Here’s a complete list of **commands used** in your Azure Cosmos DB cost optimization solution—including both **Azure CLI** and **GitHub Actions** related commands:

**✅ 1. Azure CLI Commands**

**🔹 Create Resource Group**

az group create --name cosmos-cost-opt --location eastus

**🔹 Deploy Infrastructure Using Bicep**# Deploy Cosmos DB

az deployment group create \

--resource-group cosmos-cost-opt \

--template-file infra/cosmos.bicep

# Deploy Blob Storage

az deployment group create \

--resource-group cosmos-cost-opt \

--template-file infra/storage.bicep

# Deploy Function Apps

az deployment group create \

--resource-group cosmos-cost-opt \

--template-file infra/function-apps.bicep

**🔹 Log In to Azur**

az login

**🔹 Create a Service Principal for GitHub Deployment (CI/CD**

az ad sp create-for-rbac --name "github-deploy" --sdk-auth > azure\_credentials.json

Copy contents of azure\_credentials.json and paste it as a GitHub secret AZURE\_CREDENTIALS.

**✅ 2. Azure Functions Commands (Local Dev)**

**🔹 Run Function App Locall**

cd archive\_function

func start

**🔹 Publish Function to Azure**

func azure functionapp publish archive-function --python

func azure functionapp publish read-api --python

**✅ 3. GitHub Actions Commands (Behind the Scenes)**

These are auto-triggered but here’s what they do:

**🔹 Deploy Infrastructure (from deploy-infra.yml)**

az deployment group create --template-file infra/cosmos.bicep

az deployment group create --template-file infra/storage.bicep

**🔹 Deploy Function App (from deploy-functions.yml)**

func azure functionapp publish archive-function

func azure functionapp publish read-api

**✅ 4. Blob Storage Data Commands (for testing or inspection)**

**🔹 Upload a File to Blob**

az storage blob upload \

--account-name billingarchive \

--container-name billing-archive \

--name test-record.json \

--file ./test-record.json \

--auth-mode login

**🔹 List Blobs**

az storage blob list \

--account-name billingarchive \

--container-name billing-archive \

--output table

**⚡ Summary Table**

| **Purpose** | **Command** |
| --- | --- |
| Deploy infra | az deployment group create |
| Login to Azure | az login |
| SP for CI/CD | az ad sp create-for-rbac |
| Run Functions locally | func start |
| Publish Function | func azure functionapp publish |
| Upload blob manually | az storage blob upload |
| List blobs | az storage blob list |