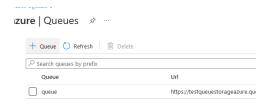
Cozi de mesaje

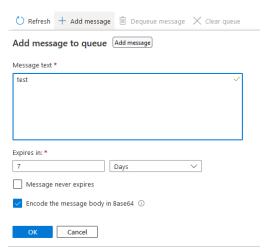
- Intrati pe platforma Azure si cautati **Storage accounts**
- Creati un nou Storage account sau il puteti folosi pe cel creat in laboratoarele precedente. Dati click pe numele noului cont si selectati din partea stanga Data Storage -> Queues



• Apasati + Queue din partea de sus pentru a crea o noua coada si scrieti un nume



• Intrati in noua coada si adaugati un mesaj nou apasand pe butonul + Add message



- Selectati un mesaj si apasati **Dequeue message** pentru a sterge primul mesaj din coada
- Scriem doua programe in Python pentru a putea citi si adauga mesaje in coada.
- Urmarim tutorialul. Instalam SDK-ul pentru cozi:

```
python3 -m venv venv
source venv/bin/activate
pip install azure-storage-queue
```

 Gasim connection string-ul din Storage account → Security + networking → Access keys → key1 → Connection string



- Cod Python: https://pastebin.com/UyiDXhRJ
- Pentru a adauga mesaje in coada:

```
from azure.storage.queue import (
    OueueClient,
    BinaryBase64EncodePolicy,
    BinaryBase64DecodePolicy
)
import os, uuid
connect_str =
"DefaultEndpointsProtocol=https;AccountName=testqueuestorageazure;Acc
ountKey=4wnffIIvI03Cz9+J4acqo6eUu193MijdkODLa1Smc9OyRjZXJ6O
3XgAJgksNid9XL6R3kJll2/C3+ASttkM9EQ==;EndpointSuffix=core.wind
ows.net"
queue_name = "queue"
queue_client = QueueClient.from_connection_string(connect_str,
queue_name)
messages = [
    "test-1",
    "test-2",
    "test-3",
1
for message in messages:
  print("Adding message: " + message)
  queue_client.send_message(message)
```

• Pentru a procesa mesajele din coada:

```
ountKey=4wnffIIvI03Cz9+J4acqo6eUu193MijdkODLa1Smc9OyRjZXJ6O
        3XgAJgksNid9XL6R3kJll2/C3+ASttkM9EQ==;EndpointSuffix=core.wind
        ows.net"
        queue_name = "queue"
        queue client = QueueClient.from connection string(connect str,
        queue_name)
        messages = queue_client.receive_messages()
        for message in messages:
          message_content = message.content
          # Daca ati adaugat mesaje din browser, implicit este selectata
          # optiunea "Encode the message body in Base64". Pentru decodare
          # folositi linia de mai jos
          # message_content = b64decode(message.content).decode("utf-8")
          print("Dequeueing message: " + message_content)
          queue_client.delete_message(message.id, message.pop_receipt)
Daca vreti sa trimiteti structuri folosind aceasta coada, trebuie sa le faceti marshalling.
Cea mai simpla metoda este sa folositi JSON sau Base64. Cod:
https://pastebin.com/K4VpYPJy
        from azure.storage.queue import (
            OueueClient.
            BinaryBase64EncodePolicy,
            BinaryBase64DecodePolicy
        )
        import os, uuid
        import ison
        import pickle
        connect_str =
        "DefaultEndpointsProtocol=https;AccountName=testqueuestorageazure;Acc
        ountKey=4wnffIIvI03Cz9+J4acqo6eUu193MijdkODLa1Smc9OyRjZXJ6O
        3XgAJgksNid9XL6R3kJll2/C3+ASttkM9EQ==;EndpointSuffix=core.wind
        ows.net"
        queue name = "binary-queue"
        queue_client = QueueClient.from_connection_string(
            connect_str,
            queue_name,
            message encode policy = BinaryBase64EncodePolicy(),
            message decode policy = BinaryBase64DecodePolicy()
        )
          queue_client.create_queue()
```

except:

```
pass
message = {
    "1": {
       "title": "Harry Potter 1",
       "author": "JK Rowling",
       "pages": 143,
    },
    "2": {
       "title": "1984",
       "author": "George Orwell",
       "pages": 326,
    },
}
print("Adding message: " + str(message))
print()
# Daca structura este simpla, putem folosi JSON
# encoded_message = json.dumps(message)
# Daca trebuie sa trimitem lucruri mai complicate
# putem folosi pickle
encoded_message = pickle.dumps(message)
# Trimitem mesajul
queue_client.send_message(encoded_message)
# Receptionam mesajul
messages = queue_client.receive_messages()
for message in messages:
  print("Dequeueing message: " + str(message.content))
  decoded_message = pickle.loads(message.content)
  print("Decoded message: " + str(decoded_message))
  queue_client.delete_message(message.id, message.pop_receipt)
```