```
  ┌──(venv)─(kali㉿vbox)-[~]
  └─$ aws --endpoint-url=$AWS_ENDPOINT_URL logs create-log-group --log-group-name /mock/log/group

  ┌──(venv)─(kali㉿vbox)-[~]
  └─$ echo -e 'def lambda_handler(event, context):\n    return {"statusCode": 200}' > lambda_function.
py

  ┌──(venv)─(kali㉿vbox)-[~]
  └─$ zip dummy.zip lambda_function.py
    adding: lambda_function.py (stored 0%)
```

```
  (venv)-(kali@VBOX)-[~]
 $ aws --endpoint-url=$AWS_ENDPOINT_URL lambda create-function --function-name mock-function \
--runtime python3.8 --role arn:aws:iam::000000000000:role/mock-role \
--handler lambda_function.lambda_handler --zip-file fileb://dummy.zip
{
    "FunctionName": "mock-function",
    "FunctionArn": "arn:aws:lambda:us-east-1:000000000000:function:mock-function",
    "Runtime": "python3.8",
    "Role": "arn:aws:iam::000000000000:role/mock-role",
    "Handler": "lambda_function.lambda_handler",
    "CodeSize": 253,
    "Description": "",
    "Timeout": 3,
    "MemorySize": 128,
    "LastModified": "2025-09-14T18:58:25.928694+0000",
    "CodeSha256": "OS/RFt2LaXTnja+GDNmIF5KjMfzI4q7JfbPoHYE/EvY=",
    "Version": "$LATEST",
    "TracingConfig": {
        "Mode": "PassThrough"
    },
    "RevisionId": "99040acf-e3b1-4765-a2f7-80043dcd7a94",
    "State": "Pending",
    "StateReason": "The function is being created.",
    "StateReasonCode": "Creating",
    "PackageType": "Zip",
    "Architectures": [
        "x86_64"
    ],
    "EphemeralStorage": {
        "Size": 512
    },
    "SnapStart": {
        "ApplyOn": "None",
        "OptimizationStatus": "Off"
    },
    "RuntimeVersionConfig": {
        "RuntimeVersionArn": "arn:aws:lambda:us-east-1::runtime:8eeff65f6809a3ce81507fe733fe09b83589
9b99481ba22fd75b5a7338290ec1"
    },
    "LoggingConfig": {
```

```
    },
    "EphemeralStorage": {
        "Size": 512
    },
    "SnapStart": {
        "ApplyOn": "None",
        "OptimizationStatus": "Off"
    },
    "RuntimeVersionConfig": {
        "RuntimeVersionArn": "arn:aws:lambda:us-east-1::runtime:8eeff65f6809a3ce81507fe733fe09b83589
9b99481ba22fd75b5a7338290ec1"
    },
    "LoggingConfig": {
        "LogFormat": "Text",
        "LogGroup": "/aws/lambda/mock-function"
    }
}

┌──(venv)─(kali㉿vbox)-[~]
└─$ aws --endpoint-url=$AWS_ENDPOINT_URL sns create-topic --name mock-topic
{
    "TopicArn": "arn:aws:sns:us-east-1:000000000000:mock-topic"
}
```

```
┌──(venv)─(kali@vbox)─[~]
└─$ aws --endpoint-url=$AWS_ENDPOINT_URL lambda create-function --function-name mock-function \
--runtime python3.8 --role arn:aws:iam::000000000000:role/mock-role \
--handler lambda_function.lambda_handler --zip-file fileb://dummy.zip
{
    "FunctionName": "mock-function",
    "FunctionArn": "arn:aws:lambda:us-east-1:000000000000:function:mock-function",
    "Runtime": "python3.8",
    "Role": "arn:aws:iam::000000000000:role/mock-role",
    "Handler": "lambda_function.lambda_handler",
    "CodeSize": 253,
    "Description": "",
    "Timeout": 3,
    "MemorySize": 128,
    "LastModified": "2025-09-14T18:58:25.928694+0000",
    "CodeSha256": "OS/RFt2LaXTnja+GDNmIF5KjMfzI4q7JfbPoHYE/EvY=",
    "Version": "$LATEST",
    "TracingConfig": {
        "Mode": "PassThrough"
    },
    "RevisionId": "99040acf-e3b1-4765-a2f7-80043dcd7a94",
    "State": "Pending",
    "StateReason": "The function is being created.",
    "StateReasonCode": "Creating",
    "PackageType": "Zip",
    "Architectures": [
        "x86_64"
    ],
    "EphemeralStorage": {
        "Size": 512
    },
    "SnapStart": {
        "ApplyOn": "None",
        "OptimizationStatus": "Off"
    },
    "RuntimeVersionConfig": {
        "RuntimeVersionArn": "arn:aws:lambda:us-east-1::runtime:8eeff65f6809a3ce81507fe733fe09b83589
9b99481ba22fd75b5a7338290ec1"
```

```
        RuntimeVersionConfig : {
            "RuntimeVersionArn": "arn:aws:lambda:us-east-1::runtime:8eeff65f6809a3ce81507fe733fe09b83589
9b99481ba22fd75b5a7338290ec1"
        },
        "LoggingConfig": {
            "LogFormat": "Text",
            "LogGroup": "/aws/lambda/mock-function"
        }
}
```

```
┌──(venv)─(kali⊛vbox)-[~]
└─$ aws --endpoint-url=$AWS_ENDPOINT_URL logs create-log-group --log-group-name /mock/log/group

┌──(venv)─(kali⊛vbox)-[~]
└─$ echo -e 'def lambda_handler(event, context):\n    return {"statusCode": 200}' > lambda_function.
py

┌──(venv)─(kali⊛vbox)-[~]
└─$ zip dummy.zip lambda_function.py
  adding: lambda_function.py (stored 0%)
```

```
(venv)-(kati@vbox)-[~]
$ aws --endpoint-url=$AWS_ENDPOINT_URL dynamodb create-table \
--table-name mock-table \
--attribute-definitions AttributeName=Id,AttributeType=S \
--key-schema AttributeName=Id,KeyType=HASH \
--provisioned-throughput ReadCapacityUnits=5,WriteCapacityUnits=5

"TableDescription": {
    "AttributeDefinitions": [
        {
            "AttributeName": "Id",
            "AttributeType": "S"
        }
    ],
    "TableName": "mock-table",
    "KeySchema": [
        {
            "AttributeName": "Id",
            "KeyType": "HASH"
        }
    ],
    "TableStatus": "ACTIVE",
    "CreationDateTime": "2025-09-15T00:29:40.059000+05:30",
    "ProvisionedThroughput": {
        "NumberOfDecreasesToday": 0,
        "ReadCapacityUnits": 5,
        "WriteCapacityUnits": 5
    },
    "TableSizeBytes": 0,
    "ItemCount": 0,
    "TableArn": "arn:aws:dynamodb:us-east-1:000000000000:table/mock-table",
    "TableId": "4b47f8d3-f2f0-4510-a1d1-13997760c9f2",
    "DeletionProtectionEnabled": false
}
```

```
(venv)-(kali@vbox)-[~]
-$ aws --endpoint-url=$AWS_ENDPOINT_URL dynamodb create-table \
  --table-name mock-table \
  --attribute-definitions AttributeName=Id,AttributeType=S \
  --key-schema AttributeName=Id,KeyType=HASH \
  --provisioned-throughput ReadCapacityUnits=5,WriteCapacityUnits=5

"TableDescription": {
    "AttributeDefinitions": [
        {
            "AttributeName": "Id",
            "AttributeType": "S"
        }
    ],
    "TableName": "mock-table",
    "KeySchema": [
        {
            "AttributeName": "Id",
            "KeyType": "HASH"
        }
    ],
    "TableStatus": "ACTIVE",
    "CreationDateTime": "2025-09-15T00:29:40.059000+05:30",
    "ProvisionedThroughput": {
        "NumberOfDecreasesToday": 0,
        "ReadCapacityUnits": 5,
        "WriteCapacityUnits": 5
    },
    "TableSizeBytes": 0,
    "ItemCount": 0,
    "TableArn": "arn:aws:dynamodb:us-east-1:000000000000:table/mock-table",
    "TableId": "4b47f8d3-f2f0-4510-a1d1-13997760c9f2",
    "DeletionProtectionEnabled": false
}
```

```
{
    "User": {
        "Path": "/",
        "UserName": "mock-user",
        "UserId": "nhn87fqknol85e8k9xkq",
        "Arn": "arn:aws:iam::000000000000:user/mock-user",
        "CreateDate": "2025-09-14T18:56:19.397764+00:00"
    }
}
```

```
┌──(venv)─(kali㉿vbox)-[~]
└─$ export AWS_ACCESS_KEY_ID=test

┌──(venv)─(kali㉿vbox)-[~]
└─$ export AWS_SECRET_ACCESS_KEY=test

┌──(venv)─(kali㉿vbox)-[~]
└─$ export AWS_DEFAULT_REGION=us-east-1

┌──(venv)─(kali㉿vbox)-[~]
└─$ export AWS_ENDPOINT_URL=http://localhost:4566

┌──(venv)─(kali㉿vbox)-[~]
└─$ aws --endpoint-url=$AWS_ENDPOINT_URL s3 mb s3://mock-bucket
make_bucket: mock-bucket

┌──(venv)─(kali㉿vbox)-[~]
└─$ echo "This is a test file for exfiltration." > dummy.txt

┌──(venv)─(kali㉿vbox)-[~]
└─$ aws --endpoint-url=$AWS_ENDPOINT_URL s3 cp dummy.txt s3://mock-bucket/dummy.txt
upload: ./dummy.txt to s3://mock-bucket/dummy.txt

┌──(venv)─(kali㉿vbox)-[~]
└─$ aws --endpoint-url=$AWS_ENDPOINT_URL iam create-role --role-name mock-role --assume-role-policy-
document '{"Version":"2012-10-17","Statement":[{"Effect":"Allow","Principal":{"Service":"ec2.amazona
ws.com"},"Action":"sts:AssumeRole"}]}'
```

```json
{
    "Role": {
        "Path": "/",
        "RoleName": "mock-role",
        "RoleId": "AROAQAAAAAAAAL64R5H2C",
        "Arn": "arn:aws:iam::000000000000:role/mock-role",
        "CreateDate": "2025-09-14T18:56:06.998594+00:00",
        "AssumeRolePolicyDocument": {
            "Version": "2012-10-17",
            "Statement": [
                {
                    "Effect": "Allow",
                    "Principal": {
                        "Service": "ec2.amazonaws.com"
                    },
                    "Action": "sts:AssumeRole"
                }
            ]
        }
    }
}
```

```
 (venv) (kali@vbox)-[~]
└─$ aws --endpoint-url=$AWS_ENDPOINT_URL ec2 create-volume --availability-zone us-east-1a --size 1
{
    "VolumeType": "gp2",
    "VolumeId": "vol-f4ade234e42c2f83d",
    "Size": 1,
    "SnapshotId": "",
    "AvailabilityZone": "us-east-1a",
    "State": "creating",
    "CreateTime": "2025-09-14T18:57:07+00:00",
    "Encrypted": false
}
```

```
██╗      ██████╗  ██████╗ █████╗ ██╗     ███████╗████████╗ █████╗  ██████╗██╗  ██╗
██║     ██╔═══██╗██╔════╝██╔══██╗██║     ██╔════╝╚══██╔══╝██╔══██╗██╔════╝██║ ██╔╝
██║     ██║   ██║██║     ███████║██║     ███████╗   ██║   ███████║██║     █████╔╝
██║     ██║   ██║██║     ██╔══██║██║     ╚════██║   ██║   ██╔══██║██║     ██╔═██╗
███████╗╚██████╔╝╚██████╗██║  ██║███████╗███████║   ██║   ██║  ██║╚██████╗██║  ██╗
╚══════╝ ╚═════╝  ╚═════╝╚═╝  ╚═╝╚══════╝╚══════╝   ╚═╝   ╚═╝  ╚═╝ ╚═════╝╚═╝  ╚═╝
```

- **LocalStack CLI:** 4.8.0
- **Profile:** default
- **App:** https://app.localstack.cloud

```
[23:50:15] starting LocalStack in Docker mode 🦙          localstack.py:532
           preparing environment                          bootstrap.py:1315
           configuring container                          bootstrap.py:1324
           starting container                             bootstrap.py:1334
[23:50:17] detaching                                      bootstrap.py:1338
```

```
┌──(venv)─(kali㉿vbox)-[~]
└─$ export LS_ENDPOINT="http://127.0.0.1:4566"
```

```
┌──(venv)─(kali㉿vbox)-[~]
└─$ aws --endpoint-url $LS_ENDPOINT s3 mb s3://target-employee-data --region us-east-1
make_bucket: target-employee-data
```

```
┌──(venv)─(kali㉿vbox)-[~]
└─$ aws --endpoint-url $LS_ENDPOINT s3api put-bucket-acl --bucket target-employee-data --acl public-
read-write
```

```
┌──(venv)─(kali㉿vbox)-[~]
└─$ aws --endpoint-url $LS_ENDPOINT s3 ls
2025-09-14 23:50:58 target-employee-data
```

```
Pacu (pacu7:No Keys Set) > set_keys
Setting AWS Keys...
Press enter to keep the value currently stored.
Enter the letter C to clear the value, rather than set it.
If you enter an existing key_alias, that key's fields will be updated instead of added.
Key alias must be at least 2 characters

Key alias [None]: test
Access key ID [None]: test
Secret access key [None]: test
Session token (Optional - for temp AWS keys only) [None]: test

Keys saved to database.
```
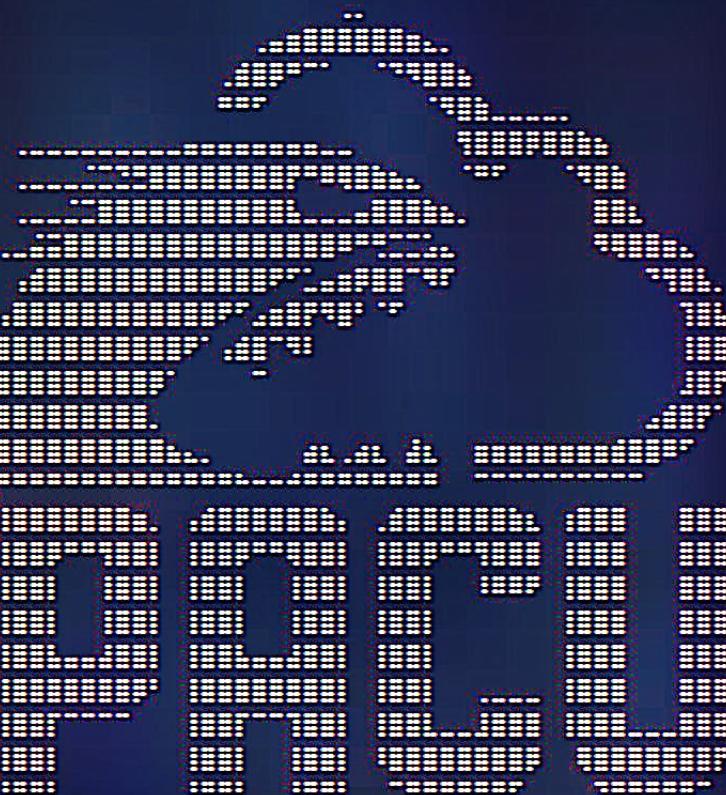
```
┌──(venv)─(kali@vbox)-[~]
└─$ aws --endpoint-url=$AWS_ENDPOINT_URL sns create-topic --name mock-topic
{
    "TopicArn": "arn:aws:sns:us-east-1:000000000000:mock-topic"
}
```

```
    -e AWS_ACCESS_KEY_ID=test \
    -e AWS_SECRET_ACCESS_KEY=test \
    -e AWS_REGION=us-east-1 \
    local-pacu

No database found at /root/.local/share/pacu/sqlite.db
Database created at /root/.local/share/pacu/sqlite.db
```



```
Version: 1.6.1
What would you like to name this new session? pacu7
Session pacu7 created.
```

```
-$ aws —endpoint-url $LS_ENDPOINT s3api get-bucket-acl —bucket target-employee-data
{
    "Owner": {
        "DisplayName": "webfile",
        "ID": "75aa57f09aa0c8caeab4f8c24e99d10f8e7faeebf76c078efc7c6caea54ba06a"
    },
    "Grants": [
        {
            "Grantee": {
                "DisplayName": "webfile",
                "ID": "75aa57f09aa0c8caeab4f8c24e99d10f8e7faeebf76c078efc7c6caea54ba06a",
                "Type": "CanonicalUser"
            },
            "Permission": "FULL_CONTROL"
        },
        {
            "Grantee": {
                "Type": "Group",
                "URI": "http://acs.amazonaws.com/groups/global/AllUsers"
            },
            "Permission": "READ"
        },
        {
            "Grantee": {
                "Type": "Group",
                "URI": "http://acs.amazonaws.com/groups/global/AllUsers"
            },
            "Permission": "WRITE"
        }
    ]
}
```

```
└$ docker ps --filter "name=localstack"
CONTAINER ID     IMAGE                    COMMAND                  CREATED          STATUS
       PORTS                                                                       NAMES
724b33b5306e     localstack/localstack    "docker-entrypoint.sh"   4 minutes ago    Up 4 minutes (health
y)     127.0.0.1:4510-4560→4510-4560/tcp, 127.0.0.1:4566→4566/tcp, 5678/tcp       localstack-main
```