Cloud DFIR class 1

Cloud goat



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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.