Practical Task 2: Lifecycle Management for Blob Storage

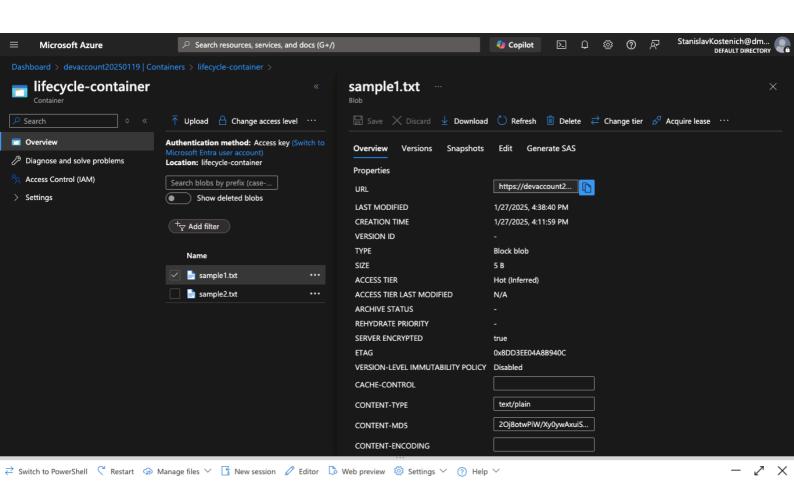
Implement lifecycle management policies to optimize storage costs.

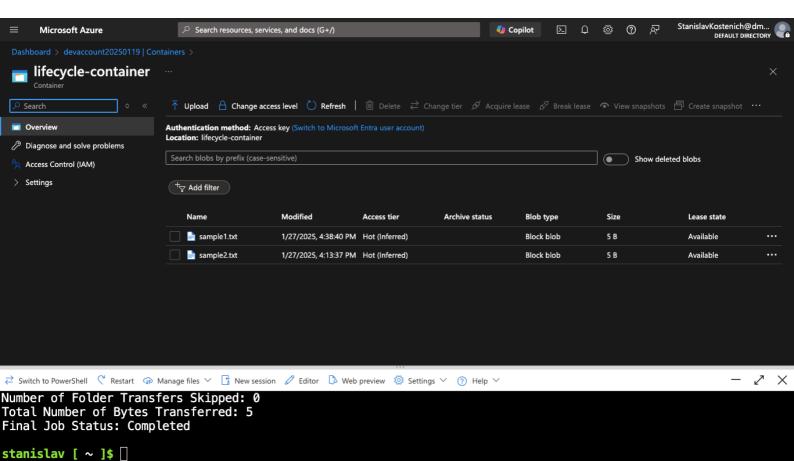
Requirements:

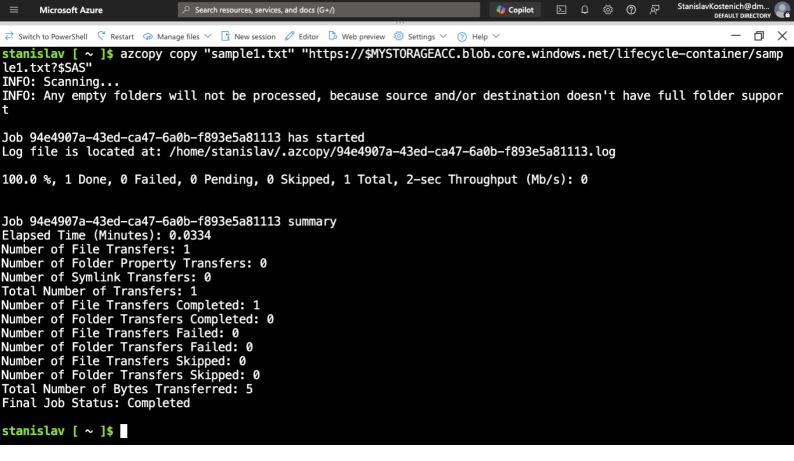
- 1. Create a storage account and a Blob container named "lifecycle-container."
- 2. Upload multiple files of varying sizes to the container.
- 3. Create a lifecycle management policy to move blobs to the Cool tier after 30 days and delete blobs older than 90 days.
- 4. Simulate policy execution by manually testing with different file creation timestamps.
- 5. Verify that blobs are moved or deleted according to the policy.

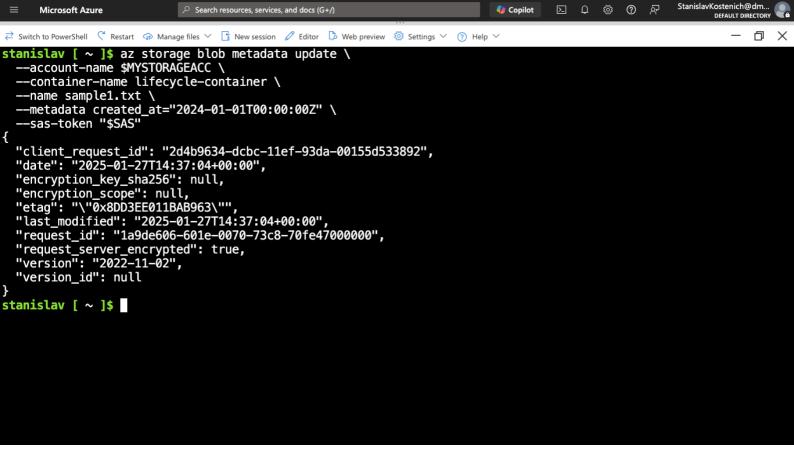
Practical Task 3: Implementing an Azure Queue for Message Storage

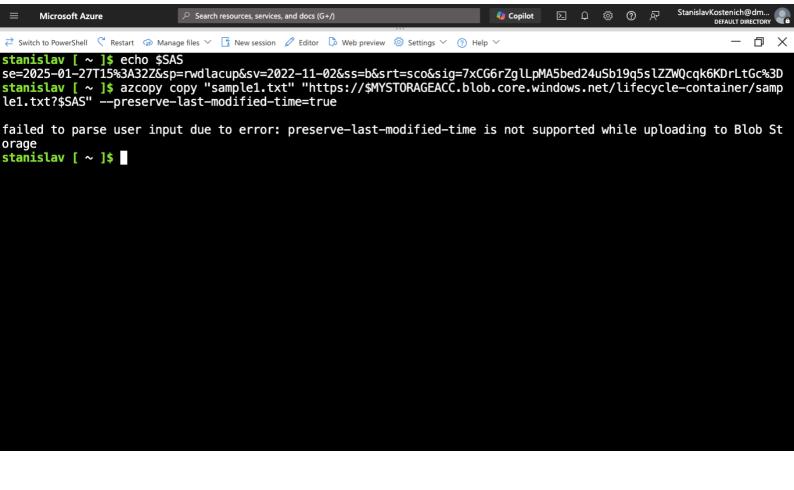
Create and manage an Azure Queue to store and process messages.











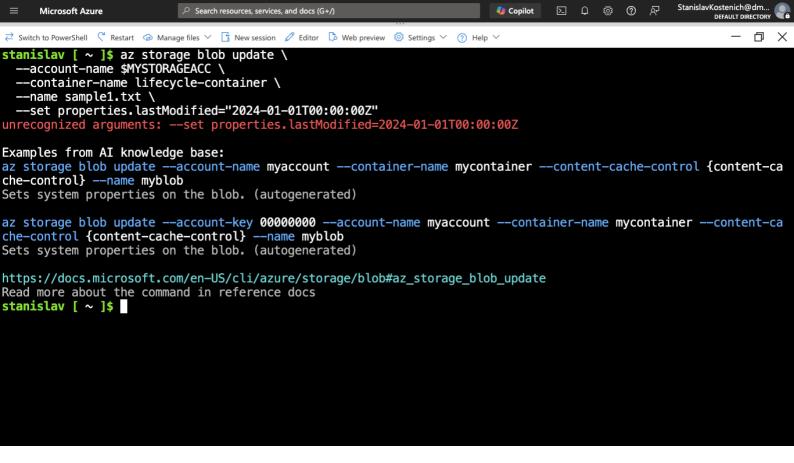
```
🔁 Switch to PowerShell 🦿 Restart 😘 Manage files 🗸 📑 New session 🧷 Editor 🖒 Web preview 🔅 Settings 🗸 🕜 Help 🗸
                                                                                                                         ×
stanislav [ ~ ]$ touch -t 202401010000 sample1.txt # Set timestamp to 2024-01-01 00:00:00 UTC
stanislav [ ~ ]$ ls -la
total 92
drwxr-xr-x 6 stanislav stanislav
                                      4096 Jan 27 14:15 .
drwxr-xr-x 1 root
                          root
                                      4096 Jan 27 10:57
                                      302 Jan 27
4096 Jan 27
            1 stanislav stanislav
                                                    11:15 app.py
-rw-r--r--
          - 5 stanislav stanislav
                                                   11:29 .azure
drwx--
                                      2375 Jan 27 14:27 .bash_history
            1 stanislav stanislav
-rw
-rw-r--r-- 1 stanislav stanislav
                                       178 Sep 24
                                                    2023 .bash_logout
-rw-r--r-- 1 stanislav stanislav
                                       645 Sep 24
                                                    2023 .bash_profile
                                      1105 Jan 27 10:57 .bashrc
-rw-r--r-- 1 stanislav stanislav
drwxr-xr-x 3 stanislav stanislav
                                      4096 Jan 27 10:57 .docker
                                      230 Jan 27 11:18 Docker 4096 Jan 27 10:57 .local
                                                    11:18 Dockerfile
-rw-r--r--
            1 stanislav stanislav
drwxr-xr-x 3 stanislav stanislav
                                       540 Jan 27 14:15 policy.json
      -r-- 1 stanislav stanislav
                                           Jan
                                                    2024 sample1.txt
       -r—— 1 stanislav stanislav
                                                1
-rw-r
                                           Jan 27 14:13 sample2.txt
-rw-r--r-- 1 stanislav stanislav
                                         5
-rw-r--r-- 1 stanislav stanislav
                                        42 Jan 27 10:57 .tmux.conf
                                      4096 Jan 27 10:57 .vim
drwxr-xr-x 3 stanislav stanislav
-rw----- 1 stanislav stanislav 2086 Jan 27 14:15 .viminfo
-rw-r--r-- 1 stan<u>i</u>slav stanislav 22287 Jun 17 2022 .zshrc
stanislav [ ~ ]$
```

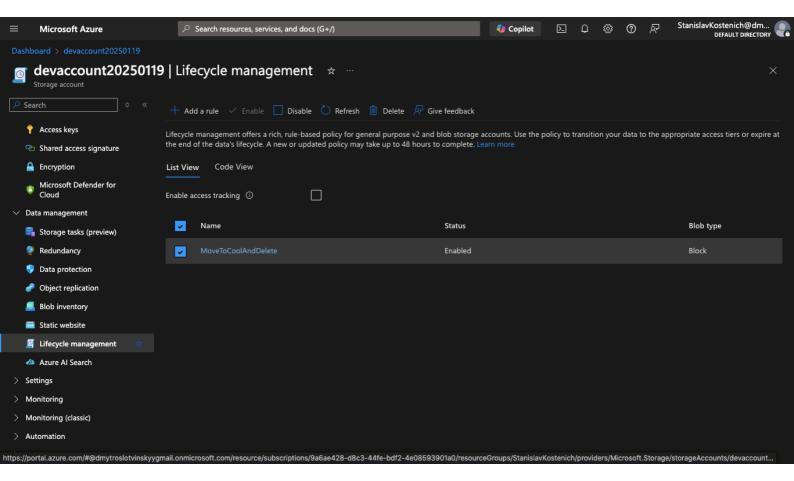
Copilot

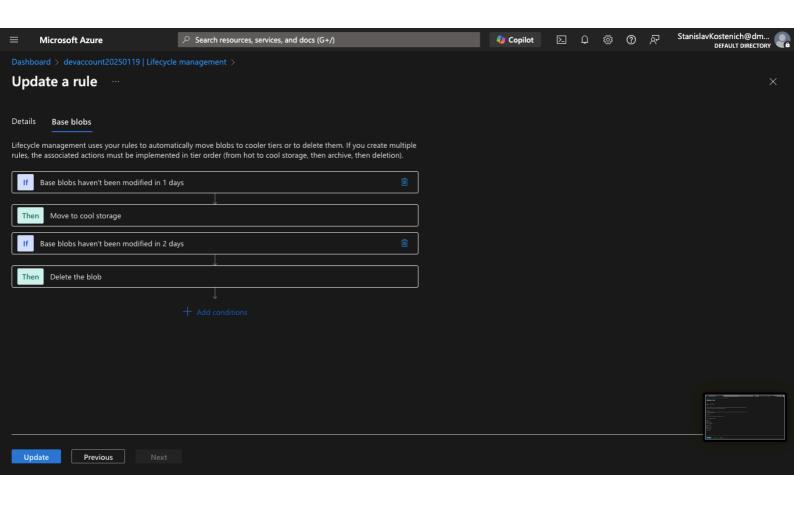
∠ Search resources, services, and docs (G+/)

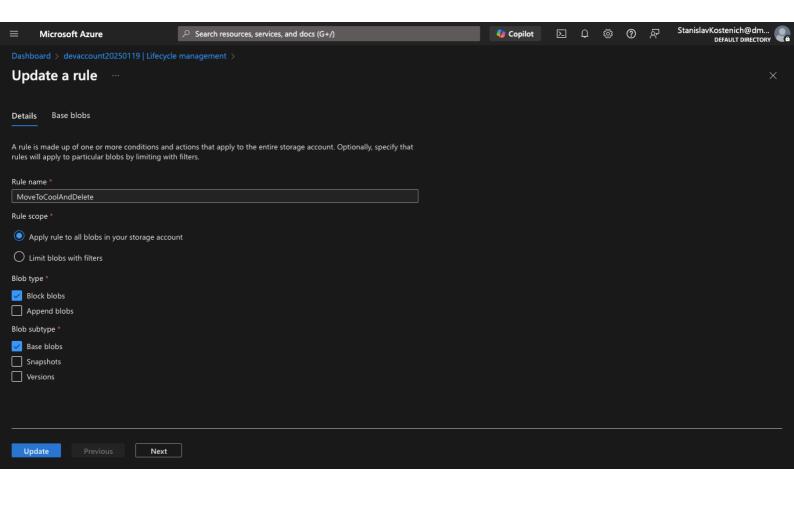
Microsoft Azure

StanislavKostenich@dm.









```
∠ Switch to PowerShell 
∠ Restart 
♠ Manage files 
∠ 
☐ New session 
∠ Editor 
♠ Web preview 
♠ Settings 
∠ 
♠ Help 
∠

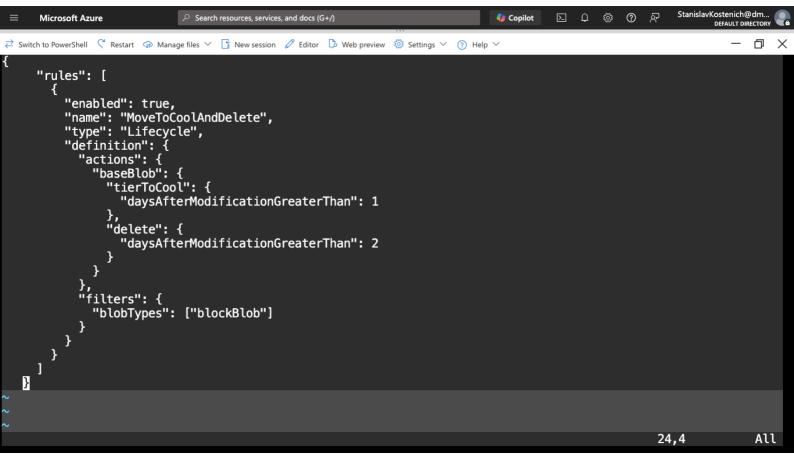
                                                                                                                                                   stanislav [ ~ ]$ az storage account management-policy create
                                                                                          --account-name $MYSTORAGEACC --resource-group
 StanislavKostenich
                               --policy @policy.json
"id": "/subscriptions/9a6ae428-d8c3-44fe-bdf2-4e08593901a0/resourceGroups/StanislavKostenich/providers/Microso ft.Storage/storageAccounts/devaccount20250119/managementPolicies/default", "lastModifiedTime": "2025-01-27T14:16:46.940128+00:00", "name": "DefaultManagementPolicy",
  "policy": {
    "rules": [
           "definition": {
             "actions": {
    "baseBlob": {
      "delete": {
                     "daysAfterCreationGreaterThan": null,
                      "daysAfterLastAccessTimeGreaterThan": null,
                      "daysAfterLastTierChangeGreaterThan": null,
                      "daysAfterModificationGreaterThan": 2.0
                   },
"enableAutoTierToHotFromCool": null,
                   "tierToArchive": null,
"tierToCold": null,
                   "tierToCool": {
                      "daysAfterCreationGreaterThan": null,
                      "daysAfterLastAccessTimeGreaterThan": null,
                      "daysAfterLastTierChangeGreaterThan": null,
                      "daysAfterModificationGreaterThan": 1.0
                   },
```

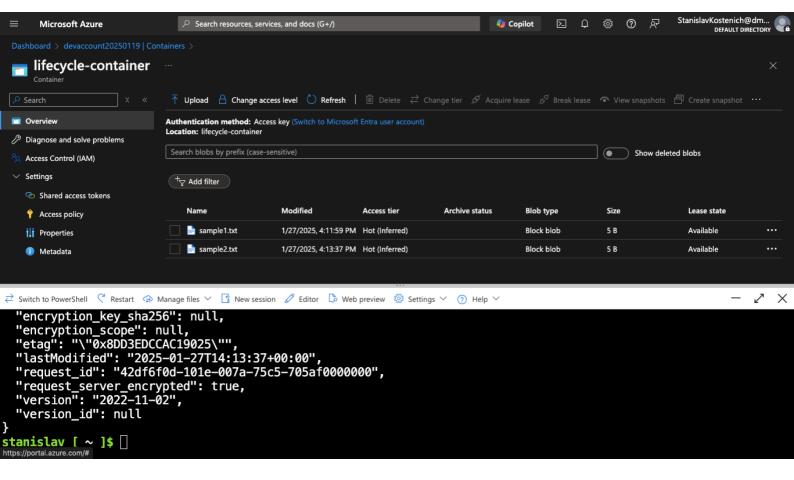
Microsoft Azure

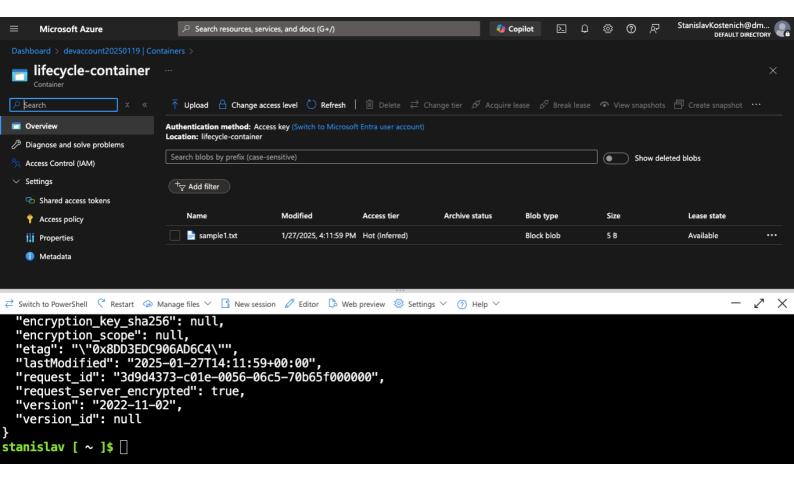
Copilot

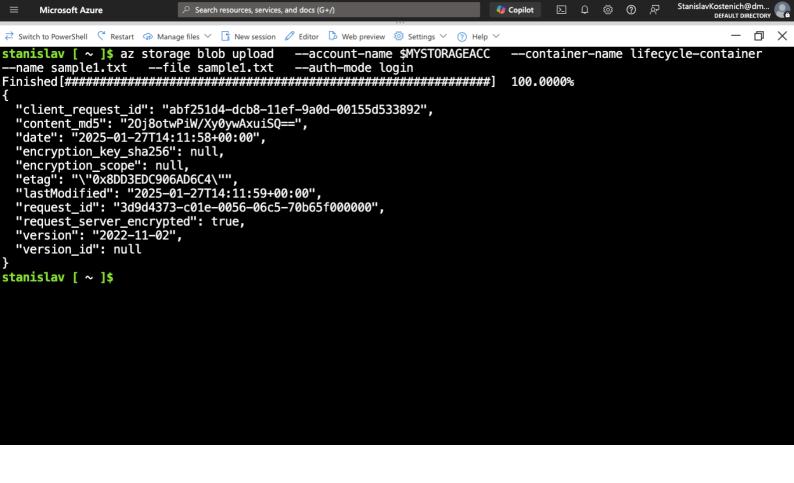
□ ↓ ۞ ⑦

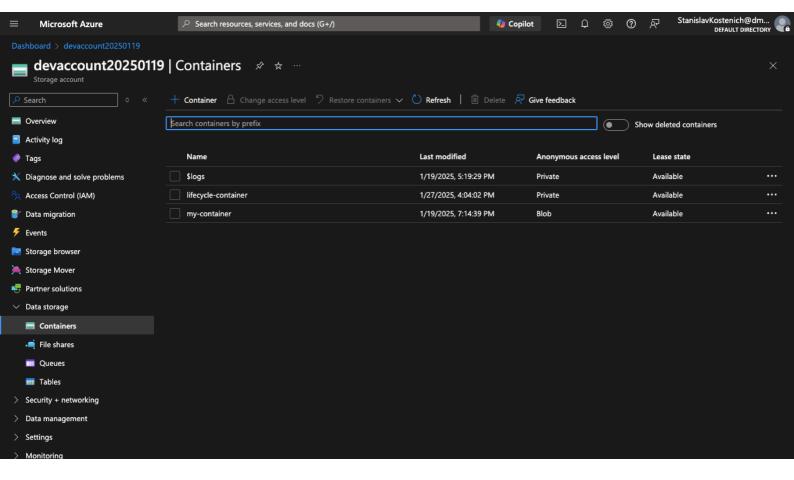
StanislavKostenich@dm.

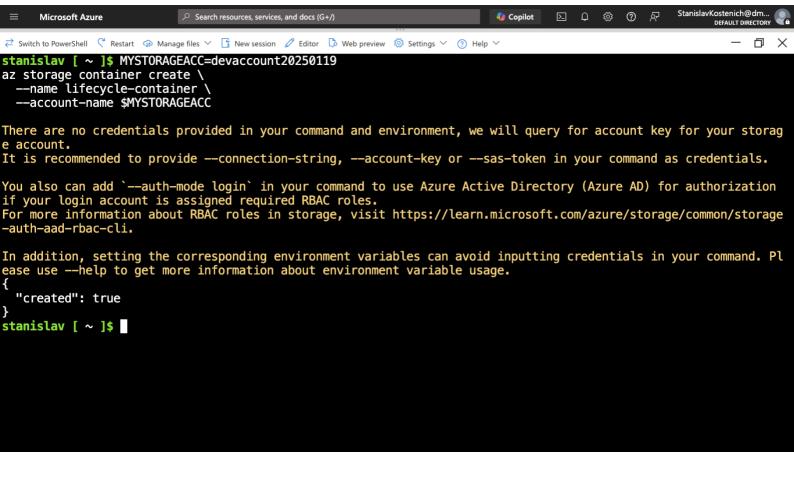


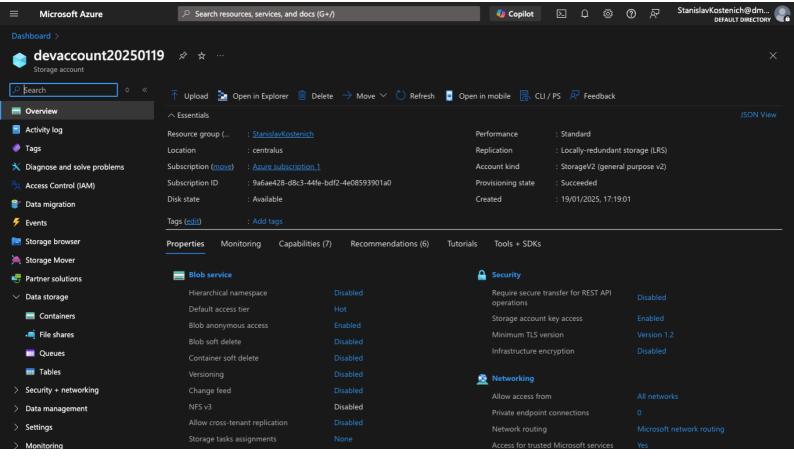












Practical Task 2: Lifecycle Management for Blob Storage

Implement lifecycle management policies to optimize storage costs.

Requirements:

- 1. Create a storage account and a Blob container named "lifecycle-container."
- 2. Upload multiple files of varying sizes to the container.
- 3. Create a lifecycle management policy to move blobs to the Cool tier after 30 days and delete blobs older than 90 days.
- 4. Simulate policy execution by manually testing with different file creation timestamps.
- 5. Verify that blobs are moved or deleted according to the policy.

Practical Task 3: Implementing an Azure Queue for Message Storage

Create and manage an Azure Queue to store and process messages.