# **Cloud DFIR class 1**

# Cloud goat



담당	NICO			
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트랙	디지털포렌식 트랙			
성명	김 동 은			

When I first run CloudGoat, the following error occurs:

The above error is related to duplication in IAM roles and policies, as well as issues with the version of SSM resources and RDS.

### 1. IAM

First, remove the policies and roles in IAM that are causing the above errors.

역할 이름	▲
AWSServiceRoleForRDS	AWS 서비스: rds (서비스 연결 역할) 23분 전
AWSServiceRoleForSupport	AWS 서비스: support( <u>서비스 연결</u> 역 -
AWSServiceRoleForTrustedAdvisor	AWS 서비스: trustedadvisor(서비스 -

0	AlexaForBusinessGate	AWS 관리형	권한 정책 (1)	Provide gateway execution access to A
0	<u>★ AlexaForBusinessLifes</u>	AWS 관리형	권한 정책 (1)	Provide access to Lifesize AVS devices
$\circ$	AlexaForBusinessNet	AWS 관리형	없음	This policy enables Alexa for Business
0	AlexaForBusinessPoly	AWS 관리형	권한 정책 (1)	Provide access to Poly AVS devices
0	AlexaForBusinessRead	AWS 관리형	권한 정책 (1)	Provide read only access to AlexaForB
0	• AmazonAPIGatewayA	AWS 관리형	권한 정책 (1)	Provides full access to create/edit/dele
$\circ$	◆ <u>AmazonAPIGatewayIn</u>	AWS 관리형	권한 정책 (1)	Provides full access to invoke APIs in A
$\circ$	■ AmazonAPIGatewayP	AWS 관리형	없음	Allows API Gateway to push logs to us
0		AWS 관리형	없음	Provides full access to Amazon AppFlo
0		AWS 관리형	없음	Provides read only access to Amazon A

Once you remove the policies and roles as described above, the issue will be resolved.

#### 2. RDS

```
aws rds describe-db-engine-versions --default-only --engine postgres
```

Using the command mentioned above, find the RDS versions supported in the current region and version, then modify the rds.tf code accordingly.

```
resource "aws db instance" "cg-rds" {
  allocated storage
                       = 20
                       = "gp2"
  storage_type
                       = "postgres"
  engine
  engine_version
                       = "16.3"
                       = "db.t3.micro"
  instance class
  db_subnet_group_name = aws_db_subnet_group.c
                       = var.rds-database-name
  db name
  username
                       = var.rds_username
                       = var.rds_password
  password
  parameter_group_name = "default.postgres16"
```

By following the steps mentioned above, the RDS issue will be resolved...

### 3. SSM

In the ssm.tf file, allow for duplication to resolve the issue.

After going through the above steps, you should be able to confirm that everything runs successfully.

```
Apply complete! Resources: 58 added, 0 changed, 0 destroyed.

Outputs:

cg_web_site_ip = "54.165.123.181"
cg_web_site_port = 5000

[cloudgoat] terraform apply completed with no error code.

[cloudgoat] terraform output completed with no error code.
cg_web_site_ip = 54.165.123.181
cg_web_site_port = 5000

[cloudgoat] Output file written to:
    /home/user/cloudgoat/glue_privesc_cgidn774pm2k2a/start.txt
```

The issue is that upon connecting, it is confirmed that the database is not linked as expected.

## InFailedSqlTransaction

psycopg2.errors.InFailedSqlTransaction: current transaction is aborted, commands ignored until end of transaction block

```
Traceback (most recent call last)
  File "/usr/local/lib/python3.7/site-packages/flask/app.py", line 2552, in __call_
   return self.wsgi_app(environ, start_response)
  File "/usr/local/lib/python3.7/site-packages/flask/app.py", line 2532, in wsgi_app
   response = self.handle_exception(e)
  File "/usr/local/lib/python3.7/site-packages/flask/app.py", line 2529, in wsgi_app
   response = self.full_dispatch_request()
  File \ "/usr/local/lib/python 3.7/site-packages/flask/app.py", \ line \ \textit{1825}, \ in \ full\_dispatch\_request
   rv = self.handle_user_exception(e)
  File "/usr/local/lib/python3.7/site-packages/flask/app.py", line 1823, in full_dispatch_request
   rv = self.dispatch_request()
  File "/usr/local/lib/python3.7/site-packages/flask/app.py", line 1799, in dispatch_request
   return self.ensure_sync(self.view_functions[rule.endpoint])(**view_args)
  File "/home/ec2-user/my_flask_app/my_flask_app/app.py", line 104, in index
  cur.execute("select * from cc_data")
psycopg2.errors.InFailedSqlTransaction: current transaction is aborted, commands ignored until end of transaction block
```

The debugger caught an exception in your WSGI application. You can now look at the traceback which led to the error.

Now, I plan to resolve the issue with the database not being linked.