IoT hub ⋯
Microsoft

Basics　Networking　Management　Add-ons　Tags　**Review + create**

Pricing

IoT hub	**$0 USD** per month Change basics
Add-ons total	Change add-ons

Basics

Subscription	Azure for Students
Resource group	IoT
IoT hub name	iothubKshiteeja
Region	East US
Disaster recovery enabled	Yes
Tier	Free
Daily message limit	8,000 ($0/month)

Networking

Connectivity configuration	Public access
Private endpoint connections	None
Allow public network access	Enabled
Minimum TLS Version	1.2

Create　　< Previous: Tags　　Next >　　Automation options

🟢 iothubKshiteeja-4421494 | Overview 📌 ⋯
Deployment

🔍 Search　✕　«

- 🏠 **Overview**
- 🖥️ Inputs
- ☰ Outputs
- 📄 Template

🗑️ **Delete**　⊘ Cancel　⬆️ Redeploy　⬇️ Download　🔄 Refresh

✅ Your deployment is complete

Deployment name: iothubKshiteeja-4421494　　Start time: 4/4/2025, 9:49:10 PM
Subscription: Azure for Students　　Correlation ID: 21ed4d66-2d5e-48fd-b3ee-f4f7222732b2 📋
Resource group: IoT

⌄ **Deployment details**

⌃ **Next steps**

Add and configure IoT Devices　Recommended

Configure routing rules for device messaging　Recommended

Go to resource

Give feedback

📣 Tell us about your experience with deployment

Home > iothubKshiteeja

iothubKshiteeja | Devices 📌 ☆ ⋯
IoT Hub

⌕ Search

≪

View, create, delete, and update devices in your IoT Hub. Learn more

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Events
- Resource visualizer
- ⌄ Device management
  - 🔲 **Devices** ☆
  - ☁ IoT Edge
  - 🎖 Configurations + Deployments
  - Updates
  - Queries
- ⌄ Hub settings
- ⌄ Security settings
- ⌄ Defender for IoT
- ⌄ Monitoring
- ⌄ Automation
- ⌄ Help

＋ Add Device   ≡≡ Edit columns   ↻ Refresh   🏷 Assign tags   🗑 Delete   📄 Find

▽ enter device ID   Types: All   ＋ Add filter

Device ID	Type	Status	Last status update	Authentication type	C2D messages qu
IoTDeviceKshiteeja	IoT Device	Enabled	--	Shared Access Signature	0

Home >

iothubKshiteeja 📌 ☆ ⋯
IoT Hub

⌕ Search

≪

→ Move ⌄   🗑 Delete   ↻ Refresh   🗨 Feedback

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Events
- Resource visualizer
- ⌄ Device management
  - Devices
  - IoT Edge
  - 🎖 Configurations + Deployments
  - Updates
  - Queries
- ⌄ Hub settings
- ⌄ Security settings
- ⌄ Defender for IoT
- ⌄ Monitoring
- ⌄ Automation
- ⌄ Help

Usage   Get started

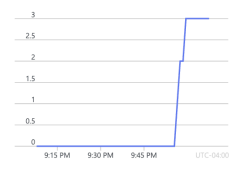Show data for last: 1 Hour   6 Hours   12 Hours   1 Day   7 Days   30 Days

IoT Hub Usage

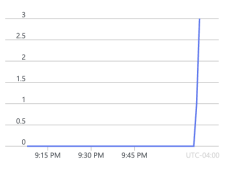- **Messages used today:** 3
- **Daily messages quota:** 8000 ⓘ
- **IoT Devices:** 1

Number of messages used 📌

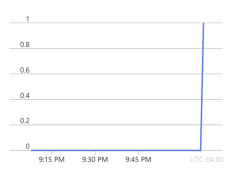■ Total number of messages used (Max), ioth...   3
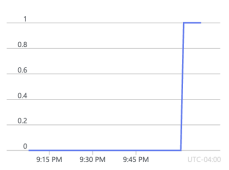
Device to cloud messages 📌

■ Telemetry messages sent (Sum), iothubkshi...   4

Connected Devices 📌

■ Connected devices (Max), iothubkshiteeja   0.02

Total IoT Devices 📌

■ Total devices (Max), iothubkshiteeja   0.12

```
sers/kshiteejajadhav/Downloads/iot_sender.py
Sending telemetry data...
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 22.29, 'humidity': 40.72, 'timestamp': '2025-04-04T22:09:07'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 24.1, 'humidity': 35.48, 'timestamp': '2025-04-04T22:09:12'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 29.79, 'humidity': 33.18, 'timestamp': '2025-04-04T22:09:17'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 26.7, 'humidity': 43.57, 'timestamp': '2025-04-04T22:09:23'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 28.77, 'humidity': 30.69, 'timestamp': '2025-04-04T22:09:28'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 21.51, 'humidity': 40.45, 'timestamp': '2025-04-04T22:09:33'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 28.9, 'humidity': 36.19, 'timestamp': '2025-04-04T22:09:38'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 29.13, 'humidity': 44.34, 'timestamp': '2025-04-04T22:09:43'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 23.27, 'humidity': 42.07, 'timestamp': '2025-04-04T22:09:48'}
```

Create a storage account ···

Basics   Advanced   Networking   Data protection   Encryption   Tags   **Review + create**

👁 View automation template

Basics

Subscription	Azure for Students
Resource group	IoT
Location	East US
Storage account name	iotstoragekshiteeja
Primary service	
Performance	Standard
Replication	Locally-redundant storage (LRS)

Advanced

Enable hierarchical namespace	Disabled
Enable SFTP	Disabled
Enable network file system v3	Disabled
Allow cross-tenant replication	Disabled
Access tier	Hot
Enable large file shares	Enabled

Security

Secure transfer	Enabled
Blob anonymous access	Disabled
Allow storage account key access	Enabled
Default to Microsoft Entra authorization in the Azure portal	Disabled
Minimum TLS version	Version 1.2
Permitted scope for copy operations (preview)	From any storage account

Networking

Previous   Next   **Create**

StreamAnalyticsJob | Overview
Deployment

Search

- Overview
- Inputs
- Outputs
- Template

Delete   Cancel   Redeploy   Download   Refresh

✓ Your deployment is complete

Deployment name : StreamAnalyticsJob   Start time   :
Subscription   : Azure for Students   Correlation ID : a7778f7b-d2ed-4d3f-b172-c6a271683427
Resource group   : IoT

> Deployment details

∨ Next steps

Go to resource

Give feedback

📣 Tell us about your experience with deployment

---

iotanalyticskshiteeja ☆ ...
Stream Analytics job

Search

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Resource visualizer
- Job topology
- Settings
- Developer tools
- Monitoring
- Automation
- Help

☐ Stop job   Delete   → Move   Refresh   Share feedback

ⓘ Running

Resource utilization

1/2	CPU % Utilization (Avg) iotanalyticskshiteeja **3.1724** %	SU (Memory) % Utilizatio... iotanalyticskshiteeja **6.2414** %

Events count

1/2	Input Events (Sum) iotanalyticskshiteeja **40**	Output Events (Sum) iotanalyticskshiteeja **40**

Watermark delay

1/2	Watermark Delay (Avg) iotanalyticskshiteeja **10.86** sec

Backlogged input events

1/2	Backlogged Input Events (Max) iotanalyticskshiteeja **18**

Errors

1/3	Runtime Errors (Sum) iotanalyticskshiteeja **0**	Input Deserialization Error... iotanalyticskshiteeja **32**

```
sers/kshiteejajadhav/Downloads/iot_sender.py
Sending telemetry data...
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 24.5, 'humidity': 46.03, 'timestamp': '2025-04-04T22:27:34'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 27.25, 'humidity': 49.87, 'timestamp': '2025-04-04T22:27:39'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 26.88, 'humidity': 30.63, 'timestamp': '2025-04-04T22:27:45'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 29.4, 'humidity': 31.39, 'timestamp': '2025-04-04T22:27:50'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 28.32, 'humidity': 40.49, 'timestamp': '2025-04-04T22:27:55'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 29.53, 'humidity': 30.98, 'timestamp': '2025-04-04T22:28:00'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 24.06, 'humidity': 46.48, 'timestamp': '2025-04-04T22:28:05'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 25.29, 'humidity': 35.59, 'timestamp': '2025-04-04T22:28:10'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 28.44, 'humidity': 43.8, 'timestamp': '2025-04-04T22:28:16'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 23.88, 'humidity': 39.99, 'timestamp': '2025-04-04T22:28:21'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 27.76, 'humidity': 42.1, 'timestamp': '2025-04-04T22:28:26'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 25.14, 'humidity': 49.09, 'timestamp': '2025-04-04T22:28:31'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 27.1, 'humidity': 33.26, 'timestamp': '2025-04-04T22:28:36'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 29.22, 'humidity': 34.87, 'timestamp': '2025-04-04T22:28:41'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 20.86, 'humidity': 49.88, 'timestamp': '2025-04-04T22:28:47'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 28.82, 'humidity': 45.38, 'timestamp': '2025-04-04T22:28:52'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 22.14, 'humidity': 40.67, 'timestamp': '2025-04-04T22:28:57'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 26.73, 'humidity': 31.3, 'timestamp': '2025-04-04T22:29:02'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 23.13, 'humidity': 47.1, 'timestamp': '2025-04-04T22:29:07'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 22.16, 'humidity': 35.32, 'timestamp': '2025-04-04T22:29:12'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 21.25, 'humidity': 41.37, 'timestamp': '2025-04-04T22:29:18'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 26.0, 'humidity': 38.47, 'timestamp': '2025-04-04T22:29:23'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 20.98, 'humidity': 31.3, 'timestamp': '2025-04-04T22:29:28'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 27.03, 'humidity': 38.86, 'timestamp': '2025-04-04T22:29:33'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 24.07, 'humidity': 38.57, 'timestamp': '2025-04-04T22:29:38'}
Message sent: {'deviceId': 'IoTDeviceKshiteeja', 'temperature': 20.96, 'humidity': 42.27, 'timestamp': '2025-04-04T22:29:43'}
```

1135289631_abd6095fb6fb43d1bd771c9c312fa95f_1

deviceId	temperature	humidity	timestamp	EventProcessedUtcTime	PartitionId	EventEnqueuedUtcTime	IoTHub
IoTDeviceKshiteeja	22.84	46.7	2025-04-04T22:25:32	2025-04-05T02:27:14.9404130Z	1	2025-04-05T02:25:36.6090000Z	Record
IoTDeviceKshiteeja	21.59	39.62	2025-04-04T22:25:37	2025-04-05T02:27:14.9979269Z	1	2025-04-05T02:25:41.7810000Z	Record
IoTDeviceKshiteeja	29.84	40.43	2025-04-04T22:25:42	2025-04-05T02:27:14.9986481Z	1	2025-04-05T02:25:46.9840000Z	Record
IoTDeviceKshiteeja	24.17	41.29	2025-04-04T22:25:47	2025-04-05T02:27:14.9987397Z	1	2025-04-05T02:25:52.1410000Z	Record
IoTDeviceKshiteeja	24.84	48.91	2025-04-04T22:25:53	2025-04-05T02:27:14.9988043Z	1	2025-04-05T02:25:57.2970000Z	Record
IoTDeviceKshiteeja	28.61	36.37	2025-04-04T22:25:58	2025-04-05T02:27:14.9988553Z	1	2025-04-05T02:26:02.4540000Z	Record
IoTDeviceKshiteeja	29.99	46.17	2025-04-04T22:26:03	2025-04-05T02:27:14.9989160Z	1	2025-04-05T02:26:07.5940000Z	Record
IoTDeviceKshiteeja	28.66	30.17	2025-04-04T22:26:08	2025-04-05T02:27:14.9989640Z	1	2025-04-05T02:26:12.7660000Z	Record
IoTDeviceKshiteeja	20.44	39.68	2025-04-04T22:26:13	2025-04-05T02:27:14.9990186Z	1	2025-04-05T02:26:17.9380000Z	Record
IoTDeviceKshiteeja	23.36	34.53	2025-04-04T22:26:18	2025-04-05T02:27:14.9990606Z	1	2025-04-05T02:26:23.0950000Z	Record
IoTDeviceKshiteeja	25.51	39.35	2025-04-04T22:26:24	2025-04-05T02:27:14.9991073Z	1	2025-04-05T02:26:28.2510000Z	Record
IoTDeviceKshiteeja	28.05	42.41	2025-04-04T22:26:29	2025-04-05T02:27:14.9991560Z	1	2025-04-05T02:26:33.4080000Z	Record
IoTDeviceKshiteeja	24.4	44.72	2025-04-04T22:26:34	2025-04-05T02:27:14.9991983Z	1	2025-04-05T02:26:38.5650000Z	Record
IoTDeviceKshiteeja	22.26	43.17	2025-04-04T22:26:39	2025-04-05T02:27:14.9992421Z	1	2025-04-05T02:26:43.7380000Z	Record
IoTDeviceKshiteeja	21.69	30.52	2025-04-04T22:26:44	2025-04-05T02:27:14.9992979Z	1	2025-04-05T02:26:48.8940000Z	Record
IoTDeviceKshiteeja	26.7	44.96	2025-04-04T22:26:49	2025-04-05T02:27:14.9993631Z	1	2025-04-05T02:26:54.0660000Z	Record
IoTDeviceKshiteeja	21.81	35.4	2025-04-04T22:26:55	2025-04-05T02:27:14.9994159Z	1	2025-04-05T02:26:59.2070000Z	Record
IoTDeviceKshiteeja	26.6	30.98	2025-04-04T22:27:00	2025-04-05T02:27:14.9994622Z	1	2025-04-05T02:27:04.3630000Z	Record
IoTDeviceKshiteeja	20.44	49.14	2025-04-04T22:27:05	2025-04-05T02:27:14.9995277Z	1	2025-04-05T02:27:09.5190000Z	Record
IoTDeviceKshiteeja	26.72	38.74	2025-04-04T22:27:10	2025-04-05T02:27:14.9995692Z	1	2025-04-05T02:27:14.6760000Z	Record
IoTDeviceKshiteeja	25.19	36.77	2025-04-04T22:27:15	2025-04-05T02:27:20.0221410Z	1	2025-04-05T02:27:19.8320000Z	Record
IoTDeviceKshiteeja	22.34	46.72	2025-04-04T22:27:20	2025-04-05T02:27:25.1021005Z	1	2025-04-05T02:27:24.9890000Z	Record
IoTDeviceKshiteeja	26.68	45.93	2025-04-04T22:27:25	2025-04-05T02:27:30.3674686Z	1	2025-04-05T02:27:30.1460000Z	Record
IoTDeviceKshiteeja	22.61	32.2	2025-04-04T22:27:31	2025-04-05T02:27:35.5061574Z	1	2025-04-05T02:27:35.3180000Z	Record
IoTDeviceKshiteeja	24.5	46.03	2025-04-04T22:27:34	2025-04-05T02:27:38.9927255Z	1	2025-04-05T02:27:38.9580000Z	Record
IoTDeviceKshiteeja	27.25	49.87	2025-04-04T22:27:39	2025-04-05T02:27:44.2425927Z	1	2025-04-05T02:27:44.1150000Z	Record
IoTDeviceKshiteeja	26.88	30.63	2025-04-04T22:27:45	2025-04-05T02:27:49.5088089Z	1	2025-04-05T02:27:49.3020000Z	Record
IoTDeviceKshiteeja	29.4	31.39	2025-04-04T22:27:50	2025-04-05T02:27:54.6466968Z	1	2025-04-05T02:27:54.4590000Z	Record
IoTDeviceKshiteeja	28.32	40.49	2025-04-04T22:27:55	2025-04-05T02:27:59.6944425Z	1	2025-04-05T02:27:59.6460000Z	Record
IoTDeviceKshiteeja	29.53	30.98	2025-04-04T22:28:00	2025-04-05T02:28:05.0528625Z	1	2025-04-05T02:28:04.8180000Z	Record

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

Copilot

iotcontainerkshiteeja
Container

Search

- Overview
- Diagnose and solve problems
- Access Control (IAM)
- > Settings

↑ Upload   🔒 Change access level   ⋯

Authentication method: Access key (Switch to Microsoft Entra user account)
Location: iotcontainerkshiteeja

Search blobs by prefix (case-...

◯ Show deleted blobs

+ Add filter

Name

☐ 📄 1135289631_abd6095fb6fb43...   ⋯

1135289631_abd6095fb6fb43d1bd771c9c312fa95f_1.csv   ⋯
Blob

💾 Save   ✕ Discard   ↓ Download   ↻ Refresh   🗑 Delete   ⇄ Change tier   Acquire lease   Break lease   Give feedback

Overview   Versions   Snapshots   Edit   Generate SAS

Properties

URL	https://iotstorageksh... 📋
LAST MODIFIED	4/4/2025, 10:29:48 PM
CREATION TIME	4/4/2025, 10:27:16 PM
VERSION ID	-
TYPE	Block blob
SIZE	5.89 KiB
ACCESS TIER	Hot (Inferred)
ACCESS TIER LAST MODIFIED	N/A
ARCHIVE STATUS	-
REHYDRATE PRIORITY	-
SERVER ENCRYPTED	true
ETAG	0x8DD73E9BCCDF7C3
VERSION-LEVEL IMMUTABILITY POLICY	Disabled
CACHE-CONTROL	
CONTENT-TYPE	application/octet-stream
CONTENT-MD5	
CONTENT-ENCODING	
CONTENT-LANGUAGE	
CONTENT-DISPOSITION	
LEASE STATUS	Unlocked
LEASE STATE	Available
LEASE DURATION	-
COPY STATUS	-