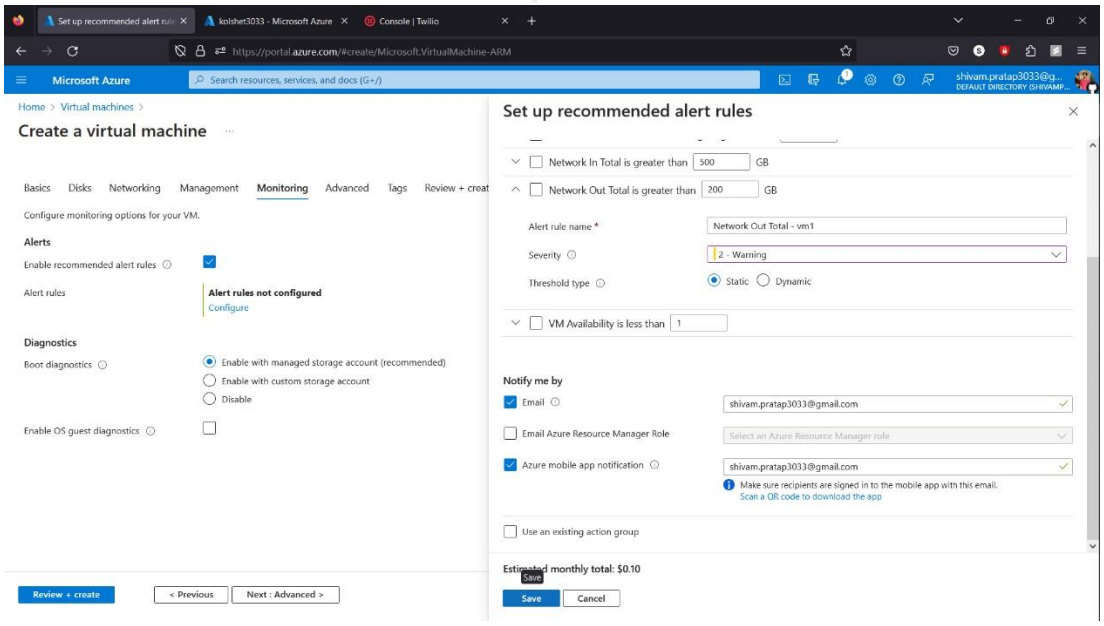


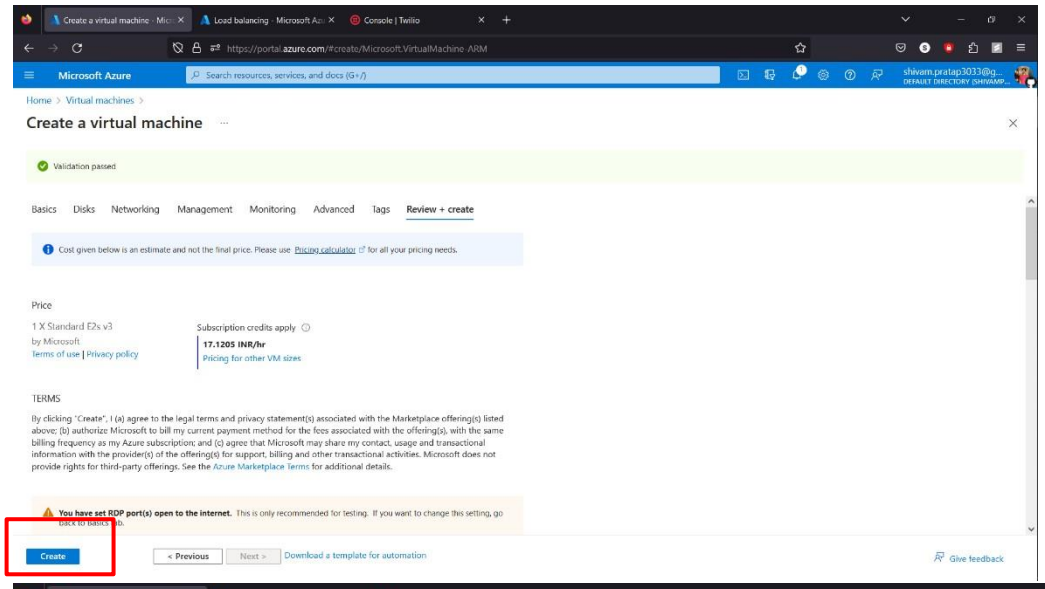
Load balancer is added to VM with New Public IP

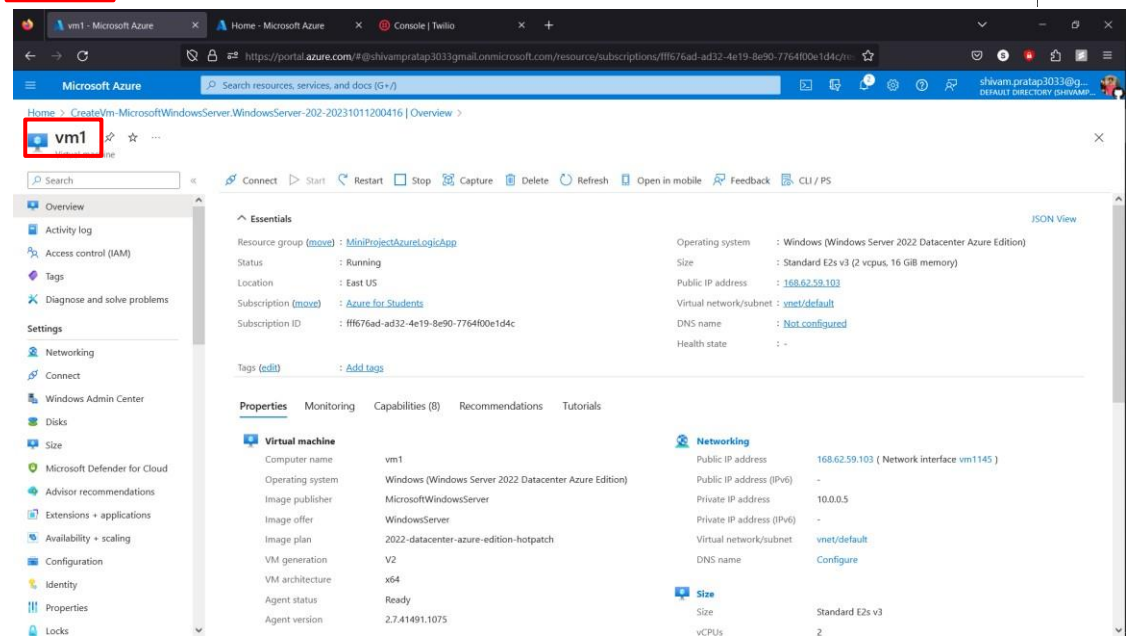


Monitor Alert Rules are added by me while creating the machine

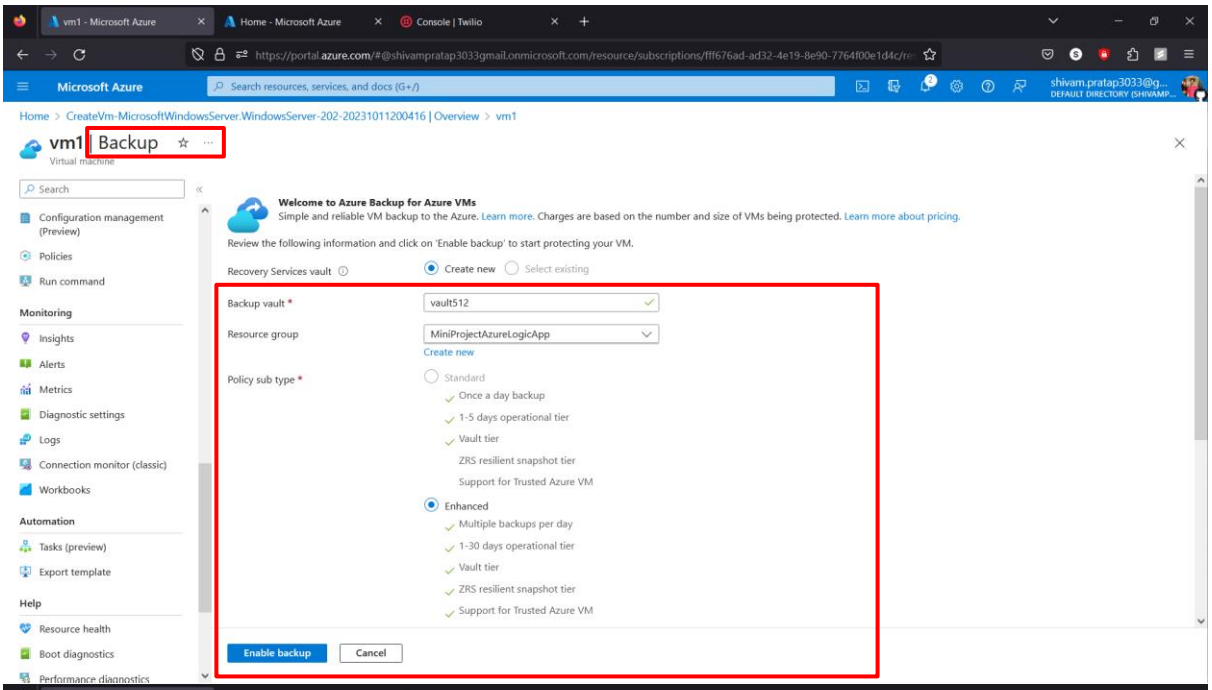


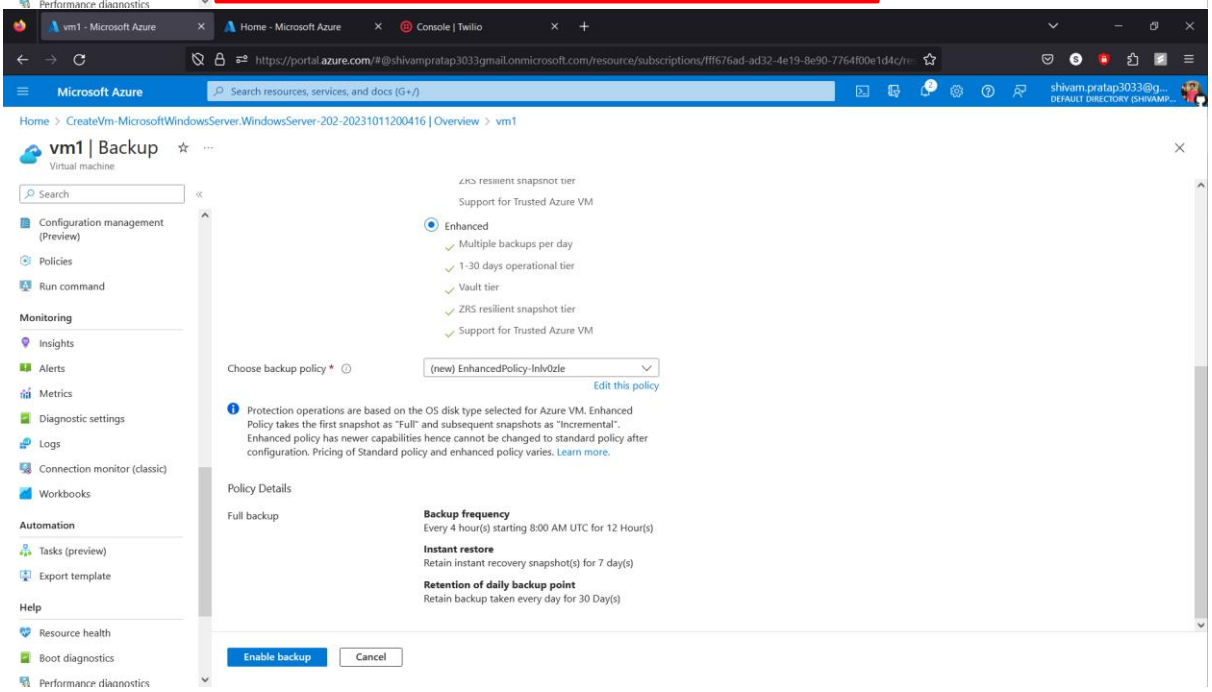




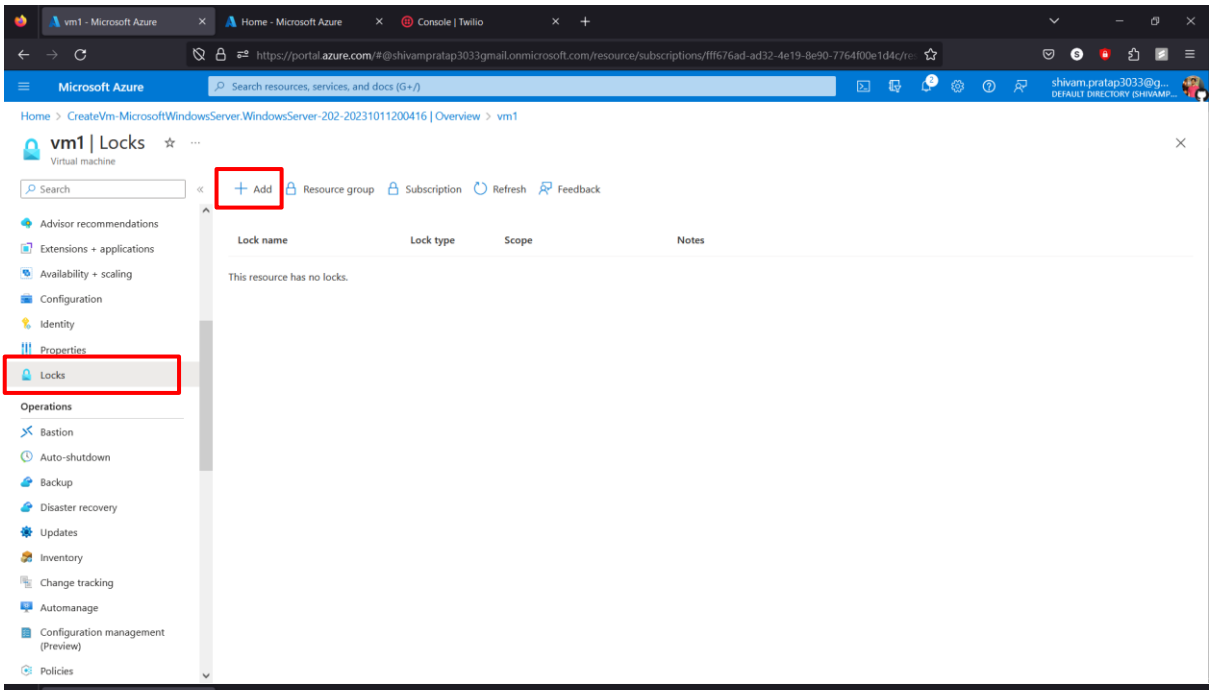


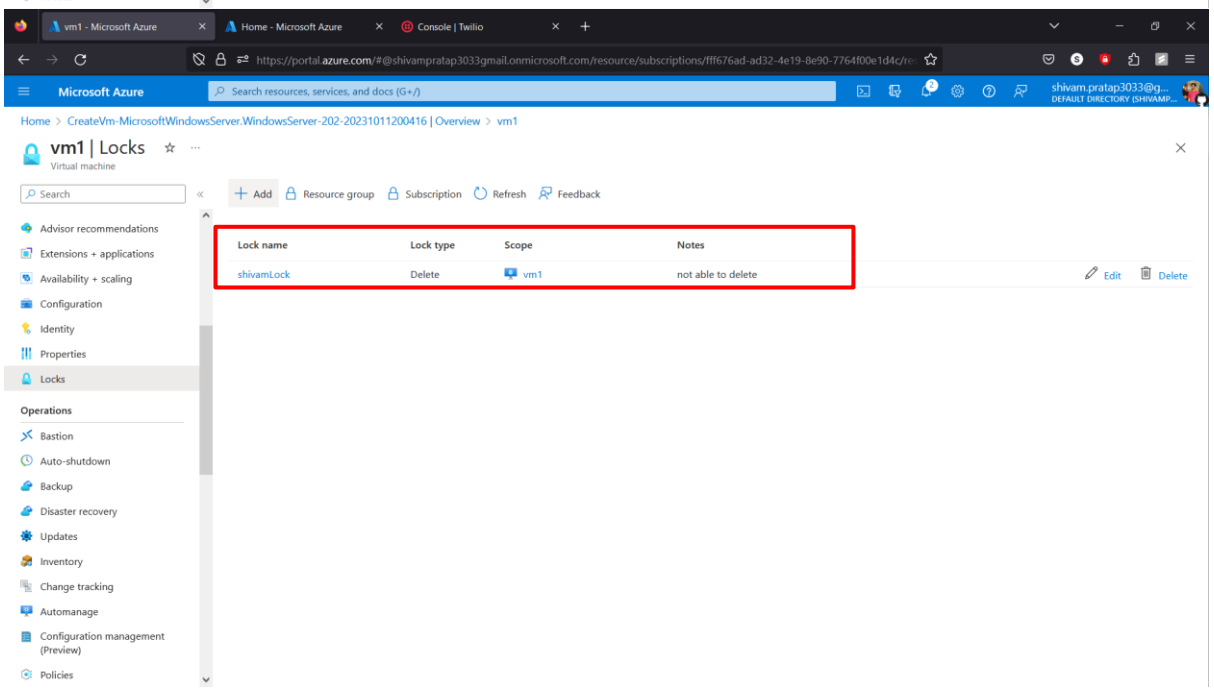
Creating Backup for Virtual Machine



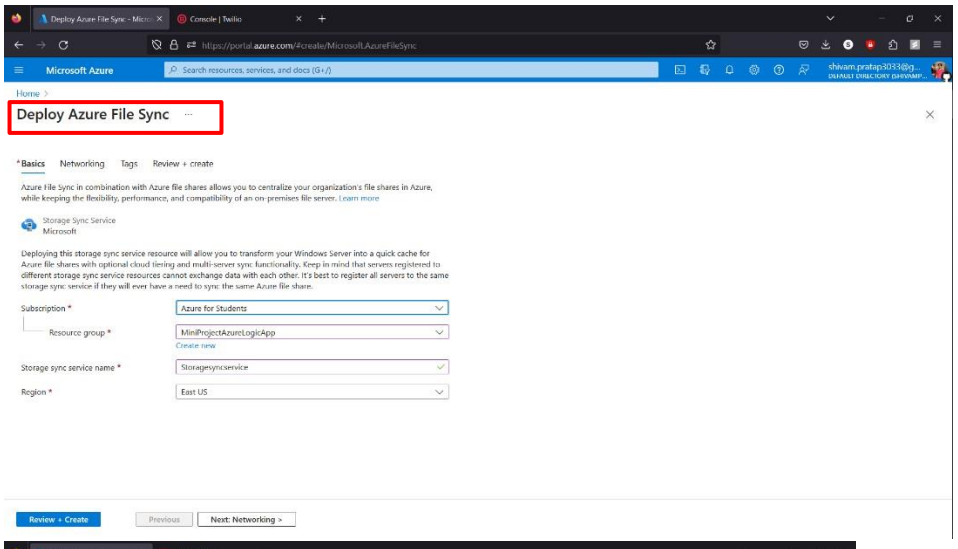


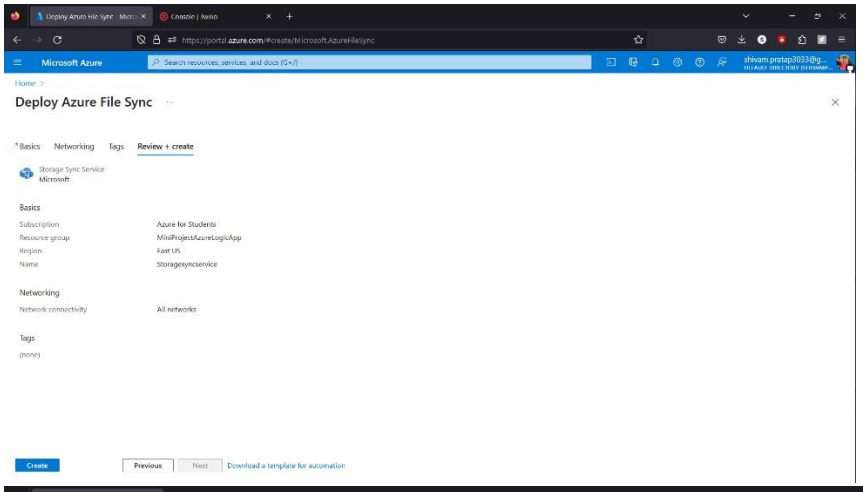
Creating a Lock For VM so that no one should by mistakenly delete it

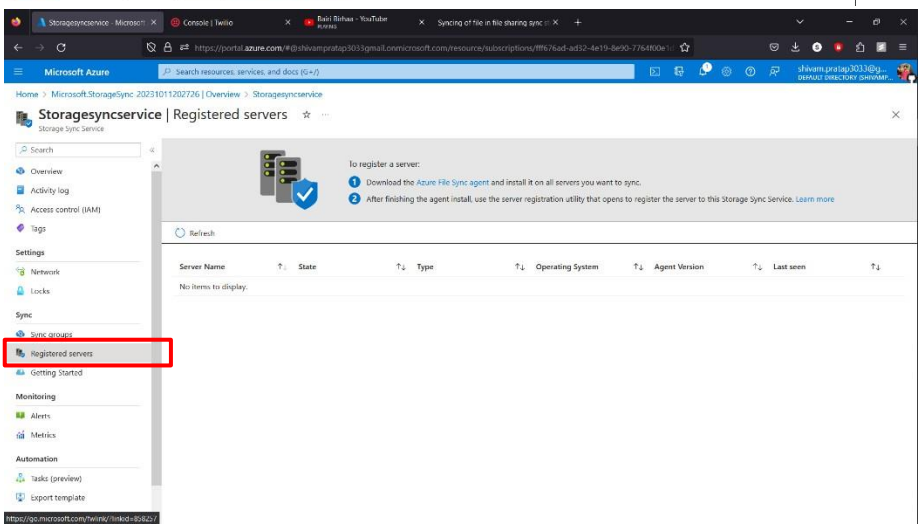




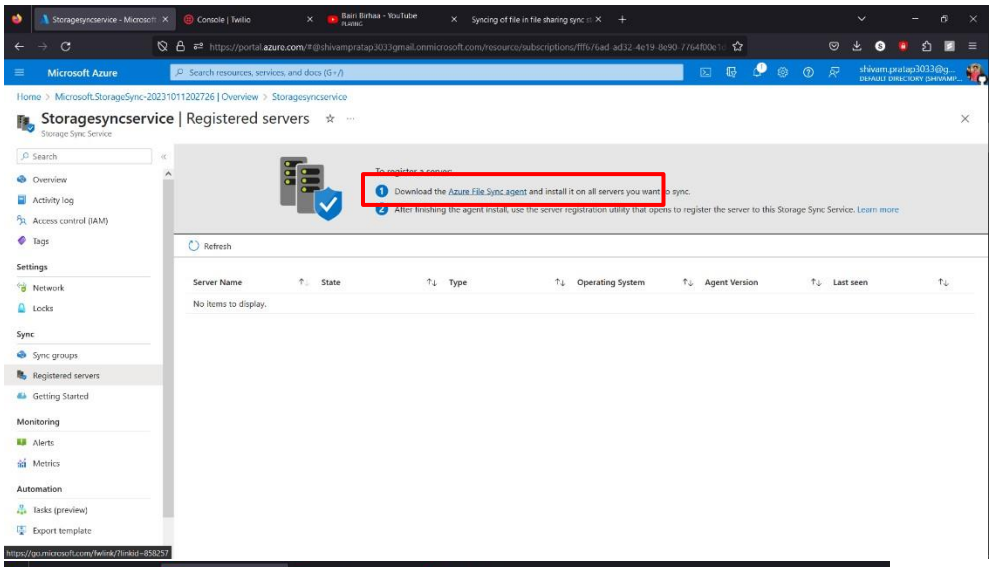
Now creating azure File sync to connect the file share with On-premise with unidirectional work flow

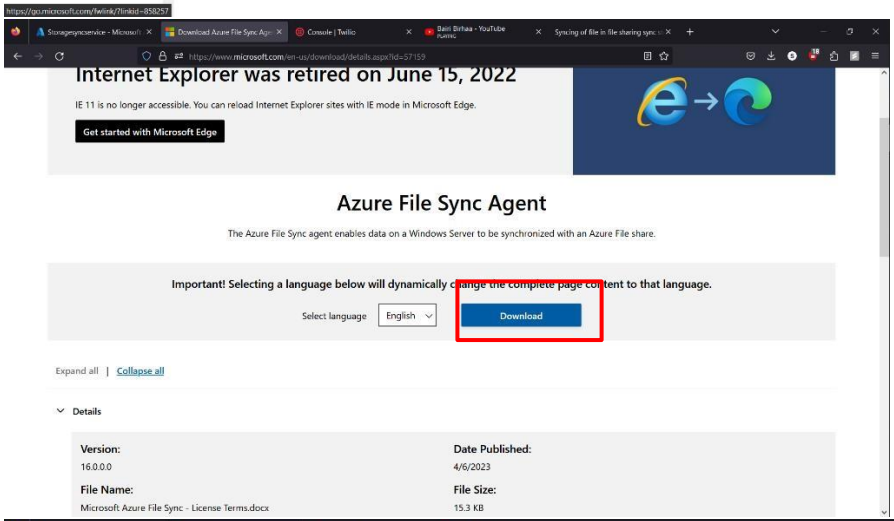


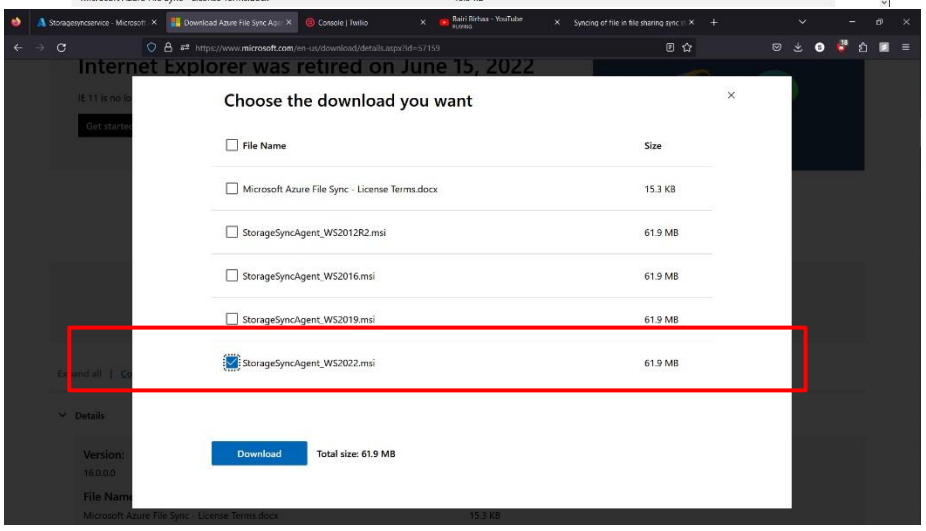


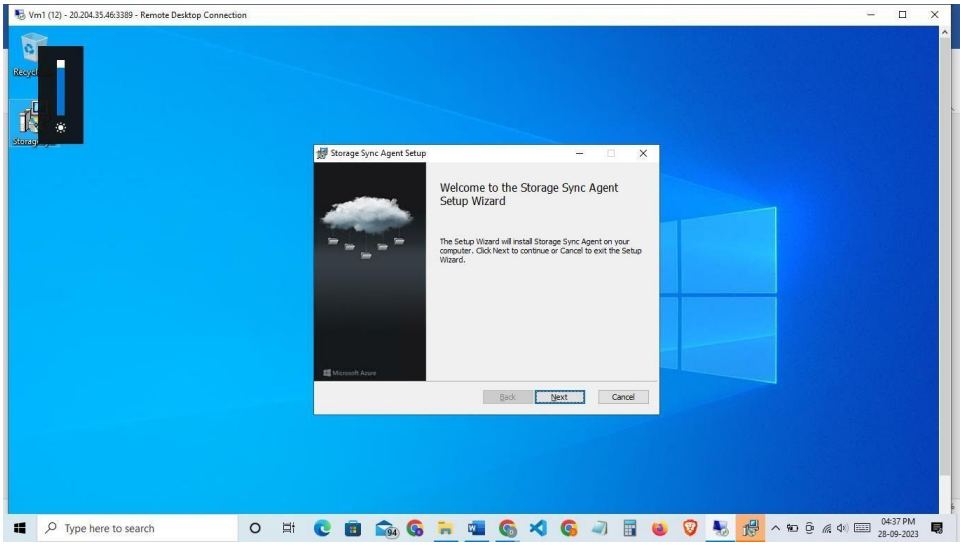


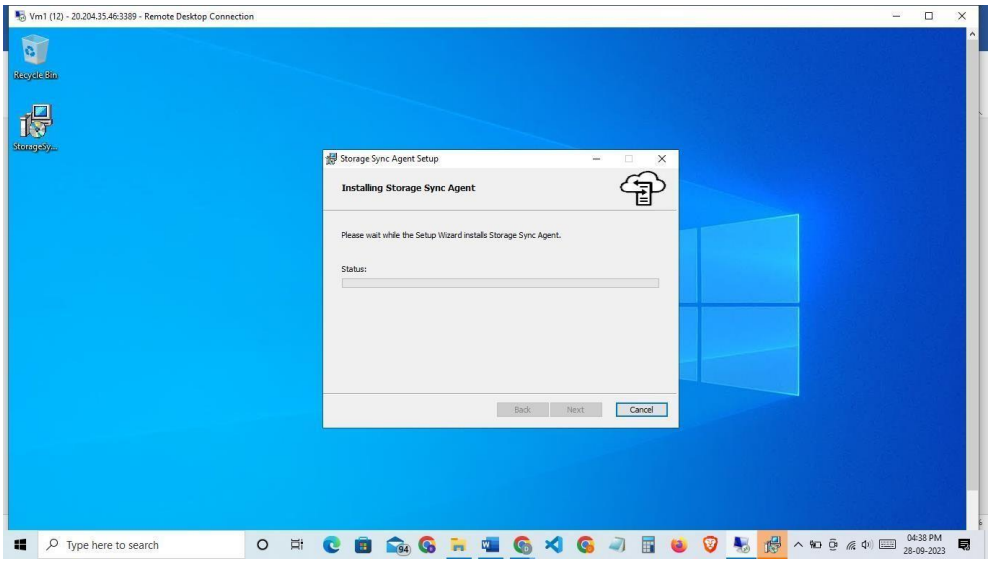
We will download the agent in over PC for sync the file share and then copy the file to VM1 and there will be have to install it.


Microsoft Azure
Home > Microsoft.StorageSync-20231011202726 | Overview > Storagesyncservice
Storagesyncservice | Registered servers
Storage Sync Service
Overview
Activity log
Access control (IAM)
Tags
Settings
Network
Locks
Sync
Sync groups
Registered servers
Getting Started
Monitoring
Alerts
Metrics
Automation
Tasks (preview)
Export template
Download the Azure File Sync agent and install it on all servers you want to sync.
After finishing the agent install, use the server registration utility that opens to register the server to this Storage Sync Service. Learn more
Refresh
Server Name
State
Type
Operating System
Agent Version
Last seen
No items to display.

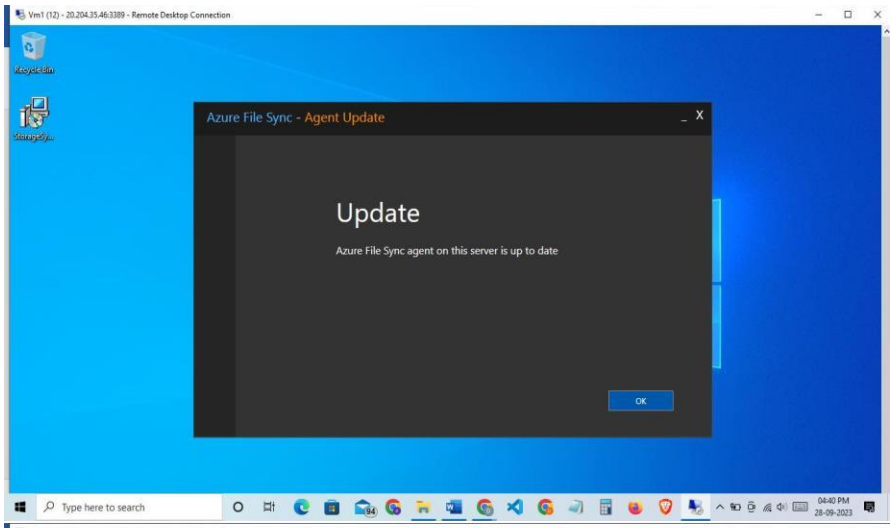

Internet Explorer was retired on June 15, 2022
IE 11 is no longer accessible. You can reload Internet Explorer sites with IE mode in Microsoft Edge.
Get started with Microsoft Edge
Azure File Sync Agent
The Azure File Sync agent enables data on a Windows Server to be synchronized with an Azure File share.
Important! Selecting a language below will dynamically change the complete page content to that language.
Select language
English
Download
Expand all | Collapse all
Details
Version:
16.0.0.0
Date Published:
4/6/2023
File Name:
Microsoft Azure File Sync - License Terms.docx
File Size:
15.3 KB

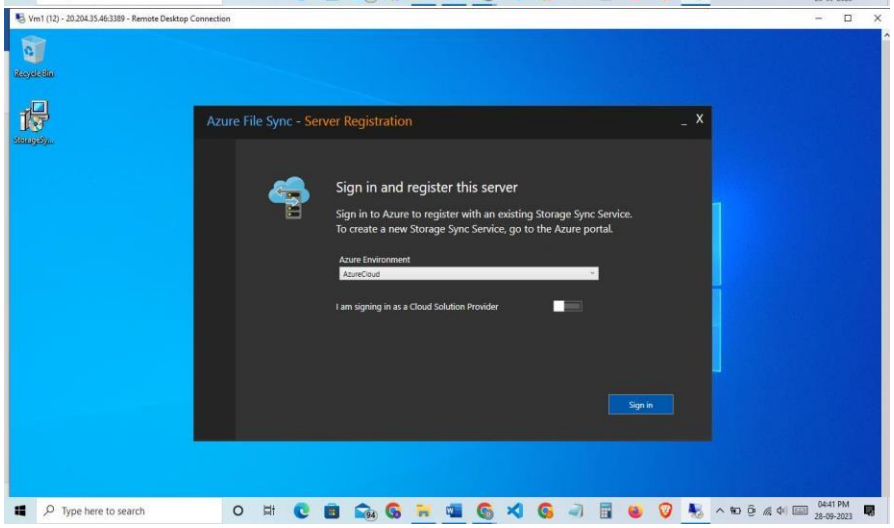

Choose the download you want
File Name
Size
Microsoft Azure File Sync - License Terms.docx
15.3 KB
StorageSyncAgent_WS2012R2.msi
61.9 MB
StorageSyncAgent_WS2016.msi
61.9 MB
StorageSyncAgent_WS2019.msi
61.9 MB
StorageSyncAgent_WS2022.msi
61.9 MB
Download
Total size: 61.9 MB

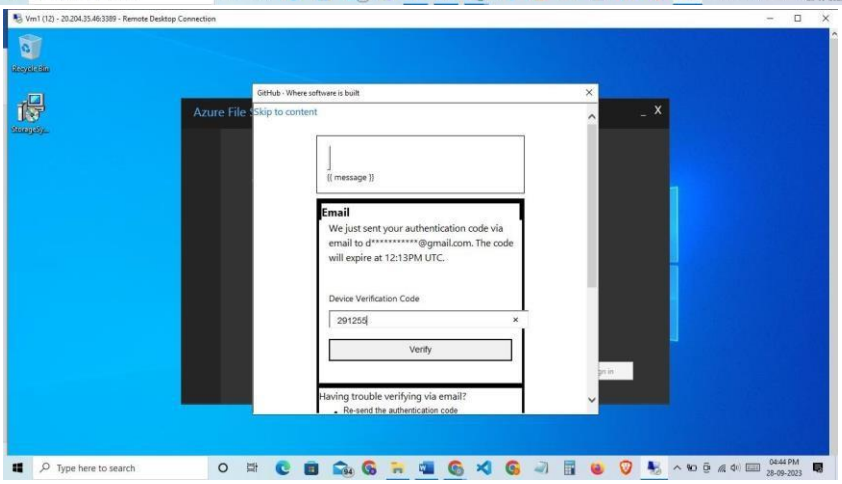


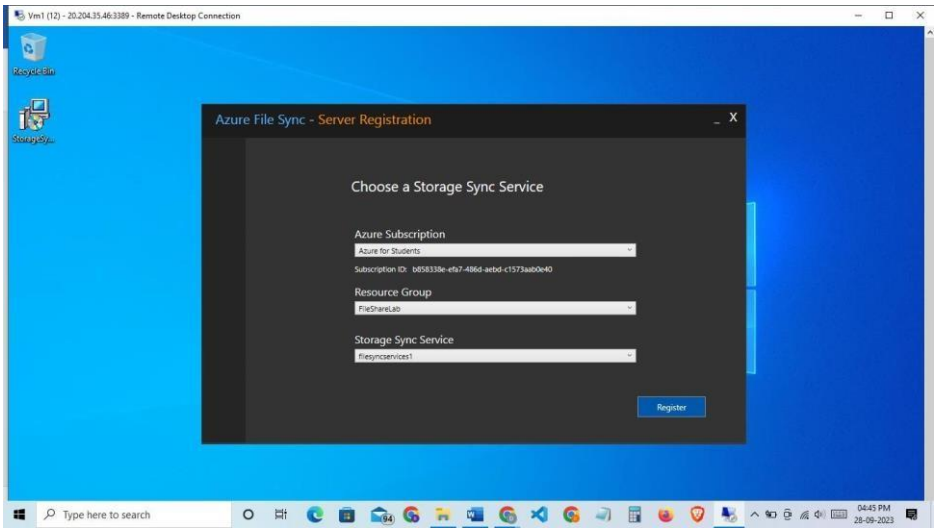


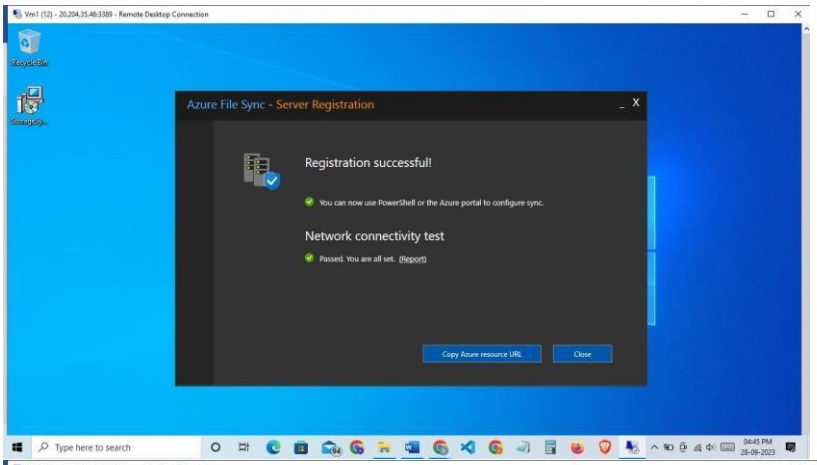
Install with default setting

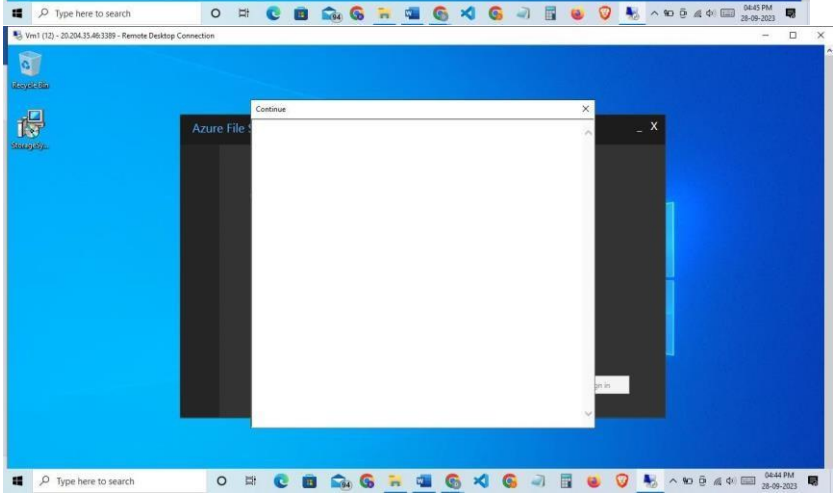

Vm1 (12) - 20.204.35.46:3389 - Remote Desktop Connection
Azure File Sync - Agent Update
Update
Azure File Sync agent on this server is up to date
OK
Type here to search
04:40 PM
28-09-2023


Vm1 (12) - 20.204.35.46:3389 - Remote Desktop Connection
Azure File Sync - Server Registration
Sign in and register this server
Sign in to Azure to register with an existing Storage Sync Service.
To create a new Storage Sync Service, go to the Azure portal.
Azure Environment
AzureCloud
I am signing in as a Cloud Solution Provider
Sign in
Type here to search
04:41 PM
28-09-2023


Vm1 (12) - 20.204.35.46:3389 - Remote Desktop Connection
GitHub - Where software is built
Skip to content
{{ message }}
Email
We just sent your authentication code via email to d**********@gmail.com. The code will expire at 12:13PM UTC.
Device Verification Code
291255
Verify
Having trouble verifying via email?
Re-send the authentication code
Type here to search
04:44 PM
28-09-2023

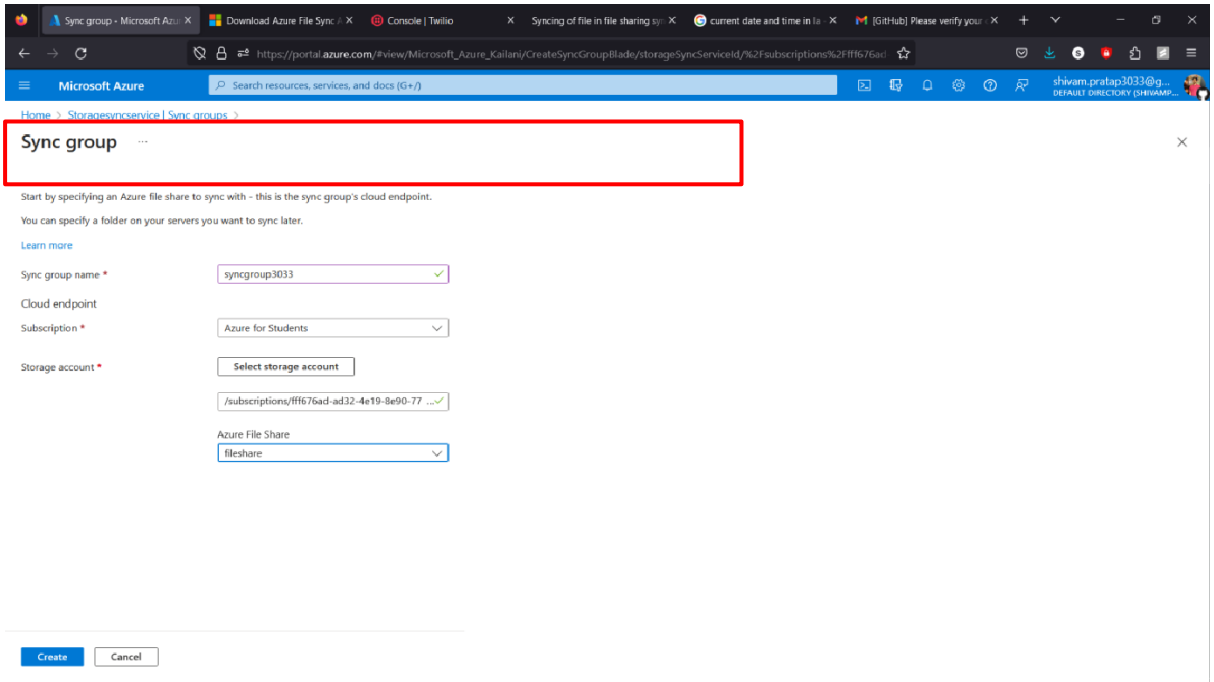

Vm1 (12) - 20.204.35.46:3389 - Remote Desktop Connection
Azure File Sync - Server Registration
Choose a Storage Sync Service
Azure Subscription
Azure for Students
Subscription ID: b858338e-efa7-486d-aebd-c1573aab0e40
Resource Group
FileShareLab
Storage Sync Service
filesyncservices1
Register
Type here to search
04:45 PM
28-09-2023

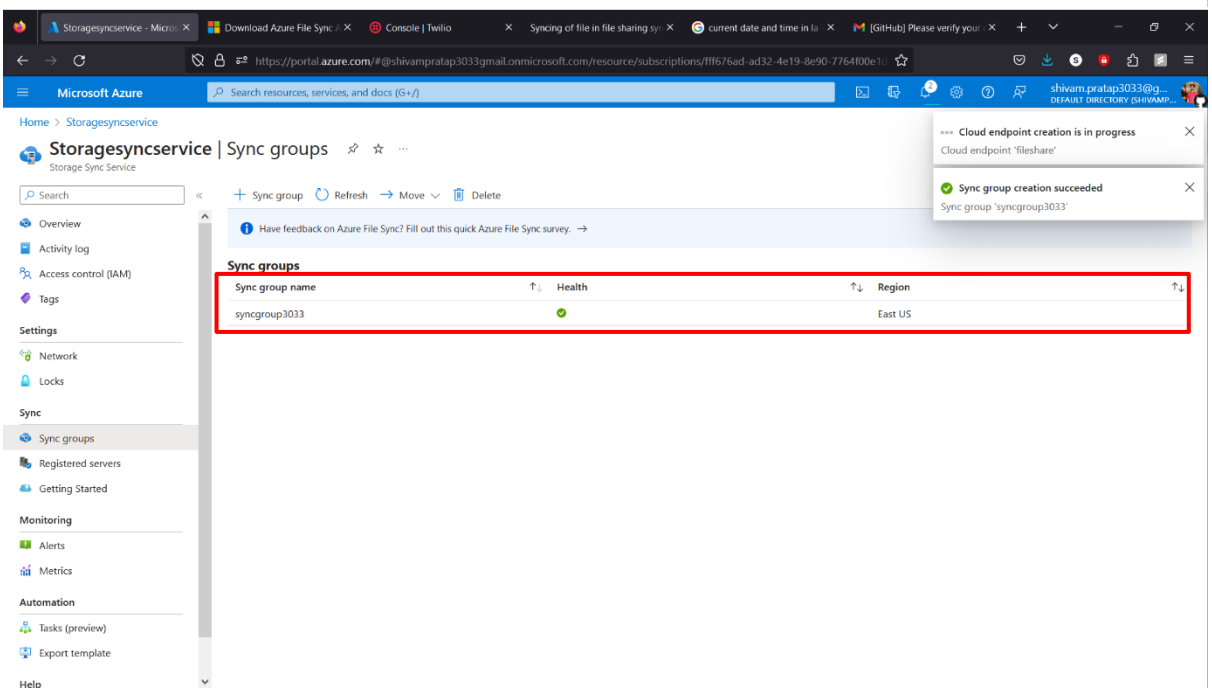

Vm1 (12) - 20.204.35.46:3389 - Remote Desktop Connection
Azure File Sync - Server Registration
Registration successful!
You can now use PowerShell or the Azure portal to configure sync.
Network connectivity test
Passed. You are all set. (Report)
Copy Azure resource URL
Close
Type here to search
04:45 PM
28-09-2023


Vm1 (12) - 20.204.35.46:3389 - Remote Desktop Connection
Continue
Type here to search
04:44 PM
28-09-2023

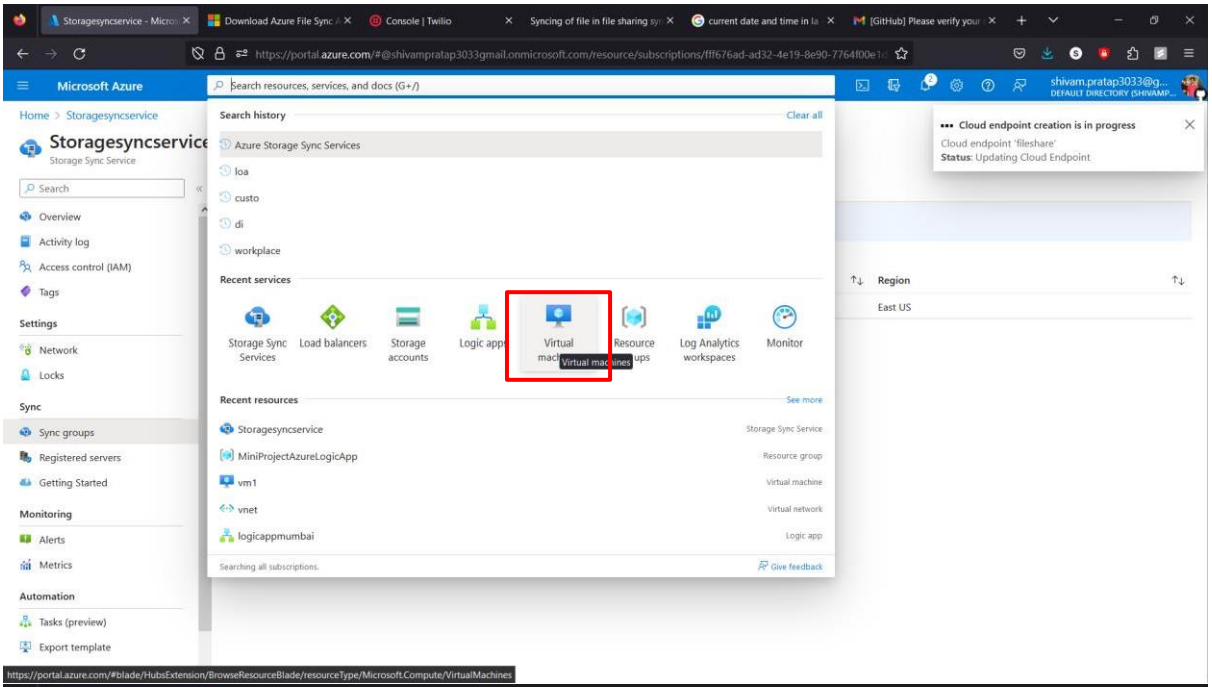
Shivam Pratap

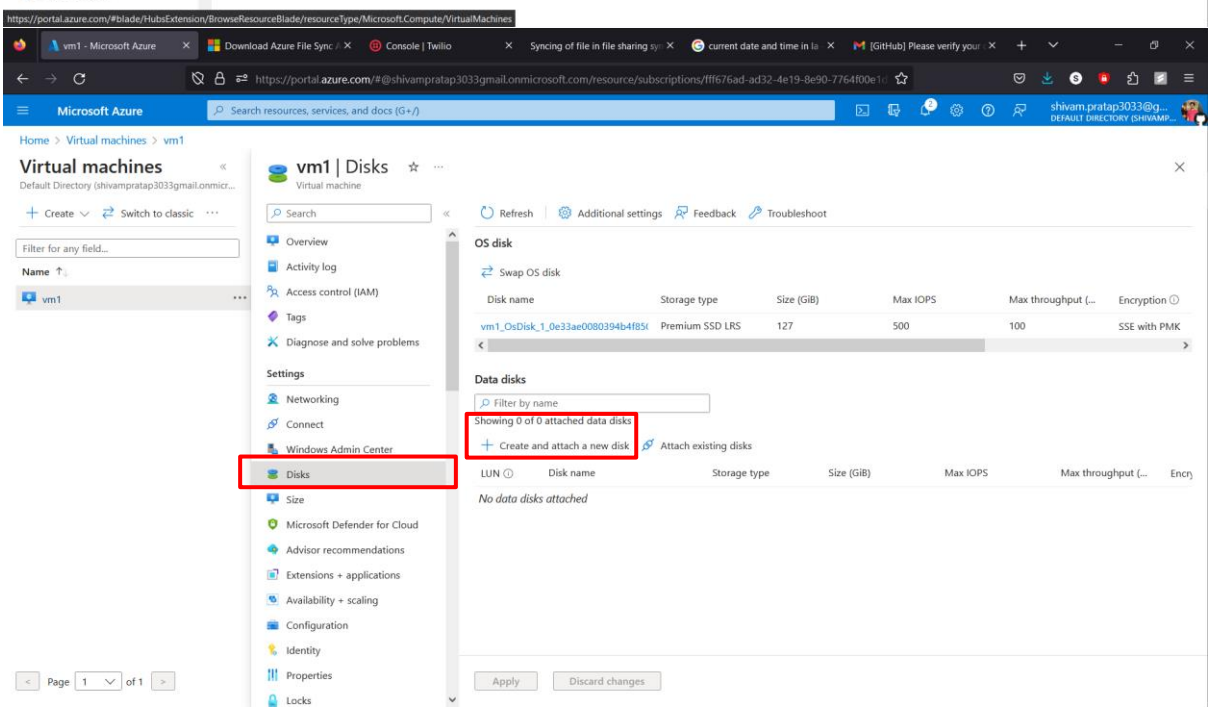
Now creating Sync Group



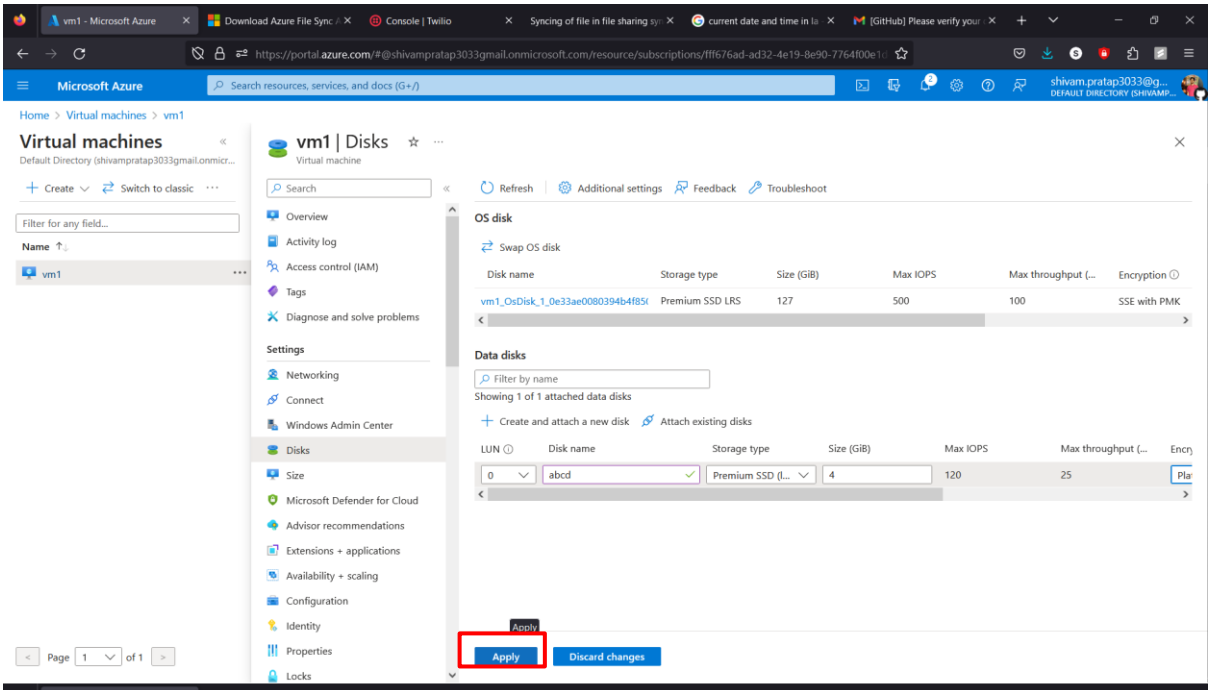


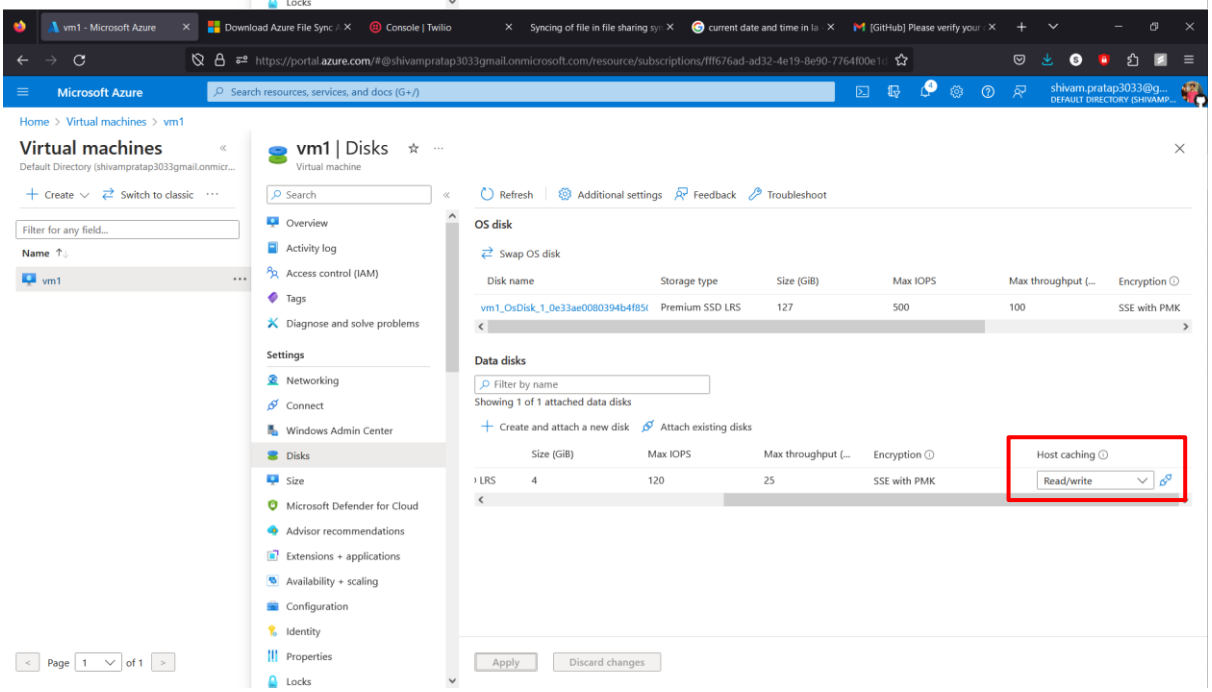
Now we will open VM1 in azure and add I disk to the VM1 of nearly 4GB



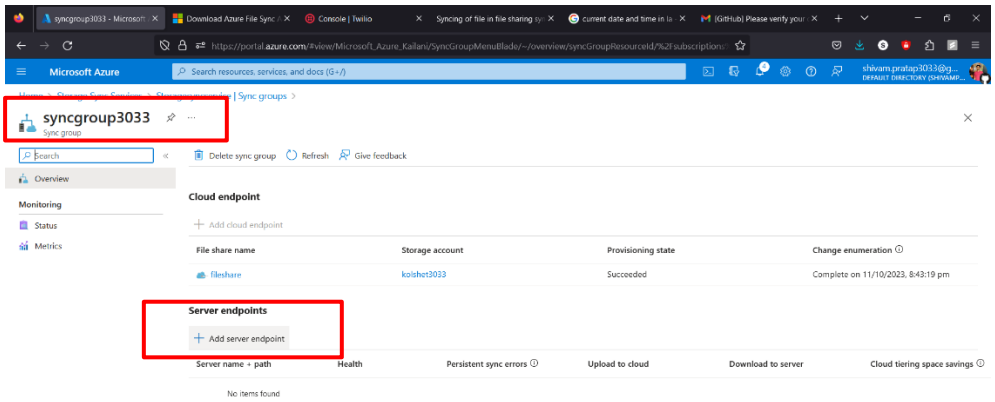


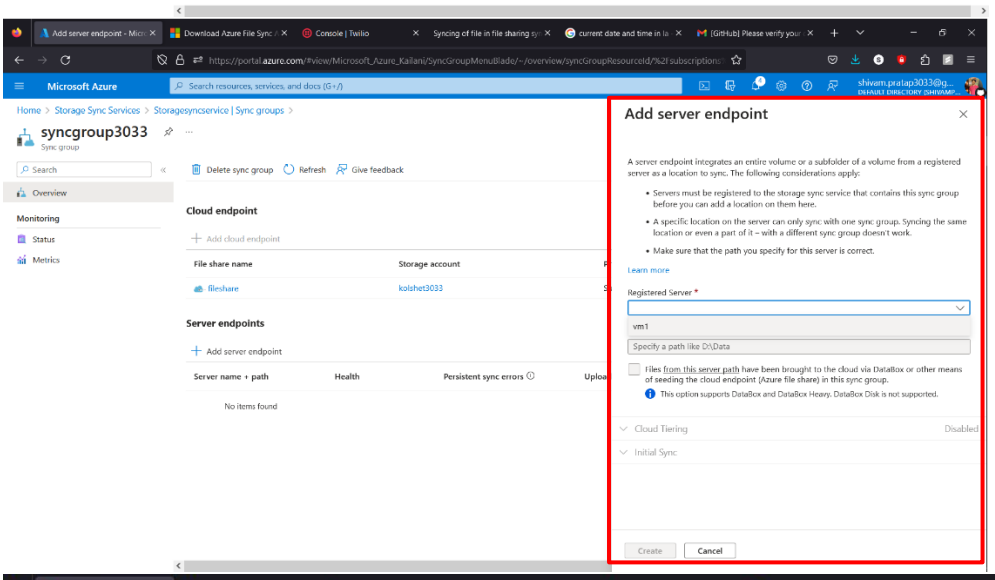
Shivam Pratap

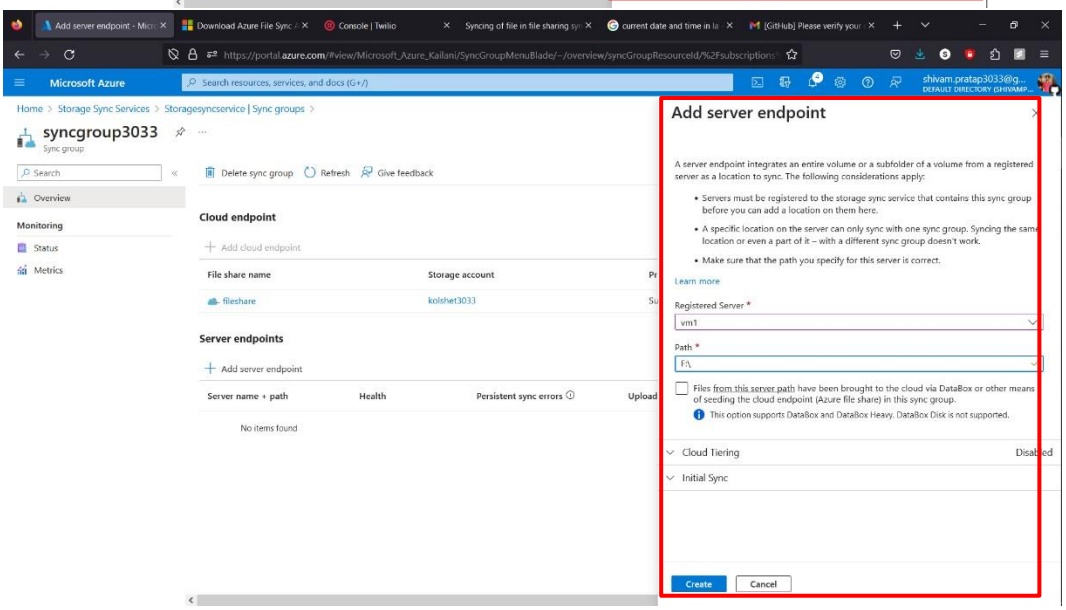




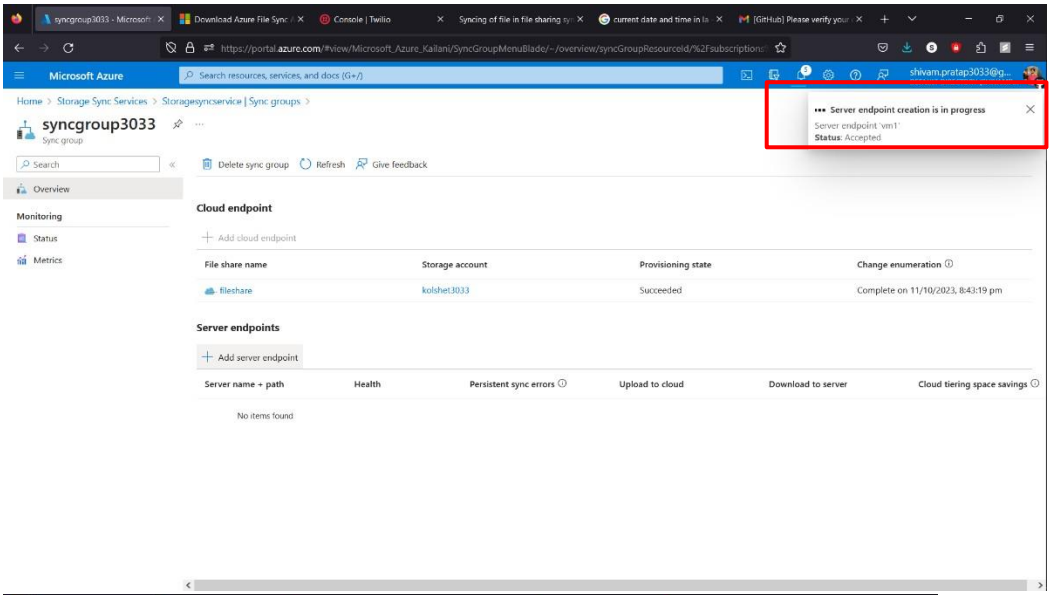
Shivam Pratap

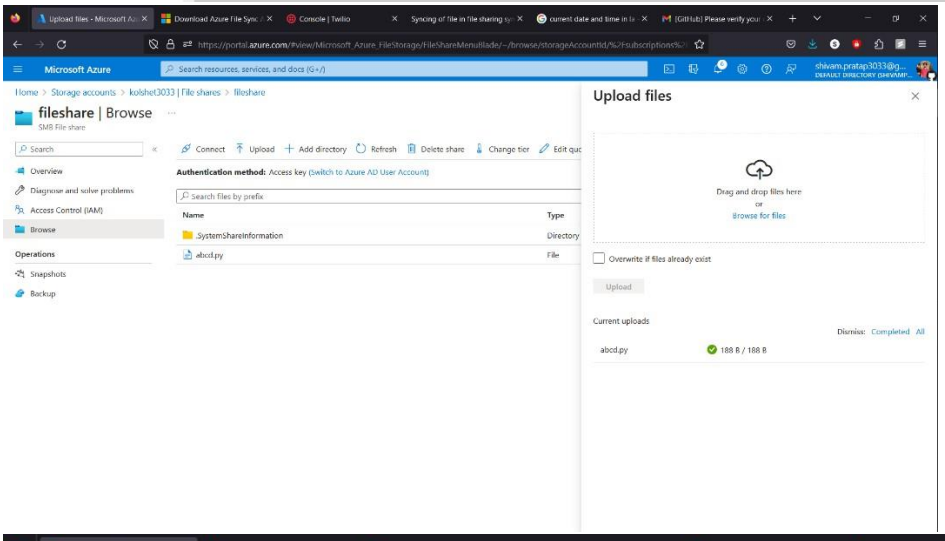


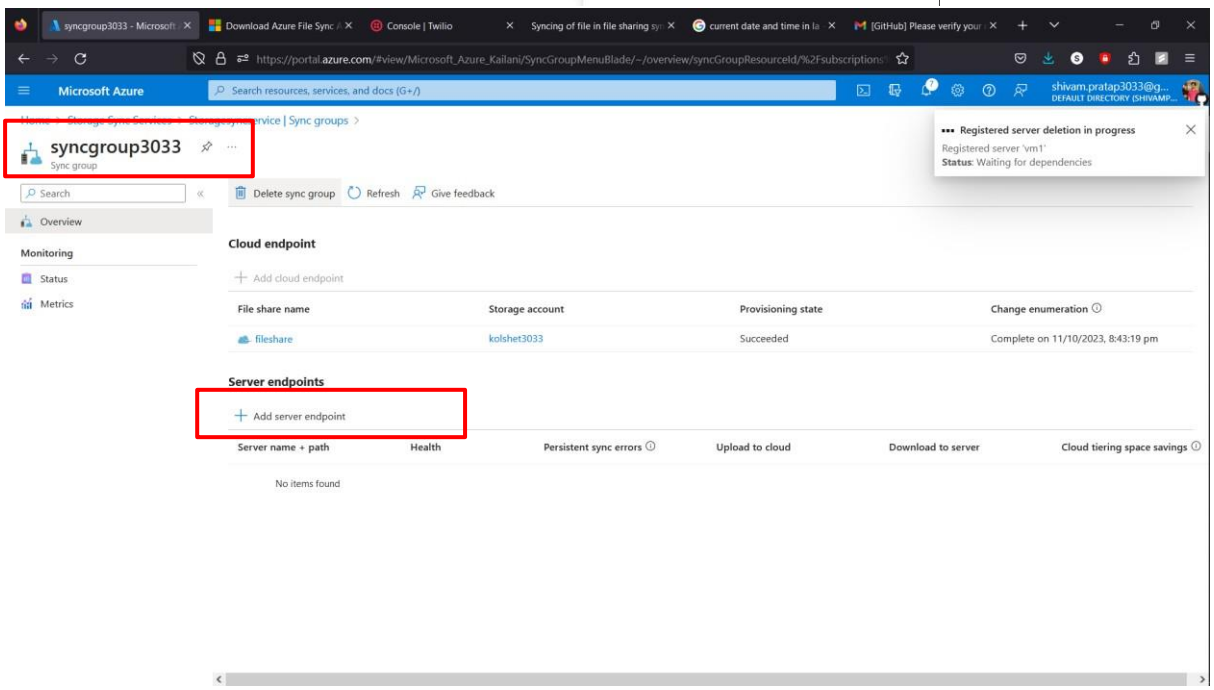




Shivam Pratap

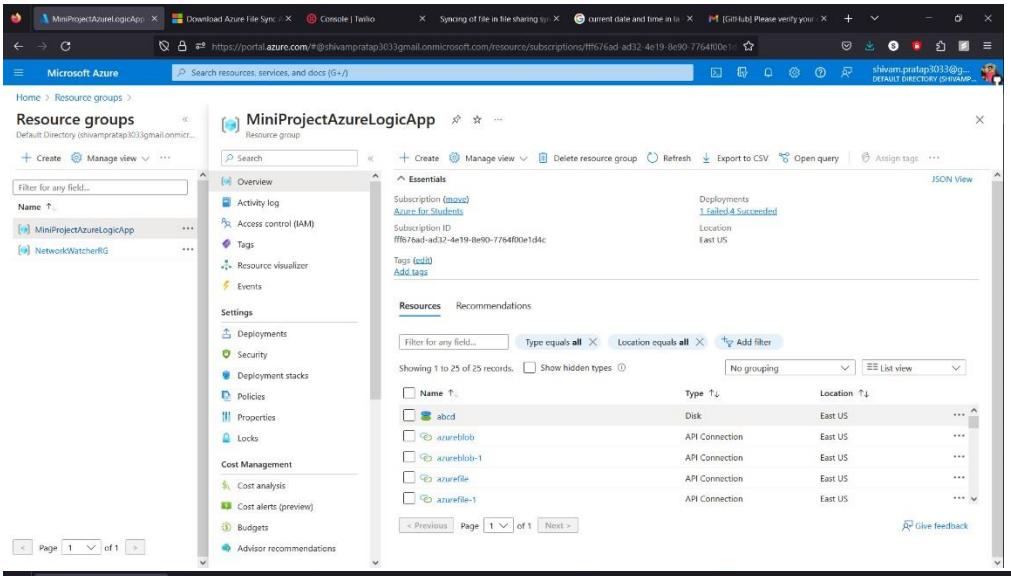


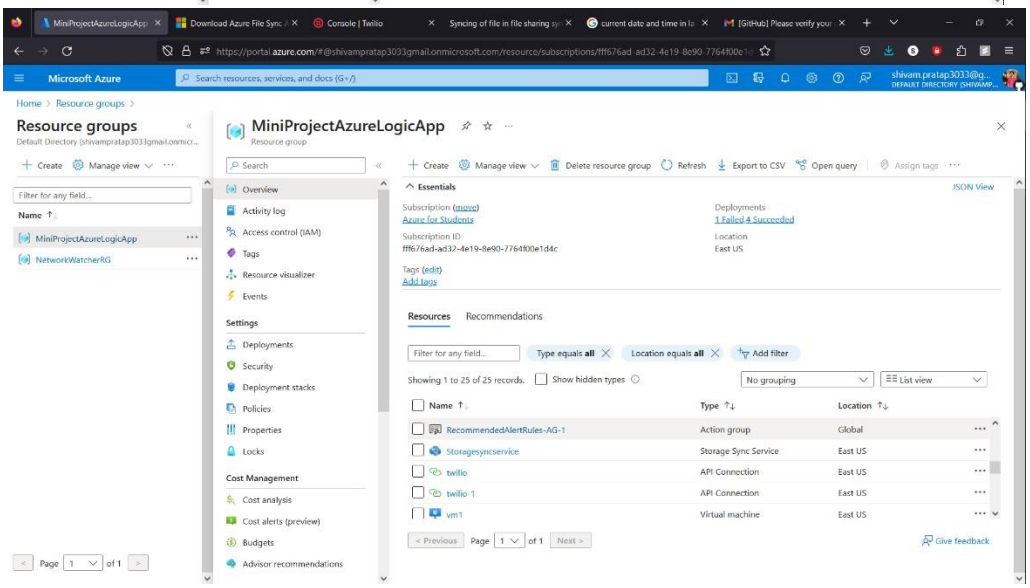




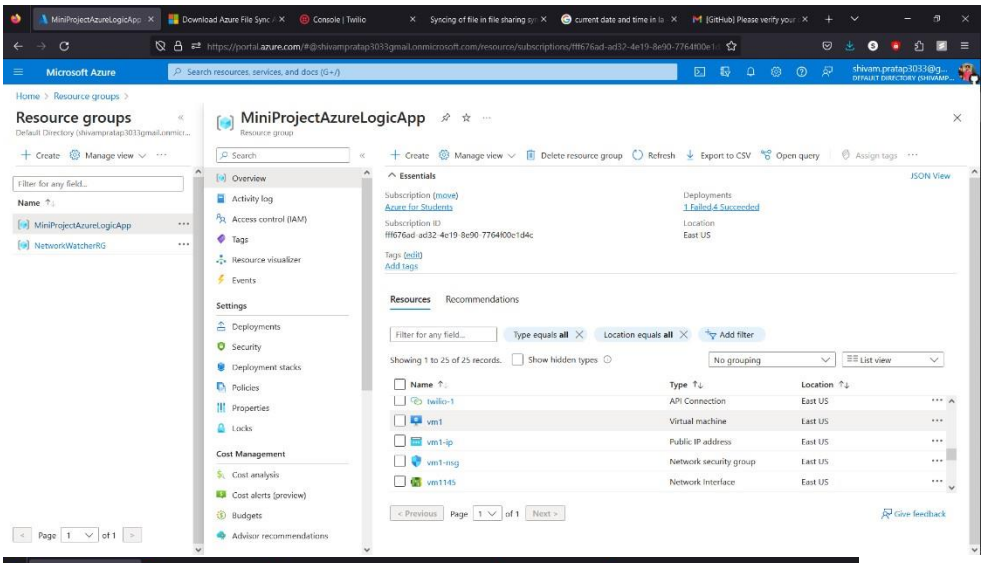
Shivam Pratap

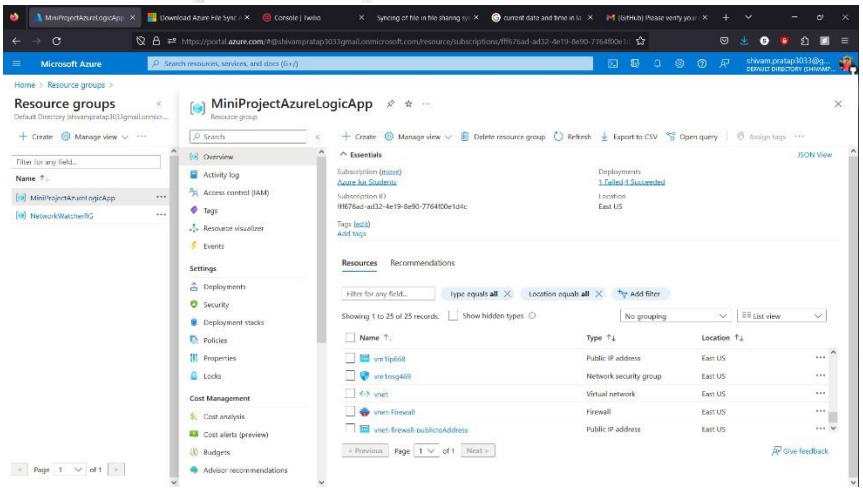
These are all files created in my Resource Group





Shivam Pratap





end