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## Demo: Configure a Lifecycle Management Policy in Azure Storage

### Goal:

Learn how to **automatically move or delete blob data** based on rules (e.g., age, access time) using **lifecycle management policies**.

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## Part 1: Quick Concept Overview

**Azure Blob Lifecycle Management** allows you to:

- Automatically **transition blobs** to cooler tiers (Hot → Cool → Archive)
  - Automatically **delete blobs** after a period of time
  - Apply policies based on **last modified** or **last accessed**
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## Part 2: Step-by-Step Demo (Azure Portal)

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### ◆ Step 1: Create or Open a Storage Account

1. Go to **Azure Portal** → **Storage Accounts**
  2. Click **+ Create** or open an existing one
  3. Ensure **Blob Storage** or **General-purpose v2 (GPv2)** is selected (required for lifecycle policies)
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### ◆ Step 2: Enable Blob Lifecycle Management

1. In your **Storage Account**, navigate to:

**Data Management → Lifecycle Management**

2. Click “+ Add a rule”

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### ♦ Step 3: Create a Rule

#### 💡 Example Rule:

"Move blobs to the **Cool** tier after 30 days, then **delete** them after 90 days."

#### A. Rule Basics

- **Rule name:** `MoveAndDeleteLogs`
- **Rule scope:** Choose either:
  - **All blobs** – applies to the entire account
  - **Filter set** – limit by container, prefix, or blob type (e.g., `logs/`, `.txt`)

#### B. Conditions

- **If last modified:**
  - **> 30 days** → Move to **Cool**
  - **> 90 days** → **Delete blob**

You can also use **last accessed** (if blob access tracking is enabled).

#### C. Review + Add

- Click **Add** to create the rule
- It takes effect immediately and runs daily

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## Optional: Verify or Simulate

- Upload blobs to a test container (e.g., `logs/testlog1.txt`)
- Use "**Access tier**" column in the portal to monitor changes
- Note: It can take up to 24 hours for changes to reflect

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## Example Rule (JSON View)

Here's what the rule looks like behind the scenes:

```
{
  "rules": [
    {
      "enabled": true,
      "name": "MoveAndDeleteLogs",
      "type": "Lifecycle",
      "definition": {
        "filters": {
          "blobTypes": ["blockBlob"],
          "prefixMatch": ["logs/"]
        },
        "actions": {
          "baseBlob": {
            "tierToCool": { "daysAfterModificationGreaterThan": 30 },
            "delete": { "daysAfterModificationGreaterThan": 90 }
          }
        }
      }
    }
  ]
}
```

You can edit JSON directly if needed in the portal under "JSON" tab.

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## Use Cases to Mention While Teaching

Scenario	Action
Archived logs	Move to <b>Cool</b> or <b>Archive</b> tier
Old backups	Automatically <b>delete</b>
Unused documents	Move based on <b>last accessed</b>

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## Teaching Tips

Tip	Why
Use a real or sandbox subscription	Encourages hands-on learning
Ask learners to simulate "age" by uploading files and setting access tiers manually	Helps visualize lifecycle
Compare costs between tiers (Hot, Cool, Archive)	Reinforces cost benefits

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