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Group 4: Members

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Problem Statement Retail 360

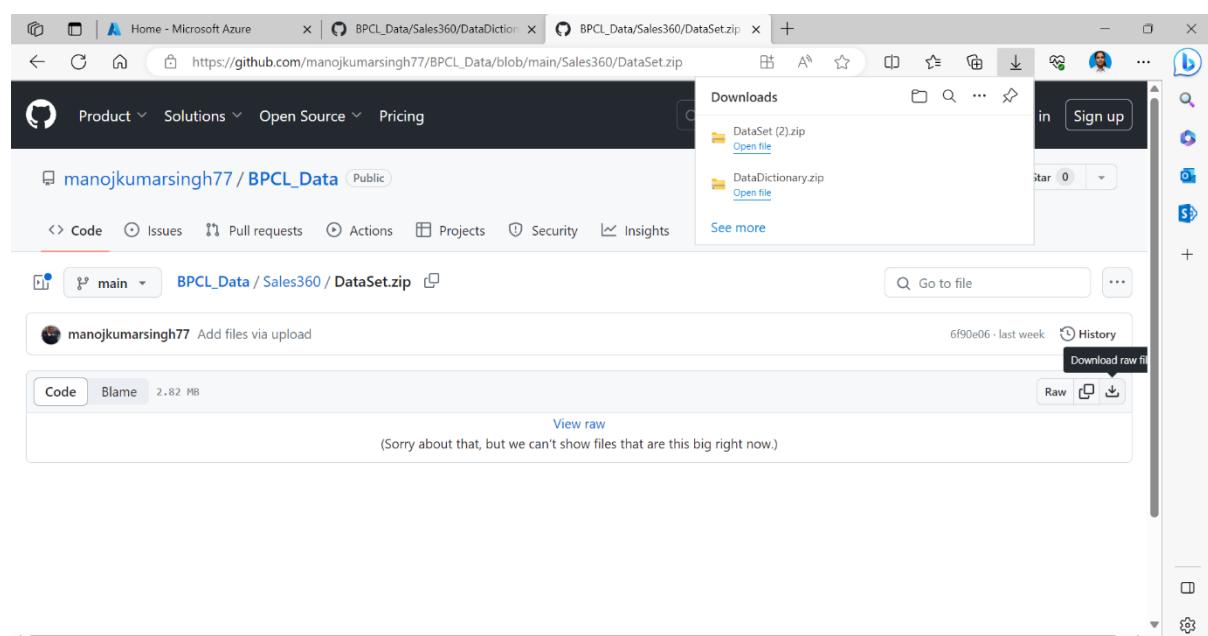
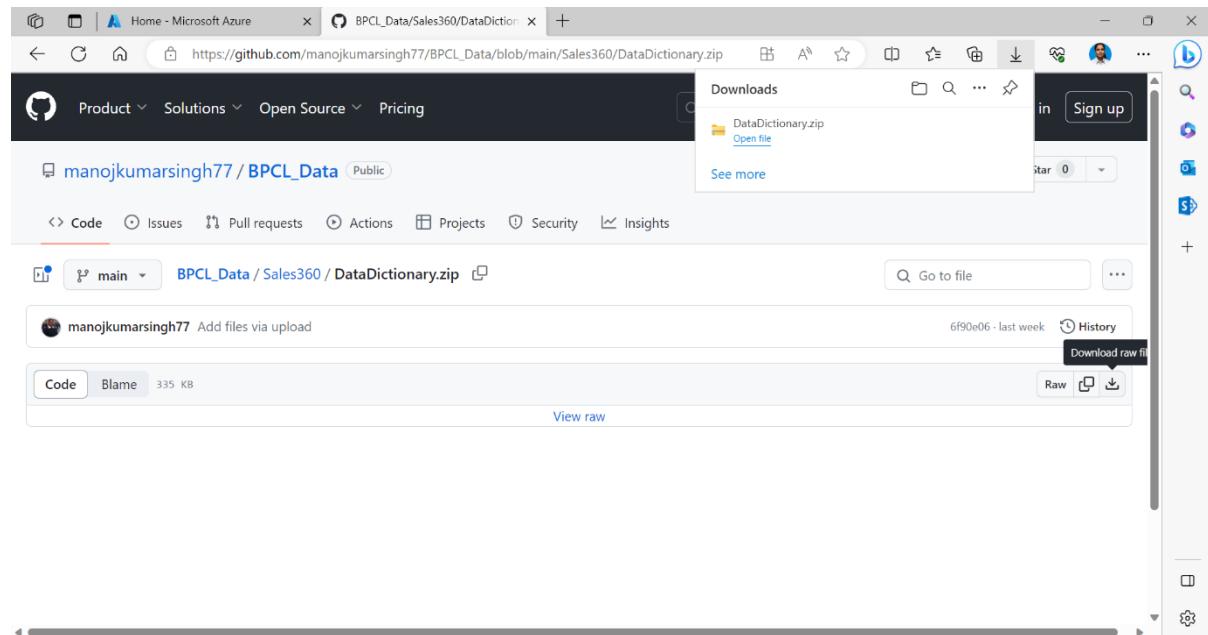
Go-cart, an ecommerce ordering, and delivery application, strives to offer customers a delightful shopping journey by anticipating their product preferences and requirements throughout their interaction.

The data engineer plans to build a strong foundation for data storage, retrieval, and processing by utilizing cloud storage and managing various data sources. The primary objective is to furnish the data science team with a scalable and efficient environment, empowering them to create precise predictive models that anticipate customer preferences effectively. This data-driven strategy will also give Go-

cart a competitive edge over other office supply companies as it targets specific customer segments and optimizes internal spending to boost departmental productivity at Office Depot Europe.

The first step involves is to create a comprehensive document that presents the outputs of the exploratory analysis, identify data issues requiring attention, and highlight key findings from the descriptive analysis.

Data Download



Data Analysis

Go-cart, an ecommerce ordering, and delivery application, strives to offer customers a delightful shopping journey by anticipating their product preferences and requirements throughout their interaction. The dataset comprises relational files that anonymize customer orders, encompassing millions of transactions from geocart users.

Task1

1.1.1 Storage Account Creation and Data Storage

The screenshot shows the Microsoft Azure portal interface for creating a new storage account. The title bar reads "Create a storage account - Microsoft Azure". The address bar shows the URL "portal.azure.com/#create/Microsoft.StorageAccount-ARM". The main content area is titled "Create a storage account" and includes tabs for "Basics", "Advanced", "Networking", "Data protection", "Encryption", "Tags", and "Review". The "Basics" tab is selected. It displays fields for "Subscription" (set to "RDBF") and "Resource group" (set to "RDBF" or "Create new"). Below these, the "Instance details" section shows "Storage account name" set to "group4bpcstorageact" and "Region" set to "(US) East US". At the bottom of the page are navigation buttons for "Review", "< Previous", "Next : Advanced >", and "Give feedback". The taskbar at the bottom of the screen shows various pinned icons and system status information like the date (04-08-2023), time (2022), and weather (29°C).

A Create a storage account - Microsoft Azure +

portal.azure.com/#create/Microsoft.StorageAccount-ARM

Monitor Group NetWeaver Develo... Website Monitorin... SAP SolEd 2019 - A... New Tab RPM resource libgi... Support cases - Re... Free Certification Ex...

Microsoft Azure Search resources, services, and docs (G+/)

Home > Storage accounts >

Create a storage account

Basics Advanced Networking Data protection Encryption Tags Review

Instance details

Storage account name: group4bpclstorageact

Region: (US) East US

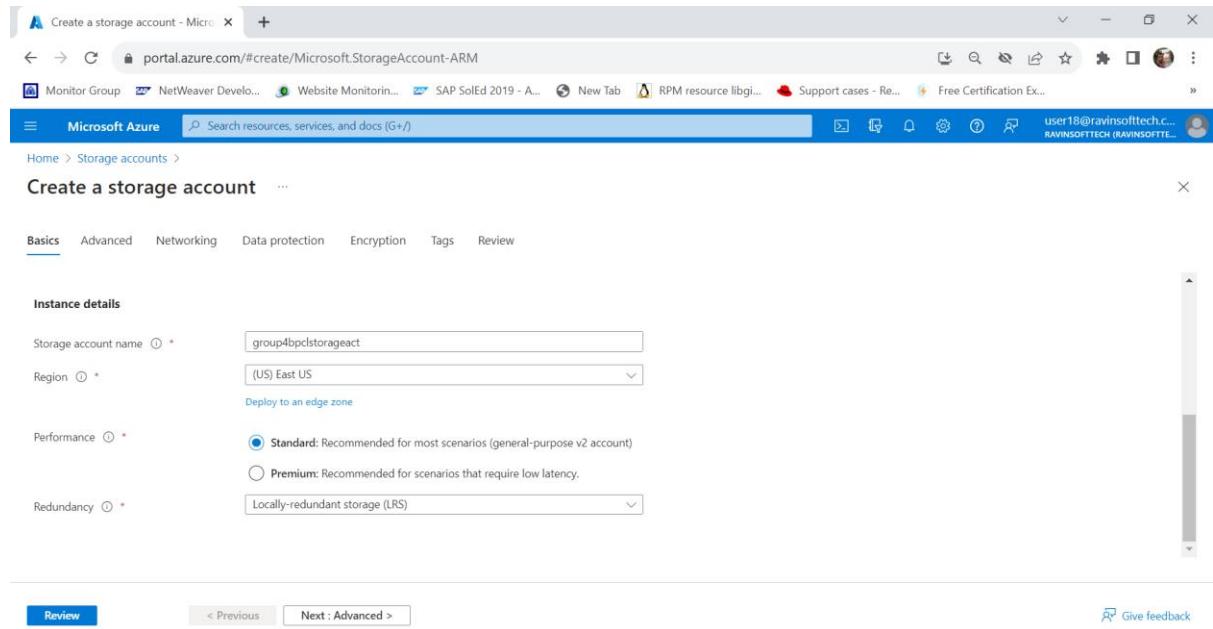
Deploy to an edge zone

Performance: Standard: Recommended for most scenarios (general-purpose v2 account)

Premium: Recommended for scenarios that require low latency.

Redundancy: Locally-redundant storage (LRS)

Review < Previous Next : Advanced > Give feedback



A Create a storage account - Microsoft Azure +

portal.azure.com/#create/Microsoft.StorageAccount-ARM

Monitor Group NetWeaver Develo... Website Monitorin... SAP SolEd 2019 - A... New Tab RPM resource libgi... Support cases - Re... Free Certification Ex...

Microsoft Azure Search resources, services, and docs (G+/)

user18@ravinsofttech.c... RAVINSOFTTECH (RAVINSOFTTECH)

Home > Storage accounts >

Create a storage account

Basics Advanced Networking Data protection Encryption Tags Review

Require secure transfer for REST API operations:

Allow enabling public access on individual containers:

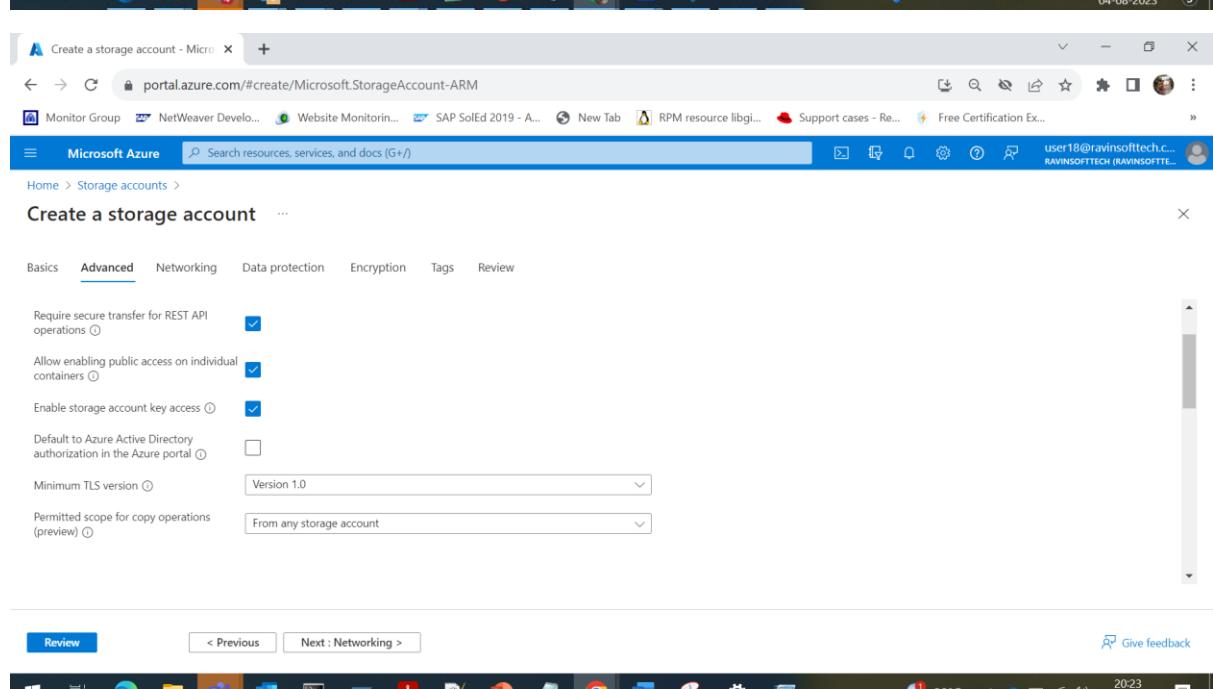
Enable storage account key access:

Default to Azure Active Directory authorization in the Azure portal:

Minimum TLS version: Version 1.0

Permitted scope for copy operations (preview): From any storage account

Review < Previous Next : Networking > Give feedback



A Create a storage account - Microsoft Azure +

portal.azure.com/#create/Microsoft.StorageAccount-ARM

Monitor Group NetWeaver Devlo... Website Monitorin... SAP SolEd 2019 - A... New Tab RPM resource libgi... Support cases - Re... Free Certification Ex...

Microsoft Azure Search resources, services, and docs (G+/-)

Home > Storage accounts >

Create a storage account

Networking

Basics Advanced Networking Data protection Encryption Tags Review

Network connectivity

You can connect to your storage account either publicly, via public IP addresses or service endpoints, or privately, using a private endpoint.

Network access *

Enable public access from all networks

Enable public access from selected virtual networks and IP addresses

Disable public access and use private access

Enabling public access from all networks might make this resource available publicly. Unless public access is required, we recommend using a more restricted access type. [Learn more](#)

Review < Previous Next : Data protection > Give feedback

A Create a storage account - Microsoft Azure +

portal.azure.com/#create/Microsoft.StorageAccount-ARM

Monitor Group NetWeaver Devlo... Website Monitorin... SAP SolEd 2019 - A... New Tab RPM resource libgi... Support cases - Re... Free Certification Ex...

Microsoft Azure Search resources, services, and docs (G+/-)

Home > Storage accounts >

Create a storage account

Networking

Basics Advanced Networking Data protection Encryption Tags Review

Disable public access and use private access

Enabling public access from all networks might make this resource available publicly. Unless public access is required, we recommend using a more restricted access type. [Learn more](#)

Network routing

Determine how to route your traffic as it travels from the source to its Azure endpoint. Microsoft network routing is recommended for most customers.

Routing preference *

Microsoft network routing

Internet routing

Review < Previous Next : Data protection > Give feedback

Create a storage account - Microsoft Azure

portal.azure.com/#create/Microsoft.StorageAccount-ARM

Monitor Group NetWeaver Develo... Website Monitorin... SAP SolEd 2019 - A... New Tab RPM resource libgi... Support cases - Re... Free Certification Ex...

Microsoft Azure Search resources, services, and docs (G+)

Home > Storage accounts > Create a storage account

Basics Advanced Networking Data protection Encryption Tags Review

Tracking

Manage versions and keep track of changes made to your blob data.

Enable versioning for blobs
Use versioning to automatically maintain previous versions of your blobs. [Learn more](#)

Consider your workloads, their impact on the number of versions created, and the resulting costs. Optimize costs by automatically managing the data lifecycle. [Learn more](#)

Enable blob change feed
Keep track of create, modification, and delete changes to blobs in your account. [Learn more](#)

Access control

Review < Previous Next : Encryption > Give feedback



Create a storage account - Microsoft Azure

portal.azure.com/#create/Microsoft.StorageAccount-ARM

Monitor Group NetWeaver Develo... Website Monitorin... SAP SolEd 2019 - A... New Tab RPM resource libgi... Support cases - Re... Free Certification Ex...

Microsoft Azure Search resources, services, and docs (G+)

Home > Storage accounts > Create a storage account

Basics Advanced Networking Data protection Encryption Tags Review

Encryption

Encryption type * Microsoft-managed keys (MMK) Customer-managed keys (CMK)

Enable support for customer-managed keys Blobs and files only All service types (blobs, files, tables, and queues)
⚠ This option cannot be changed after this storage account is created.

Enable infrastructure encryption

Review < Previous Next : Tags > Give feedback



A Create a storage account - Microsoft Azure +

portal.azure.com/#create/Microsoft.StorageAccount-ARM

Monitor Group NetWeaver Devolo... Website Monitorin... SAP SolEd 2019 - A... New Tab RPM resource libgi... Support cases - Re... Free Certification Ex...

Microsoft Azure Search resources, services, and docs (G+/-)

Home > Storage accounts >

Create a storage account

Basics Advanced Networking Data protection Encryption Tags Review

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. [Learn more about tags](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name	Value	Resource
		All resources selected

Review < Previous Next : Review > Give feedback

A Create a storage account - Microsoft Azure +

portal.azure.com/#create/Microsoft.StorageAccount-ARM

Monitor Group NetWeaver Devolo... Website Monitorin... SAP SolEd 2019 - A... New Tab RPM resource libgi... Support cases - Re... Free Certification Ex...

Microsoft Azure Search resources, services, and docs (G+/-)

Home > Storage accounts >

Create a storage account

Basics Advanced Networking Data protection Encryption Tags Review

Basics

Subscription	RDBF
Resource Group	RDBF
Location	eastus
Storage account name	group4bpclstorageact
Deployment model	Resource manager
Performance	Standard
Replication	Locally-redundant storage (LRS)

Advanced

Enable hierarchical namespace	Disabled
Enable network file system v3	Disabled

Create < Previous Next > Download a template for automation Give feedback

Create a storage account - Microsoft Azure

portal.azure.com/#create/Microsoft.StorageAccount-ARM

Monitor Group NetWeaver Develo... Website Monitorin... SAP SolEd 2019 - A... New Tab RPM resource libgi... Support cases - Re... Free Certification Ex...

Microsoft Azure Search resources, services, and docs (G+)

Home > Storage accounts > Create a storage account

Basics Advanced Networking Data protection Encryption Tags Review

Container soft delete Disabled

File share soft delete Disabled

Versioning Disabled

Blob change feed Disabled

Version-level immutability support Disabled

Encryption

Encryption type Microsoft-managed keys (MMK)

Enable support for customer-managed keys Blobs and files only

Enable infrastructure encryption Disabled

Create < Previous Next > Download a template for automation Give feedback

Windows Taskbar: 29°C 2025 04-08-2023

group4bpclstorageact_1691160926647 | Overview

Deployment

Search Delete Cancel Redeploy Download Refresh

Overview Inputs Outputs Template

Your deployment is complete

Deployment name: group4bpclstorageact_1691160926647 Start time: 8/4/2023, 8:25:39 PM
Subscription: RDBF Correlation ID: 1e2edfed-26dd-4fd8-9dbf-7d89661327f Go to resource

Deployment details

Next steps

Go to resource Give feedback Tell us about your experience with deployment

Cost Management Get notified to stay within your budget and prevent unexpected charges on your bill. Set up cost alerts >

Microsoft Defender for Cloud Secure your apps and infrastructure. Go to Microsoft Defender for Cloud >

Free Microsoft tutorials Start learning today >

Work with an expert Azure experts are service provider partners

Windows Taskbar: 29°C 2026 04-08-2023

group4bpclstorageact - Microsoft Edge

portal.azure.com/#@ravinsofttech.com/resource/subscriptions/5464fa55-993e-42e2-b3a4-206cba24f19e/resourcegroups/RDBF/providers/Microsoft.Storage/storageAccounts/group4bpclstorageact

Monitor Group NetWeaver Develo... Website Monitorin... SAP SolEd 2019 - A... New Tab RPM resource libgi... Support cases - Re... Free Certification Ex...

Microsoft Azure Search resources, services, and docs (G+/-)

Home > group4bpclstorageact_1691160926647 | Overview >

group4bpclstorageact Storage account

Search

Upload Open in Explorer Delete Move Refresh Open in mobile CLI / PS Feedback

JSON View

Overview

Activity log Tags Diagnose and solve problems Access Control (IAM) Data migration Events Storage browser Storage Mover

Resource group (move) : RDBF Location : East US Subscription (move) : RDBF Subscription ID : 5464fa55-993e-42e2-b3a4-206cba24f19e Disk state : Available Tags (edit) : Add tags

Performance : Standard Replication : Locally-redundant storage (LRS) Account kind : StorageV2 (general purpose v2) Provisioning state : Succeeded Created : 8/4/2023, 8:25:46 PM

Properties Monitoring Capabilities (7) Recommendations (0) Tutorials Tools + SDKs

Blob service Security

Hierarchical namespace	Disabled	Require secure transfer for REST API operations	Enabled
Default access tier	Hot	Storage account key access	Enabled
Blob public access	Enabled	Minimum TLS version	Version 1.0
Blob soft delete	Disabled	Infrastructure encryption	Disabled
Container soft delete	Disabled		

Containers File shares Queues Tables

Windows Taskbar 2026 04-08-2023

group4bpclstorageact - Microsoft Edge

portal.azure.com/#@ravinsofttech.com/resource/subscriptions/5464fa55-993e-42e2-b3a4-206cba24f19e/resourcegroups/RDBF/providers/Microsoft.Storage/storageAccounts/group4bpclstorageact

Monitor Group NetWeaver Develo... Website Monitorin... SAP SolEd 2019 - A... New Tab RPM resource libgi... Support cases - Re... Free Certification Ex...

Microsoft Azure Search resources, services, and docs (G+/-)

Home > group4bpclstorageact_1691160926647 | Overview > group4bpclstorageact

group4bpclstorageact | Containers Storage account

Search

+ Container Change access level Restore containers Refresh Delete Give feedback

Search containers by prefix

Show deleted containers

Name	Last modified	Public access level	Lease state
\$logs	8/4/2023, 8:26:13 PM	Private	Available

Containers File shares Queues

https://portal.azure.com/#@ravinsofttech.com/resource/subscriptions/5464fa55-993e-42e2-b3a4-206cba24f19e/resourcegroups/RDBF/providers/Microsoft.Storage/storageAccounts/group4bpclstorageact/containersList

Windows Taskbar 2027 04-08-2023

New container - Microsoft Azure

portal.azure.com/#@ravinsofttech.com/resource/subscriptions/5464fa55-993e-42e2-b3a4-206cba24f19e/resourcegroups/RDBF/prov...

Monitor Group NetWeaver Develo... Website Monitorin... SAP SolEd 2019 - A... New Tab RPM resource libgi... Support cases - Re... Free Certification Ex...

Microsoft Azure Search resources, services, and docs (G+/-)

Home > group4bpclstorageact_1691160926647 | Overview > group4bpclstorageact

group4bpclstorageact | Containers

Storage account

Search Container Change access level Restore containers Refresh Delete Give feedback

Name Last modified Public access level

\$logs 8/4/2023, 8:26:13 PM Private

Overview Activity log Tags Diagnose and solve problems Access Control (IAM) Data migration Events Storage browser Storage Mover Data storage Containers File shares Queues Tables

Create Give feedback

29°C 04-08-2023

New container

Name * group4bpclretailsales360container

Public access level Private (no anonymous access)

Advanced

group4bpclstorageact - Microsoft Azure

portal.azure.com/#@ravinsofttech.com/resource/subscriptions/5464fa55-993e-42e2-b3a4-206cba24f19e/resourcegroups/RDBF/prov...

Monitor Group NetWeaver Develo... Website Monitorin... SAP SolEd 2019 - A... New Tab RPM resource libgi... Support cases - Re... Free Certification Ex...

Microsoft Azure Search resources, services, and docs (G+/-)

Home > group4bpclstorageact_1691160926647 | Overview > group4bpclstorageact

group4bpclstorageact | Containers

Storage account

Search Container Change access level Restore containers Refresh Delete Give feedback

Name Last modified Public access level Lease state

\$logs 8/4/2023, 8:26:13 PM Private Available ...

group4bpclretailsales360container 8/4/2023, 8:28:23 PM Private Available ...

Overview Activity log Tags Diagnose and solve problems Access Control (IAM) Data migration Events Storage browser Storage Mover Data storage Containers File shares Queues Tables

Successfully created storage container Successfully created storage container 'group4bpclretailsales360container'.

Show deleted containers

29°C 04-08-2023

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes links for Monitor Group, NetWeaver Development, Website Monitoring, SAP SolEd 2019 - A..., New Tab, RPM resource library, Support cases - Re..., and Free Certification Ex... The user is signed in as user18@ravinsofttech.com (RAVINSOFTTECH). The main content area displays the 'Overview' tab for the 'group4bpclretailsales360container'. Key details shown include:

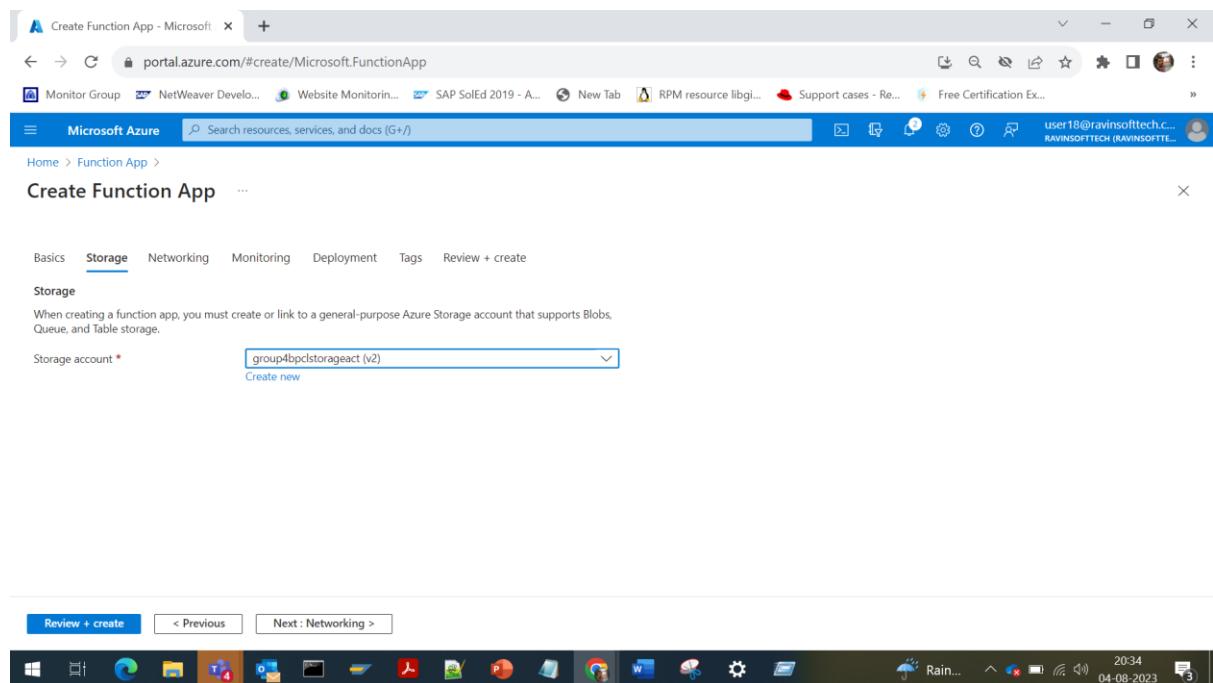
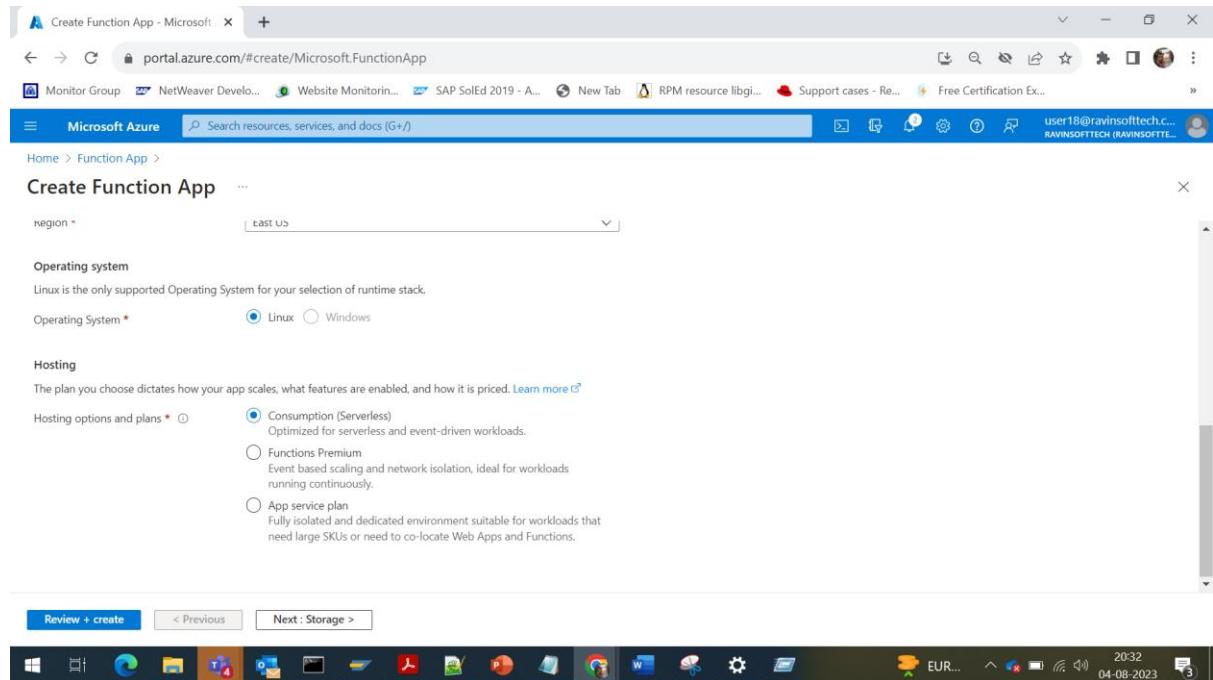
- Authentication method:** Access key ([Switch to Azure AD User Account](#))
- Location:** group4bpclretailsales360container
- Search blobs by prefix (case-sensitive):** Search bar with a dropdown for 'Show deleted blobs'.
- Add filter:** A button to apply filters to the blob list.
- Table Headers:** Name, Modified, Access tier, Archive status, Blob type, Size, Lease state.
- No results:** A message indicating there are no blobs in the container.

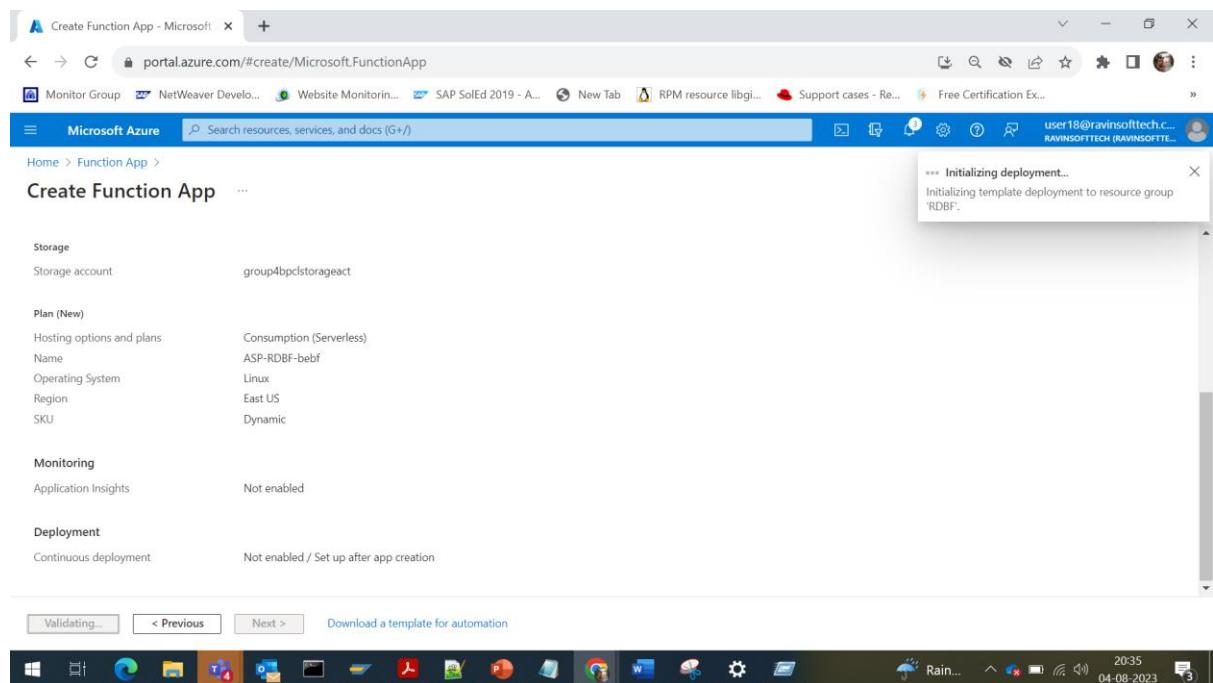
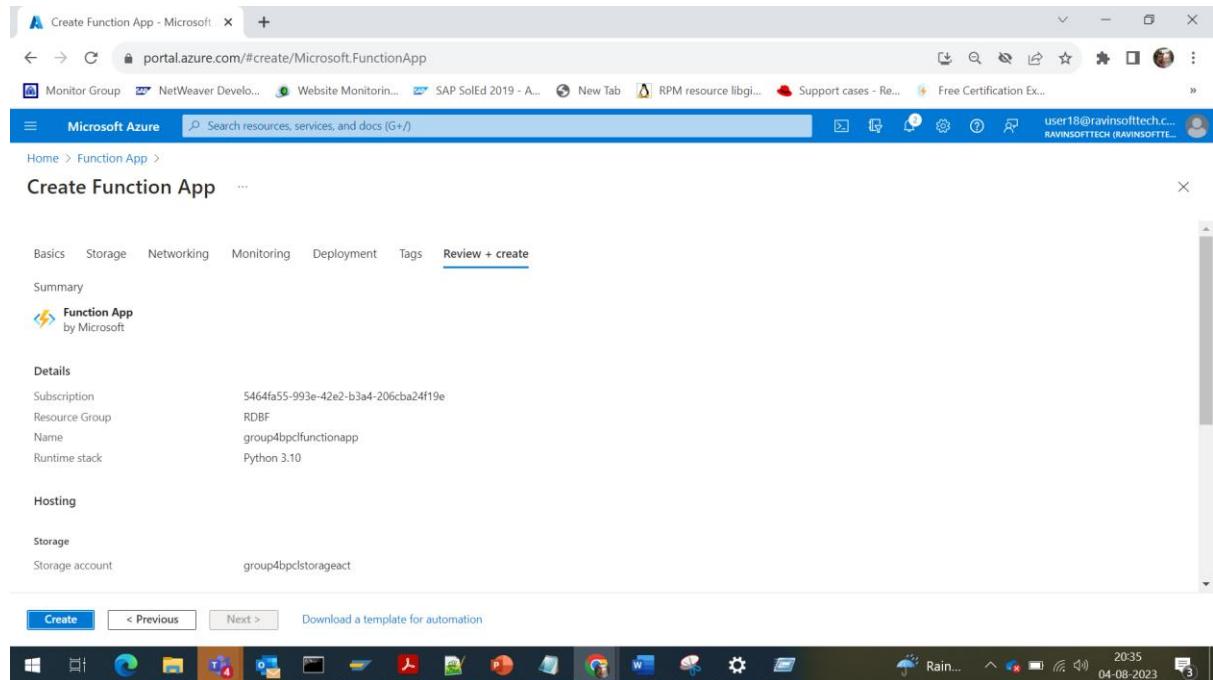
1.1.2. Alerting using Azure Function Trigger

The screenshot shows the Microsoft Azure portal interface, specifically the 'Create Function App' wizard. The top navigation bar includes links for Monitor Group, NetWeaver Development, Website Monitoring, SAP SolEd 2019 - A..., New Tab, RPM resource library, Support cases - Re..., and Free Certification Ex... The user is signed in as user18@ravinsofttech.com (RAVINSOFTTECH). The main content area displays the 'Create Function App' page, currently on the 'Project Details' step. Key fields and options shown include:

- Subscription ***: RDBF
- Resource Group ***: RDBF (selected)
- Function App name ***: group4bpclfunctionapp (suffix .azurewebsites.net)
- Do you want to deploy code or container image? ***: Code (radio button selected)
- Runtime stack ***: Python
- Version ***: 3.10

At the bottom of the form are buttons for 'Review + create' and 'Next : Storage >'. The taskbar at the bottom of the screen shows various pinned application icons.





Microsoft.Web.FunctionApp-Portal | Overview

Deployment succeeded

Your deployment is complete

Deployment name: Microsoft.Web.FunctionApp-Portal-b5f0a936... Start time: 8/4/2023, 8:35:49 PM
Subscription: RDBF Correlation ID: 8e138df7-1dea-44ef-985b-6b502d06a85f

Deployment details

Next steps

Create a function. Recommended
Manage deployments for your app. Recommended

Go to resource

Give feedback

Tell us about your experience with deployment

Cost Management
Get notified to stay within your budget and prevent unexpected charges on your bill.
Set up cost alerts >

Microsoft Defender for Cloud
Secure your apps and infrastructure
Go to Microsoft Defender for Cloud >

Free Microsoft tutorials
Start learning today >

Work with an expert
Azure experts are service provider partners

2036 29°C 04-08-2023

group4bpclfunctionapp - Microsoft Azure | Create function - Microsoft Azure

group4bpclfunctionapp | Functions

Create function

Development environment: Develop in portal

Programming Model: v1 Programming Model

Select a template

Use a template to create a function. Triggers describe the type of events that invoke your functions. Learn more

Azure Queue Storage trigger
A function that will be run whenever a message is added to a specified Azure Storage queue

Azure Service Bus Queue trigger
A function that will be run whenever a message is added to a specified Service Bus queue

Azure Service Bus Topic trigger
A function that will be run whenever a message is added to the specified Service Bus topic

Azure Blob Storage trigger
A function that will be run whenever a blob is added to a specified container

Azure Event Hub trigger
A function that will be run whenever an event hub receives a new event

Azure Cosmos DB trigger
A function that will be run whenever documents change in a document collection

Azure Event Grid trigger
A function that will be run whenever an event grid receives a new event

Durable Functions HTTP starter
A function that will trigger whenever it receives an HTTP request to execute an orchestrator function.

Create Cancel

2052 29°C 04-08-2023

The screenshot shows the Microsoft Azure portal interface. The main window displays the 'Create function' dialog for a blob storage trigger. The dialog includes a list of triggers: Azure Blob Storage trigger, Azure Event Hub trigger, Azure Cosmos DB trigger, Azure Event Grid trigger, Durable Functions HTTP starter, and Durable Functions activity. A sub-dialog titled 'New Storage Account connection' is open, prompting for a storage account connection named 'group4bpclstorageact'. The background shows the Azure Functions blade for the 'group4bpclfunctionapp' function app, with the 'Functions' section selected. The left sidebar lists various management options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Microsoft Defender for Cloud, and Events (preview). The bottom status bar shows system information including the date and time.

Application Insights

The screenshot shows the Microsoft Azure portal interface. The main window displays the Application Insights settings for the 'retail360fa' function app. The 'Application Insights' section is selected in the left sidebar. The right pane shows a summary message stating that the app is connected to the 'retail360fa' Application Insights resource. It also provides links to turn off Application Insights entirely or change the resource. The bottom of the pane has an 'Apply' button. The background shows the Azure Functions blade for the 'retail360fa' function app, with the 'Deployment' section selected. The left sidebar lists other settings like Configuration, Authentication, Identity, Backups, Custom domains, Certificates, Networking, Scale up (App Service plan), Scale out, and Service Connector.

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes tabs for 'group4bpcretailsales360contain...', 'BlobTrigger1 - Microsoft Azure', and a new tab indicator. Below the navigation bar is a toolbar with icons for Monitor Group, NetWeaver Develop..., Website Monitoring, SAP SolEd 2019, New Tab, RPM resource libgi..., Support cases, and Free Certification Ex... The main content area displays the 'BlobTrigger1' function details under the 'Function' category. The 'Overview' tab is selected, showing the following information:

- Resource group: rdbe
- Location: East US
- Subscription: RDBE
- Subscription ID: 5464fa55-993e-42e2-b3a4-206cba24f19e
- Function app: group4bpcrefunctionapp
- Tags: Add tags

On the right side, there is an 'Application Insights' section for 'group4bpcrefunctionapp'. The bottom of the screen shows a Windows taskbar with various pinned icons and the system tray indicating the date as 04-08-2023 and time as 21:01.

The screenshot shows the Microsoft Azure portal interface, specifically the 'Code + Test' panel for the BlobTrigger1 function. The top navigation bar and toolbar are identical to the previous screenshot. The main content area displays the 'Code + Test' panel for the 'group4bpcrefunctionapp \ BlobTrigger1 \ __init__.py' file. The code editor shows the following Python code:

```
1 import logging
2
3 import azure.functions as func
4
5
6 def main(myblob: func.InputStream):
7     logging.info(f"Python blob trigger function processed blob \n"
8                 f"Name: {myblob.name}\n"
9                 f"Blob Size: {myblob.length} bytes")
10
```

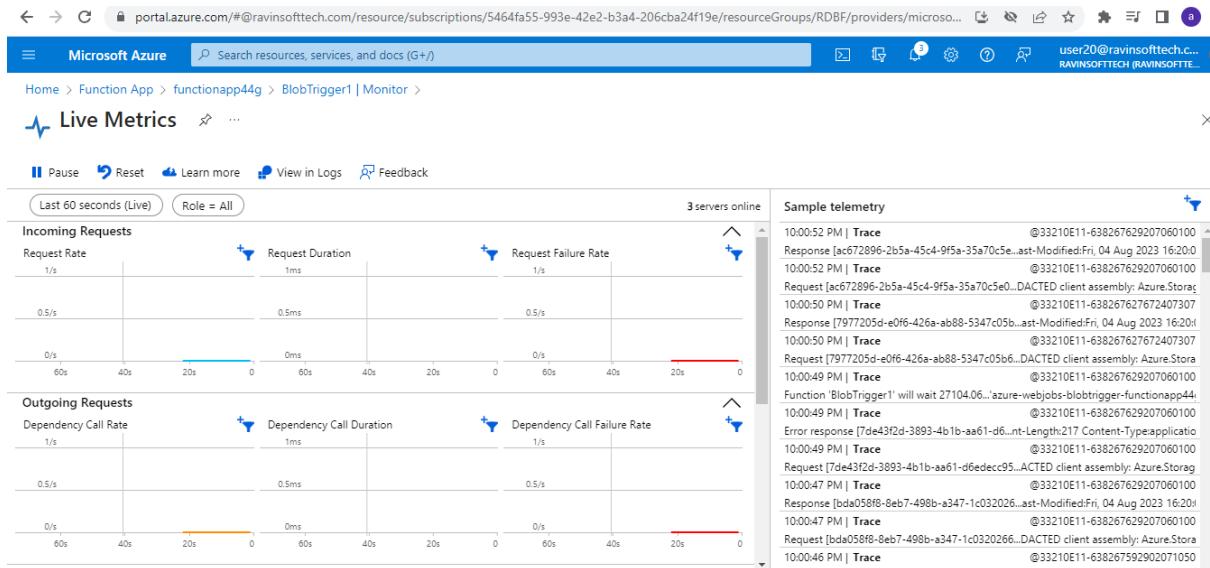
To the right of the code editor, there are tabs for 'Input' and 'Output'. The 'Output' tab is selected, showing the following results:

- HTTP response code: 202 Accepted
- HTTP response content: (empty)

At the bottom of the code editor, a message states: 'Connected! You are now viewing logs of Function runs in the current Code + Test panel. To see all the logs for this Function, please go to 'Monitor' from the Function menu.' There are 'Run' and 'Close' buttons at the bottom right.

1.1.3 Create a tabular format to illustrate the type of dataset, no of columns, frequency of access, critical /sensitive, Transactional data (RW), Cost of storage and security in Azure Storage account perspective.

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
bank.csv	8/4/2023, 10:01:46 PM	Hot (Inferred)		Block blob	4.66 MiB	Available
customer.csv	8/4/2023, 10:53:27 PM	Hot (Inferred)		Block blob	233.96 KiB	Available
lineitem.csv	8/4/2023, 10:53:30 PM	Hot (Inferred)		Block blob	7.04 MiB	Available
nation.csv	8/4/2023, 10:53:25 PM	Hot (Inferred)		Block blob	2.19 KiB	Available
orders.csv	8/4/2023, 10:53:28 PM	Hot (Inferred)		Block blob	1.57 MiB	Available
part.csv	8/4/2023, 10:53:27 PM	Hot (Inferred)		Block blob	229.7 KiB	Available
partsupp.csv	8/4/2023, 10:53:28 PM	Hot (Inferred)		Block blob	1.1 MiB	Available
region.csv	8/4/2023, 10:53:27 PM	Hot (Inferred)		Block blob	413 B	Available
supplier.csv	8/4/2023, 10:53:28 PM	Hot (Inferred)		Block blob	13.44 KiB	Available



Data Analysis:

Sr. No	Data File	Data Set	No. Of Columns	Criticality of data	Transactional data	Security
1	customer	SQL Dataset	8	critical	yes	Yes
2	orders	SQL Dataset	9	Critical	Yes	Yes
3	nation	SQL Dataset	4	no	No	No
4	Part	SQL Dataset	9	Critical	Yes	Yes
5	partsupp	SQL Dataset	7	Critical	Yes	Yes
6	region	SQL Dataset	3	No	No	No
7	lineitem	SQL Dataset	16	Critical	Yes	Yes
8	supplier	SQL Dataset	7	Critical	yes	yes

Cost Of Azure storage:

Storage Type	Description	Pricing
Azure Block Blobs	Scalable object storage for documents, videos, images, and unstructured text or binary data. There are 3 tiers to choose from Hot, Cool or Archive.	Prices for LRS Archive Block Blob with 3 years of reserved capacity start at \$0.00081 / GB per month.

<u>Azure Data Lake Storage Gen2</u>	Combines the power of a Hadoop-compatible file system (which uses an integrated hierarchical namespace) with the massive scale and economy of Azure Blob Storage.	Prices for LRS archive storage with 3 years of reserved capacity start at \$0.00081 / GB per month.
<u>Azure Managed Disks</u>	Persistent, secure disks that support easy and scalable virtual machine deployment; designed to achieve 99.999% availability.	Prices for standard managed disks start at \$1.54 per month.

Security in Azure Storage account perspective:

Following security features available as part of Azure storage account:

1. Azure Defender
2. Soft delete which allows data recovery
3. Access Control
4. RBAC
5. Blob versioning
6. Restricted access provisioning
7. Firewall rules
8. Limit access from specific networks
9. Enable encryption
10. Alerts, trigger etc.
