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ST10384670

CLOUDDEV2



LINKS....

**Deployed Application URL:**

 <https://functionapp3-gzbkh0hqgvdbgwdq.southafricanorth-01.azurewebsites.net>

**GitHub Repository Link:**

[VCDN-2025/cldv6212-poe-part-2-ST10384670 at master](#)

[VCDN-2025/cldv6212-poe-part-2-ST10384670: cldv6212-poe-part-2-ST10384670  
created by GitHub Classroom](#)

[cldv6212-poe-part-2-ST10384670](#)

*I have to separate codes for my functionApp and my mvc app both linked but diff codes  
on is on master and the other is on main*

*And both un and connect to my storage account equally*

## Screenshots of Successful Implementation

### Table Storage entries (after storing data).

The screenshot shows the Microsoft Azure Storage browser interface for the 'zaneee' storage account. The left sidebar navigation includes Home, Overview, Activity log, Tags, Diagnose and solve problems, Access Control (IAM), Data migration, Events, Storage browser (which is selected and highlighted in grey), Storage Mover, Partner solutions, Resource visualizer, Data storage, Security + networking, Networking, Front Door and CDN, Access keys, and Shared access signature. The main content area displays a list of tables under the 'Tables' section. The table details are as follows:

Name	Url
AzureFunctionsDiagnosticEvents202510	https://zaneee.table.core.windows.net/AzureFunctionsDiagnosticEvents20...
customer	https://zaneee.table.core.windows.net/customer
order	https://zaneee.table.core.windows.net/order
Product	https://zaneee.table.core.windows.net/Product
products	https://zaneee.table.core.windows.net/products

The screenshot shows the Microsoft Azure Storage browser interface for a storage account named 'zaneee'. On the left, a navigation sidebar lists various Azure services like Overview, Activity log, Tags, etc., with 'Storage browser' selected. The main area displays a table named 'customer'. The table has columns: PartitionKey, RowKey, Timestamp, CustomerId, CustomerName, and Em. It contains two rows: one for 'Customer' (RowKey: ee43f1fa-54b5-4a70-b19b..., Timestamp: 2025-10-07T16:49:58.3877..., CustomerId: 0, CustomerName: zane, Em: tshe) and one for 'Customers' (RowKey: a6c8243b-5ece-4467-8a2..., Timestamp: 2025-10-07T16:25:24.7959..., CustomerId: 0, CustomerName: zane, Em: st1C). The interface includes a search bar, filter options, and a toolbar with buttons for Add entity, Refresh, Delete, and Edit columns.

## Blob upload confirmation.

The screenshot shows the Microsoft Azure Storage browser interface for a storage account named 'zaneee'. The 'Blob containers' section is selected in the navigation sidebar. It lists four containers: '\$logs', 'azure-webjobs-hosts', 'azure-webjobs-secrets', and 'customerimages'. Each container entry shows its name, last modified date (e.g., 2025/10/06, 01:01:11), anonymous access level (e.g., Private), and lease state (e.g., Available). A search bar at the top allows filtering by container prefix, and a dropdown menu lets users 'Only show active containers'.

## Blob container

The screenshot shows the Microsoft Azure Storage browser interface for a storage account named "zaneee". The left sidebar lists various Azure services, with "Storage browser" selected. The main pane displays the "customerimages" blob container. It shows one blob named "ee43ffaa-5...". The table below provides details about this blob:

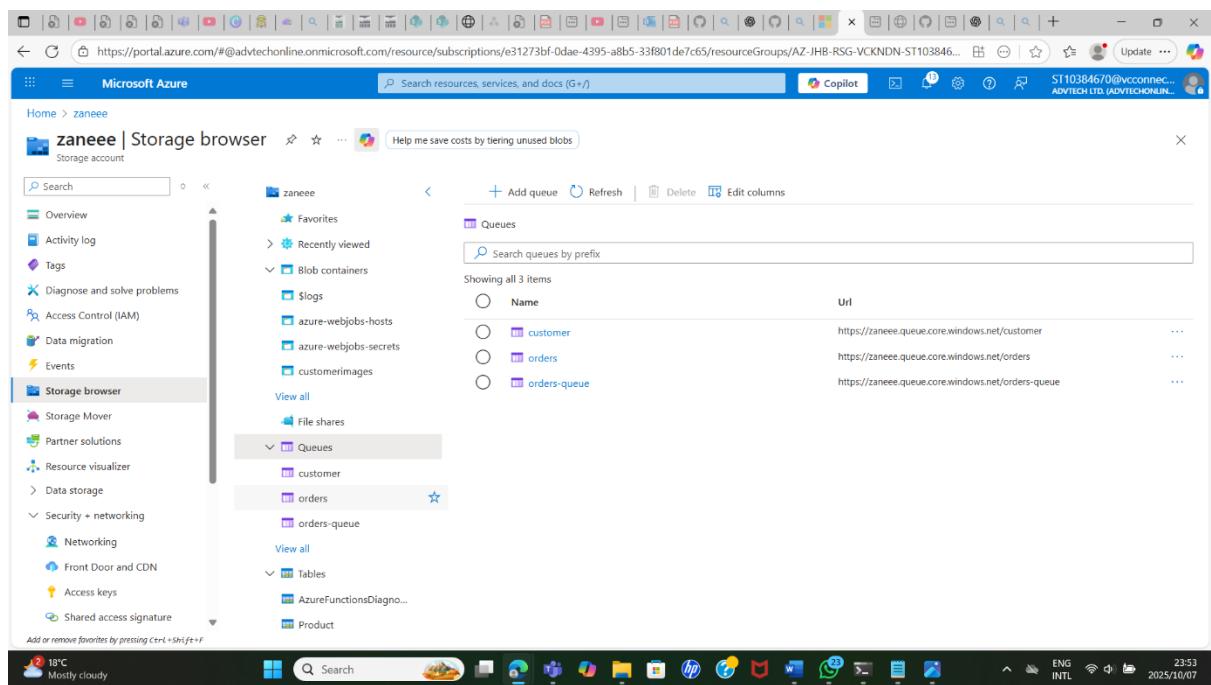
Name	Last modified	Access tier	Blob type	Size	Lease state
ee43ffaa-5...	2025/10/07, 18:49:58	Hot (inferred)	Block blob	15.18 KB	Available

## Customer blob images

The screenshot shows the Microsoft Azure Storage browser interface for a storage account named "zaneee". The left sidebar lists various Azure services, with "Storage browser" selected. The main pane displays the "azure-webjobs-hosts" blob container. It shows two blobs named "locks" and "synctriggers". The table below provides details about these blobs:

Name	Last modified	Access tier	Blob type	Size	Lease state
locks					
synctriggers					

## Queue message visible in Azure Storage Explorer.



Order queue

The screenshot shows the Microsoft Azure Storage browser interface. On the left, a sidebar lists various storage-related services like Overview, Activity log, Tags, and Storage browser. Under Storage browser, there are options for Storage Mover, Partner solutions, Resource visualizer, Data storage, Security + networking, Networking, Front Door and CDN, Access keys, and Shared access signature. The main pane displays a queue named 'orders-queue'. The queue details show an authentication method of 'Access key' and a single message entry:

Message text	Id	Insertion time	Expiration time	Dequeue count
Order updated: a2fd9dbc-591a-4fca-9721-02ef...	40c45be6-4c76-4744-9d10...	2025/10/07, 18:05:47	2025/10/14, 18:05:47	0

The status bar at the bottom indicates it's 18°C and mostly cloudy.

## Customer q

This screenshot is identical to the one above, showing the Microsoft Azure Storage browser interface. It displays the 'orders-queue' and a single message entry. The message text is 'Customers order'. The status bar at the bottom indicates it's 18°C and mostly cloudy.

The screenshot shows the Microsoft Azure Storage browser interface for a storage account named 'zaneee'. The left sidebar lists various Azure services like Overview, Activity log, Tags, Diagnose and solve problems, Access Control (IAM), Data migration, Events, and Storage browser. The Storage browser section is selected. The main pane displays a queue named 'orders' under 'Queues'. A single message, 'random orders', is listed with the following details:

Message text	ID	Insertion time	Expiration time	Dequeue count
random orders	Bafdf0412-da6a-445b-bc0...	2025/10/07, 00:20:51	2025/10/14, 00:20:51	0

## Azure Files or File Share content upload confirmation.

The screenshot shows the Microsoft Azure Storage browser interface for a storage account named 'zaneee'. The left sidebar lists various Azure services like Overview, Activity log, Tags, Diagnose and solve problems, Access Control (IAM), Data migration, Events, and Storage browser. The Storage browser section is selected. The main pane displays a file share named 'uploads' under 'File shares'. One item, 'Transaction optimized', is listed with the following details:

Name	Tier	Modified	Quota
uploads	Transaction optimized	2025/10/07, 14:47:55	100 TiB

File share, my content is called uploads

## Deployed Function App dashboard (showing all functions deployed).

The screenshot shows the Microsoft Azure Function App Overview page for the app 'Microsoft.Web-FunctionApp-Portal-3a820848-9048'. The deployment status is shown as 'Deployment succeeded' with a green checkmark icon. The deployment summary indicates a successful deployment from 'Microsoft.Web-FunctionApp-Portal-3a820848-9048' to resource group 'AZ-JHB-RSG-VCKNDN-ST10384670-TER'. Deployment details include the deployment name, subscription information ('ADVTECH-Tertiary Varsity College'), and resource group ('AZ-JHB-RSG-VCKNDN-ST10384670-TER'). The deployment started at 07/10/2025, 22:39:23. A Correlation ID is also provided: b51af9bf-1436-4feb-ac16-503d677272d2. Below the deployment summary, there are sections for 'Deployment details' and 'Next steps'. A prominent blue button labeled 'Go to resource' is located at the bottom of the main content area. To the right of the main content, there are several promotional cards: 'Cost management' (with a budget icon), 'Microsoft Defender for Cloud' (with a shield icon), 'Free Microsoft tutorials' (with a book icon), and 'Work with an expert' (with a person icon). A small note at the bottom left of the page says 'Add or remove favorites by pressing Ctrl+Shift+F'.

## App deployment

### **Section B: Using Azure Event Hubs Services to Enhance the Customer Experience**

The system could incorporate Azure Event Hubs to manage streaming data in real time, including:

monitoring consumer behaviour and product consumption.

gathering event logs for analytics purposes from the web application.

enabling real-time dashboards for store managers to keep an eye on system health or sales.

**Value Added:** Facilitates data-driven decision-making and enhances responsiveness.

### Event Bus for Azure (Service Bus)

Communication between application components and dependable message queuing are made possible by Azure Service Bus.

It might:

Handle alerts and order confirmations asynchronously.

Organise the backend services, other APIs, and the web application's interactions.

Value Added: Enhances user experience by guaranteeing that messages are processed when systems are ready, even in the event that one service is momentarily unavailable.

## References

1. Microsoft Learn. (2025). *Azure Functions Overview*. Retrieved from <https://learn.microsoft.com/en-us/azure/azure-functions/>
2. Microsoft Learn. (2025). *Azure Storage Documentation*. Retrieved from <https://learn.microsoft.com/en-us/azure/storage/>
3. Microsoft Learn. (2025). *Event Hubs and Service Bus*. Retrieved from <https://learn.microsoft.com/en-us/azure/event-hubs/>



