

## Microsoft Azure Screenshots

The first screenshot shows the Microsoft Azure portal interface for a container named 'aishamain'. The left sidebar contains navigation options: Overview, Diagnose and solve problems, Access Control (IAM), Settings, Shared access tokens, Access policy, Properties, and Metadata. The main area displays the container's details, including the authentication method (Access key) and location (aishamain). A table lists the blobs in the container, with columns for Name, Modified, Access tier, Archive status, Blob type, Size, and Lease state. A single blob is visible: '0\_623497e92a77455...' with a size of 11.96 KiB and a lease state of 'Available'. An Anaconda Prompt window is overlaid on the bottom right, showing a series of messages: 'Message 560 successfully sent!', 'Message 561 successfully sent!', 'Message 562 successfully sent!', 'Message 563 successfully sent!', 'Message 564 successfully sent!', and 'Message 565 successfully sent!'. The prompt also shows the current directory as '(base) C:\Users\DELL\Desktop\IIOT\_A3>'. The taskbar at the bottom shows the Windows search bar, taskbar icons, and system tray information (35°C Haze, 10:57 PM, 5/16/2024).

The second screenshot shows the Microsoft Azure portal interface for a blob named '0\_623497e92a7745559eb9dcef3c5dfb99\_1.json'. The left sidebar is the same as in the first screenshot. The main area displays the blob's details, including the authentication method (Access key) and location (aishamain). The blob is listed in a table with columns for Name, Modified, Access tier, Archive status, Blob type, Size, and Lease state. The blob '0\_623497e92a7745559eb9dcef3c5dfb99\_1.json' is visible with a size of 11.96 KiB and a lease state of 'Available'. The 'Edit' tab is selected, showing the blob's content as a JSON array of 13 objects, each containing 'lat', 'lng', 'count', and 'DistancefromDestinationInMeters' values. The taskbar at the bottom shows the Windows search bar, taskbar icons, and system tray information (35°C Haze, 10:57 PM, 5/16/2024).

L200921  
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Assignment 3

The screenshot shows the Microsoft Azure portal interface. On the left, the 'aishamain' container is selected under 'Storage accounts > aishaiota3 | Containers > aishamain'. The 'Overview' tab is active, showing the authentication method as 'Access key' and the location as 'aishamain'. A search bar for blobs by prefix is visible. On the right, the '0\_623497e92a7745559eb9dcef3c5dfb99\_1.json' blob is selected. The 'Edit' tab is active, displaying the JSON content of the blob. The JSON is a list of 10 objects, each containing 'lat', 'lng', 'count', and 'DistancefromDestinationInMeters' values.

```
553 {"lat":74.30008,"lng":31.48006,"count":552,"DistancefromDestinationInMeters":258.0112709}
554 {"lat":74.30045,"lng":31.48084,"count":553,"DistancefromDestinationInMeters":216.417671}
555 {"lat":74.30088,"lng":31.48111,"count":554,"DistancefromDestinationInMeters":168.201712}
556 {"lat":74.30132,"lng":31.48136,"count":555,"DistancefromDestinationInMeters":119.100900}
557 {"lat":74.30144,"lng":31.48143,"count":556,"DistancefromDestinationInMeters":105.775573}
558 {"lat":74.30176,"lng":31.48161,"count":557,"DistancefromDestinationInMeters":70.5611660}
559 {"lat":74.30215,"lng":31.48184,"count":558,"DistancefromDestinationInMeters":30.3809031}
560 {"lat":74.3022,"lng":31.48177,"count":559,"DistancefromDestinationInMeters":24.49481931}
561 {"lat":74.30228,"lng":31.48162,"count":560,"DistancefromDestinationInMeters":14.5420089}
562 {"lat":74.30231,"lng":31.48155,"count":561,"DistancefromDestinationInMeters":10.5971684}
563 {"lat":74.30236,"lng":31.48145,"count":562,"DistancefromDestinationInMeters":4.30096123}
564 {"lat":74.30238,"lng":31.48138,"count":563,"DistancefromDestinationInMeters":1.31417470}
565 {"lat":74.30239,"lng":31.48136,"count":564,"DistancefromDestinationInMeters":0.19387726}
```

The screenshot shows the Microsoft Azure portal interface. On the left, the 'aishamain' container is selected under 'Storage accounts > aishaiota3 | Containers > aishamain'. The 'Overview' tab is active, showing the authentication method as 'Access key' and the location as 'aishamain'. A search bar for blobs by prefix is visible. On the right, the '0\_623497e92a7745559eb9dcef3c5dfb99\_1.json' blob is selected. The 'Properties' tab is active, displaying the properties of the blob. The properties include URL, LAST MODIFIED, CREATION TIME, VERSION ID, TYPE, SIZE, ACCESS TIER, ACCESS TIER LAST MODIFIED, ARCHIVE STATUS, REHYDRATE PRIORITY, SERVER ENCRYPTED, ETAG, and VERSION-LEVEL IMMUTABILITY POLICY.

Property	Value
URL	https://aishaiota3.blob...
LAST MODIFIED	5/16/2024, 10:57:21 PM
CREATION TIME	5/16/2024, 10:49:05 PM
VERSION ID	-
TYPE	Block blob
SIZE	53.55 KiB
ACCESS TIER	Hot (Inferred)
ACCESS TIER LAST MODIFIED	N/A
ARCHIVE STATUS	-
REHYDRATE PRIORITY	-
SERVER ENCRYPTED	true
ETAG	0x8DC75D1A2806E9A
VERSION-LEVEL IMMUTABILITY POLICY	Disabled

L200921

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The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo and a search bar. The left sidebar shows the 'aishamain' container selected under 'Storage accounts'. The main content area displays the '0\_623497e92a7745559eb9dcef3c5dfb99\_1.json' blob. The 'COPY STATUS' section shows 'COPY COMPLETION TIME' and an 'Undelete' button. The 'Metadata' section lists keys and values: MinTime (2024-05-16T17:49:05.1062364Z), MaxTime (2024-05-16T17:49:05.1062364Z), and BlockCount (547). The 'Blob index tags' section is also visible.

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo and a search bar. The left sidebar shows the 'aishaLocationJob' job selected under 'Stream Analytics jobs'. The main content area displays the job details, including 'Overview', 'Activity log', 'Access control (IAM)', 'Tags', 'Diagnose and solve problems', 'Job topology', 'Inputs', 'Functions', 'Query', 'Outputs', 'No-code editor (preview)', 'Settings', and 'Environment'. The 'Overview' section shows the job is 'Stopping'. The 'Essentials' section lists key details: Resource group (aisha\_rgroup), Location (East US), Status (Stopping), Subscription (Azure for Students), Subscription ID (14f3a775-c0f1-4062-9a76-f7e3aa5b71f0), Pricing plan (StandardV2), and Tags (Add tags).

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Stream Analytics job: aishaLocationJob | Query

Query:

```
1 SELECT
2   lat, lng, count,
3   udf.getDistance(lat, lng, 74.3023911, 31.481365) AS DistanceFromHub
4 INTO
5   [aishablobstor]
6 FROM
7   [aishaHub]
```

Input preview:

lat	lng	count	EventPro
float	float	bigint	datetime
31.5913166	74.3062441	0	"2024-05-

While sampling data, no data was received from '1' partitions.