AZURE SDK PYTHON ASSIGNMENT 1

1. Write a script to create a storage account and a container in azure blob storage and upload 2 files containing simple text.

Text

Description automatically generated

import os, random, logging

from azure.identity import AzureCliCredential

from azure.mgmt.resource import ResourceManagementClient

from azure.mgmt.storage import StorageManagementClient

logging.basicConfig(filename="blob1.log", level=logging.DEBUG)

credential = AzureCliCredential()

subscription\_id ="fcd4d0d9-59c4-451c-9665-a0001f80e9e2"

resource\_client = ResourceManagementClient(credential, subscription\_id)

RESOURCE\_GROUP\_NAME = "AZRG-USE2-CON-NPDHASHEDINAZUREINTERNALPOC-NPD-002"

LOCATION = "Eastus"

rg\_result = resource\_client.resource\_groups.create\_or\_update(RESOURCE\_GROUP\_NAME,

{ "location": LOCATION })

logging.debug(f"Provisioned resource group {rg\_result.name}")

storage\_client = StorageManagementClient(credential, subscription\_id)

STORAGE\_ACCOUNT\_NAME =f"huprajwalshetty{random.randint(1,100000):05}"

availability\_result = storage\_client.storage\_accounts.check\_name\_availability(

{ "name": STORAGE\_ACCOUNT\_NAME }

)

if not availability\_result.name\_available:

logging.debug(f"Storage name {STORAGE\_ACCOUNT\_NAME} is already in use. Try another name.")

exit()

poller = storage\_client.storage\_accounts.begin\_create(RESOURCE\_GROUP\_NAME, STORAGE\_ACCOUNT\_NAME,

{

"location" : LOCATION,

"kind": "StorageV2",

"sku": {"name": "Standard\_LRS"}

"tags”:{"key1":"shetty-hu-storage"}

}

)

keys = storage\_client.storage\_accounts.list\_keys(RESOURCE\_GROUP\_NAME, STORAGE\_ACCOUNT\_NAME)

logging.debug(f"Primary key for storage account: {keys.keys[0].value}")

conn\_string = f"DefaultEndpointsProtocol=https;EndpointSuffix=core.windows.net;AccountName={STORAGE\_ACCOUNT\_NAME};AccountKey={keys.keys[0].value}"

logging.debug(f"Connection string: {conn\_string}")

CONTAINER\_NAME = "hu-prajwalcontainer-01"

container = storage\_client.blob\_containers.create(RESOURCE\_GROUP\_NAME, STORAGE\_ACCOUNT\_NAME, CONTAINER\_NAME, {})

logging.debug(f"Provisioned blob container {container.name}")

* Contents of requirement.txt

azure-mgmt-resource

azure-mgmt-storage

azure-identity