

```
jackal@kali: ~  
Session Actions Edit View Help  
(jackal@kali)-[~]  
$ groups  
jackal adm dialout cdrom floppy sudo audio dip video plugdev users netdev scanner bluetooth lpadmin wireshark kaboxer docker  
(jackal@kali)-[~]  
$ docker ps  
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES  
(jackal@kali)-[~]  
$ localstack start  
localstack: command not found  
(jackal@kali)-[~]  
$ pipx run localstack start  
  
LocalStack  
- LocalStack CLI: 4.8.0  
- Profile: default  
- App: https://app.localstack.cloud  
[02:07:27] starting LocalStack in Docker mode 🐳  
[02:07:28] container image not found on host  
[02:19:41] download complete  
LocalStack Runtime Log (press CTRL-C to quit)  
LocalStack version: 4.8.1.dev3  
LocalStack build date: 2025-09-12  
LocalStack build git hash: 8b4e78295  
Ready.  
█
```

jackal@kali: ~

Session Actions Edit View Help

```
(jackal@kali)-[~]
$ pipx install awscli-local
installed package awscli-local 0.22.2, installed using Python 3.13.7
These apps are now globally available
- awslocal
- awslocal.bat
done! 🌟

(jackal@kali)-[~]
$ awslocal s3 ls

(jackal@kali)-[~]
$ awslocal s3api create-bucket --bucket vulnerable-bucket --acl public-read
{
  "Location": "/vulnerable-bucket"
}

(jackal@kali)-[~]
$ awslocal s3api get-bucket-acl --bucket vulnerable-bucket
{
  "Owner": {
    "DisplayName": "webfile",
    "ID": "75aa57f09aa0c8caeab4f8c24e99d10f8e7faeebf76c078efc7c6cae54ba06a"
  },
  "Grants": [
    {
      "Grantee": {
        "DisplayName": "webfile",
        "ID": "75aa57f09aa0c8caeab4f8c24e99d10f8e7faeebf76c078efc7c6cae54ba06a",
        "Type": "CanonicalUser"
      },
      "Permission": "FULL_CONTROL"
    },
    {
      "Grantee": {
        "Type": "Group",
        "URI": "http://acs.amazonaws.com/groups/global/AllUsers"
      },
      "Permission": "READ"
    }
  ]
}
```

```
jackal@kali: ~/pacu
Session Actions Edit View Help

    "Grantee": {
      "Type": "Group",
      "URI": "http://acs.amazonaws.com/groups/global/AllUsers"
    },
    "Permission": "READ"
  }
]
}

(jackal@kali)-[~]
$ echo "Mock Lab Data" > mock.txt

(jackal@kali)-[~]
$ awslocal s3 cp mock.txt s3://vulnerable-bucket/mock.txt
upload: ./mock.txt to s3://vulnerable-bucket/mock.txt

(jackal@kali)-[~]
$ pipx install git
# installing git
Fatal error from pip prevented installation. Full pip output in file:
/home/jackal/.local/state/pipx/log/cmd_2025-09-12_02.32.16_pip_errors.log

Some possibly relevant errors from pip install:
ERROR: Could not find a version that satisfies the requirement git (from versions: none)
ERROR: No matching distribution found for git

Error installing git.

(jackal@kali)-[~]
$

(jackal@kali)-[~]
$ pipx install git+https://github.com/RhinoSecurityLabs/pacu.git
installed package pacu 1.6.1, installed using Python 3.13.7
These apps are now globally available
- pacu
done! 🌟

(jackal@kali)-[~]
$ pacu
```



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jackal@kali: ~  
Session Actions Edit View Help  
  
delete_keys          supply --all to import all the credentials in the file.  
assume_role <role arn> Delete a set of AWS keys in the current session from the Pacu database  
                    [<serial arn>] [<token code>] Call AssumeRole on the specified role from the current  
                    credentials, add the resulting temporary keys to the Pacu  
                    key database and start using these new credentials.  
                    Optionally you can provide serial number arn and token code  
                    in case MFA is required to assume the role  
export_keys          Export the active credentials to a profile in the AWS CLI  
                    credentials file (~/.aws/credentials)  
sessions/list_sessions List all sessions in the Pacu database  
swap_session <session name> Change the active Pacu session to another one in the database  
delete_session       Delete a Pacu session from the database. Note that the output  
                    folder for that session will not be deleted  
history              List the previously typed commands  
exit/quit            Exit Pacu  
  
Other command info:  
aws <command>        Run an AWS CLI command directly. Note: If Pacu detects "aws"  
                    as the first word of the command, the whole command will  
                    instead be run in a shell so that you can use the AWS CLI  
                    from within Pacu. Due to the command running in a shell,  
                    this enables you to pipe output where needed. An example  
                    would be to run an AWS CLI command and pipe it into "jq"  
                    to parse the data returned. Warning: The AWS CLI's  
                    authentication is not related to Pacu. Be careful to  
                    ensure that you are using the keys you want when using  
                    the AWS CLI. It is suggested to use AWS CLI profiles  
                    to solve this problem  
console/open_console  Generate a URL that will log the current user/role in to  
                    the AWS web console  
debug                 Display the contents of the error log file  
  
Detected environment as one of Kali/Parrot/Pentoo Linux. Modifying user agent to hide that from GuardDuty...  
User agent for this session set to:  
aws-sdk-go/1.4.10 (go1.8.3; linux; amd64)  
Pacu (m: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.
```



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Pacu (m: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]: localstack  
Access key ID [None]: test  
Secret access key [None]: test  
Session token (Optional - for temp AWS keys only) [None]:  
  
Keys saved to database.  
  
Pacu (m:localstack) > run iam__privesc_scan  
Running module iam__privesc_scan...  
[iam__privesc_scan] No permissions detected yet.  
[iam__privesc_scan] Data (Current User/Role > Permissions) not found, run module "iam__enum_permissions" to fetch it? (y/n) y  
[iam__privesc_scan] Running module iam__enum_permissions...  
  
[2025-09-12 06:43:20] Pacu encountered an error while running the previous command. Check /home/jackal/.local/share/pacu/m/error_log.txt for technical details, or use the debug command. [LOG LEVEL: MINIMAL]  
  
<class 'botocore.exceptions.ClientError': An error occurred (InvalidClientTokenId) when calling the GetCallerIdentity operation: The security token included in the request is invalid.  
  
Pacu (m:localstack) > set_regions us-east-1  
Session regions changed: ['us-east-1']  
Pacu (m:localstack) > run iam__privesc_scan  
Running module iam__privesc_scan...  
[iam__privesc_scan] No permissions detected yet.  
[iam__privesc_scan] Data (Current User/Role > Permissions) not found, run module "iam__enum_permissions" to fetch it? (y/n) y  
[iam__privesc_scan] Running module iam__enum_permissions...  
  
[2025-09-12 06:44:34] Pacu encountered an error while running the previous command. Check /home/jackal/.local/share/pacu/m/error_log.txt for technical details, or use the debug command. [LOG LEVEL: MINIMAL]  
  
<class 'botocore.exceptions.ClientError': An error occurred (InvalidClientTokenId) when calling the GetCallerIdentity operation: The security token included in the request is invalid.  
  
Pacu (m:localstack) > █
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└─$ docker ps  
CONTAINER ID   IMAGE      COMMAND                  STATUS    PORTS    NAMES  
  
└─(jackal@kali)~[~]  
└─$ localstack start  
localstack: command not found  
  
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LocalStack  
  
LocalStack CLI: 4.8.0  
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Ready.  
2025-09-12T06:26:14.474 INFO — [et.reactor-0] localstack.request.aws : AWS s3.ListBuckets ⇒ 200  
2025-09-12T06:27:14.307 INFO — [et.reactor-0] localstack.request.aws : AWS s3.CreateBucket ⇒ 200  
2025-09-12T06:28:50.048 INFO — [et.reactor-0] localstack.request.aws : AWS s3.GetBucketAcl ⇒ 200  
2025-09-12T06:31:47.758 INFO — [et.reactor-0] localstack.request.aws : AWS s3.PutObject ⇒ 200  
2025-09-12T06:47:54.538 INFO — [et.reactor-0] localstack.request.aws : AWS s3.HeadObject ⇒ 200  
2025-09-12T06:47:54.552 INFO — [et.reactor-0] localstack.request.aws : AWS s3.GetObject ⇒ 200
```

```
jackal@kali: ~  
Session Actions Edit View Help  
(jackal@kali)-[~]  
$ awslocal s3 cp s3://vulnerable-bucket/mock.txt ./exfiltrated.txt  
download: s3://vulnerable-bucket/mock.txt to ./exfiltrated.txt  
(jackal@kali)-[~]  
$ cat ./exfiltrated.txt  
Mock Lab Data  
(jackal@kali)-[~]  
$
```