Connecting to AWS Aurora PostgreSQL from pgAdmin

----

1. Prerequisites

- Aurora endpoint

- Port 5432

- Master username/password

- Public accessibility or tunnel/VPN

- SSL requirements

2. Aurora Configuration

- Ensure Publicly Accessible = YES if connecting over internet.

- Or prepare SSH tunnel / VPN for private clusters.

3. Security Group Rules

Inbound:

Type: PostgreSQL

Port: 5432

Source: your_public_ip/32

4. pgAdmin Configuration

Host:

Port: 5432

DB: postgres

SSL: require or verify-full

Certificate: global-bundle.pem as needed.

5. CLI Connection Examples

psql:

psql "host= user= dbname=postgres sslmode=require"

6. SSH Tunnel Example

ssh -i key.pem -L 5432::5432 ec2-user@

7. IAM Authentication Example

aws rds generate-db-auth-token --hostname --port 5432 --username

8. Python psycopg2 Example

import psycopg2

conn = psycopg2.connect(

host="",

user="",

password="",

dbname="postgres",

sslmode="require"

)

9. AWS CLI Examples

aws rds describe-db-clusters

aws rds describe-db-instances

Troubleshooting

- Timeouts: security group or public access

- SSL errors: use require or correct CA bundle

- Host resolution: incorrect endpoint