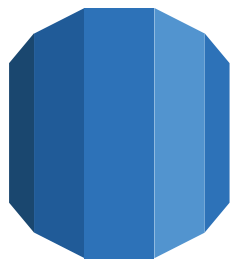


10min

# RDS Breach Scenario



DigitalForensic Track  
김태룡

# INDEX

## **01. RDS**

## **02. Scenario**

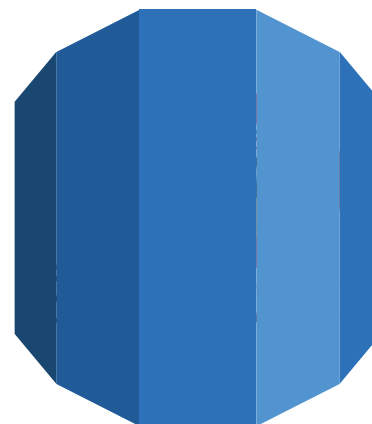
**2-1 Build**

**2-2 Attack**

**2-3 Detection**

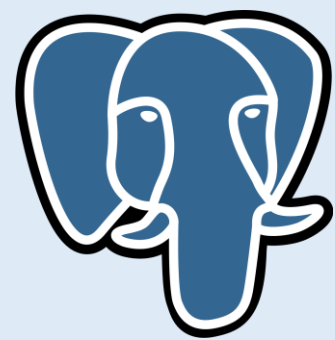
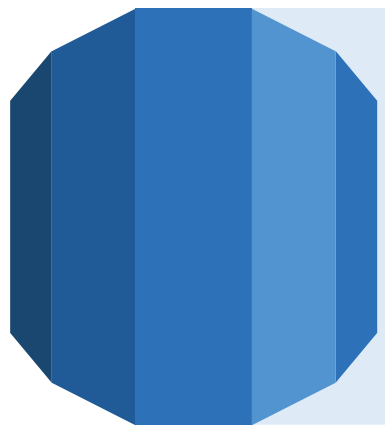
## **03. Remediate**

# RDS

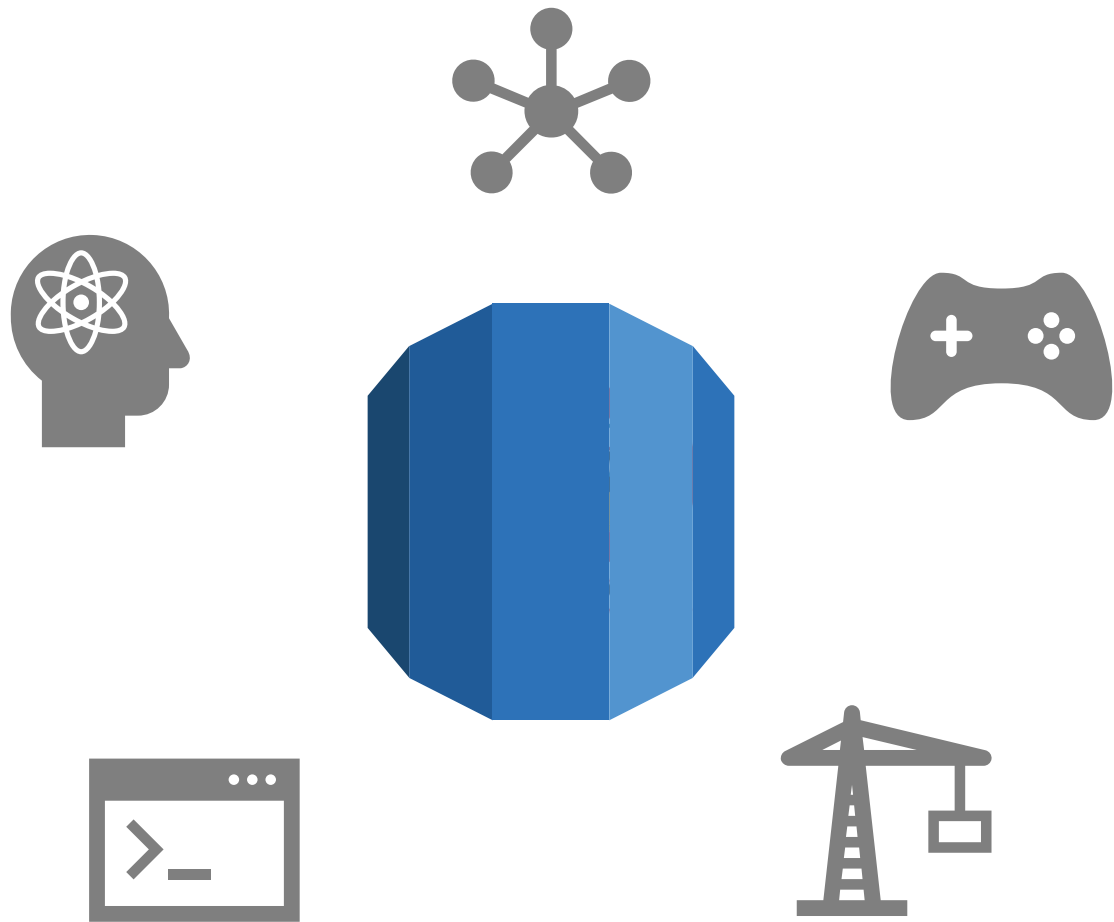


## Relational Database Service

# RDS

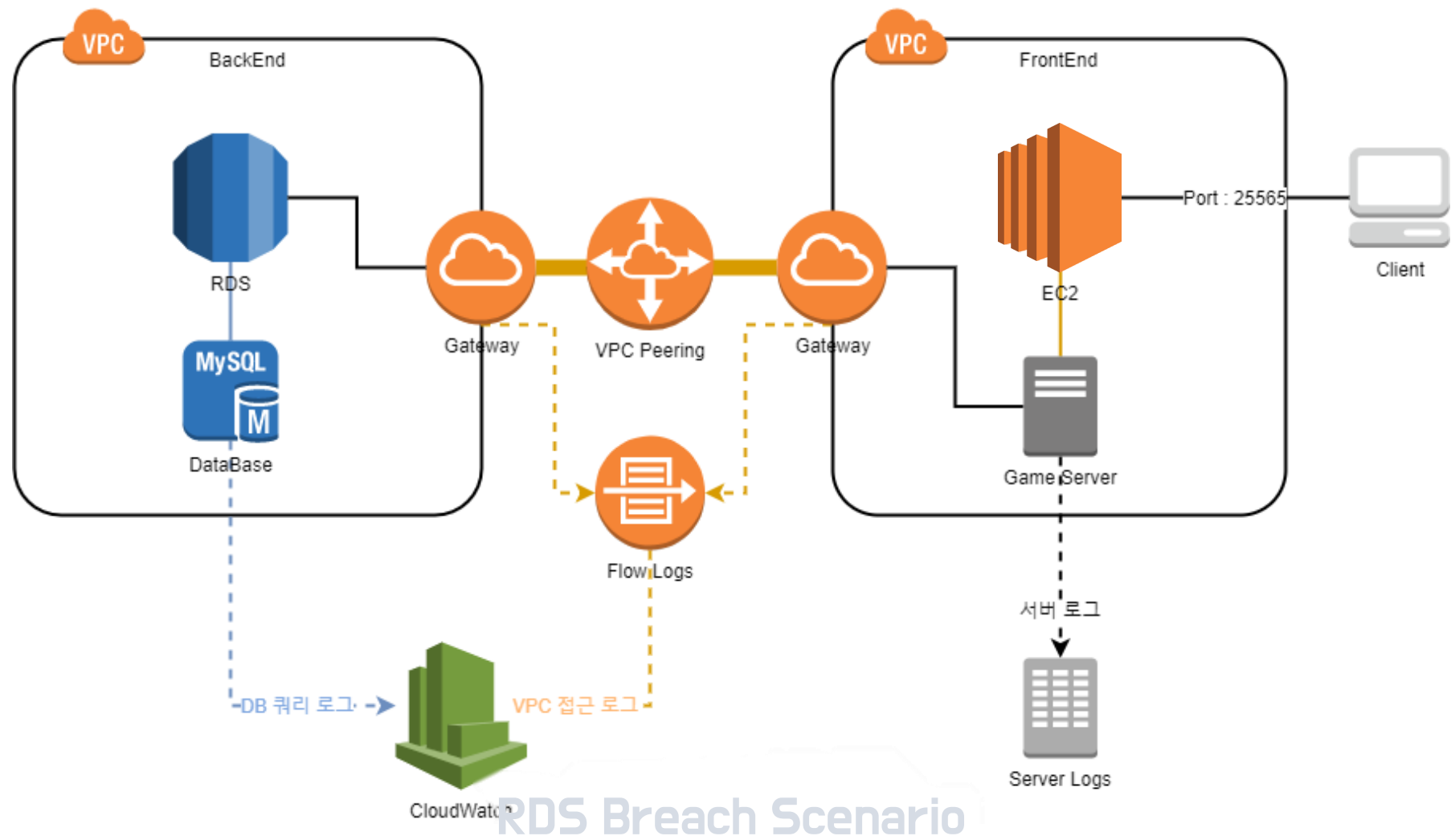


# RDS



RDS Breach Scenario

# Scenario Build



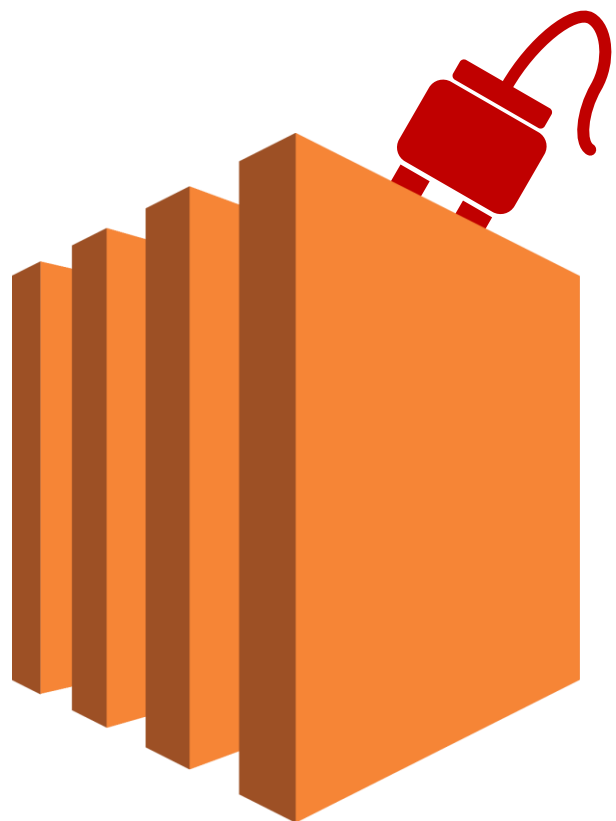
# Scenario Build



+ Economy System

RDS Breach Scenario

# Scenario Build

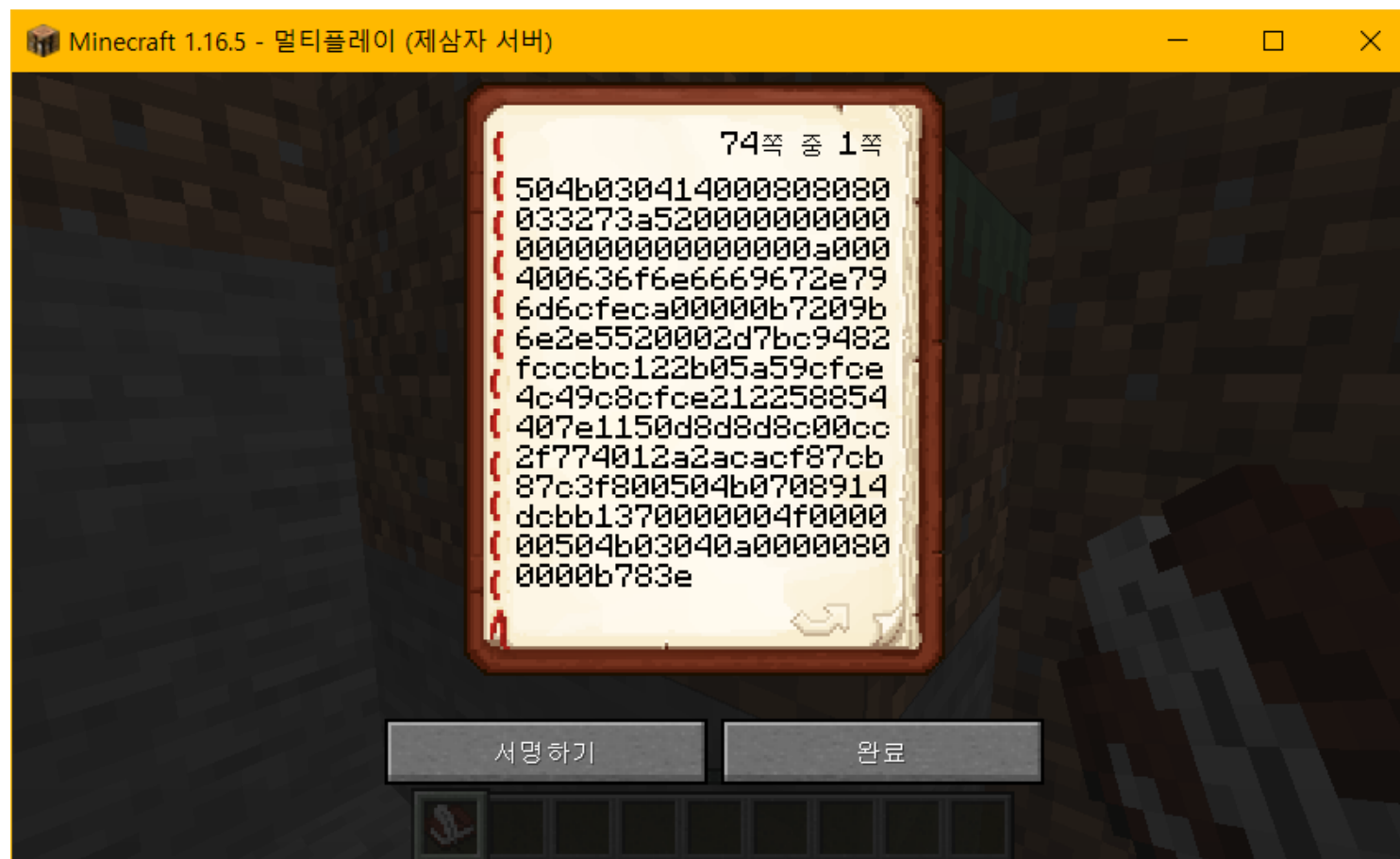


+ Command Execute  
+ Economy System

RDS Breach Scenario

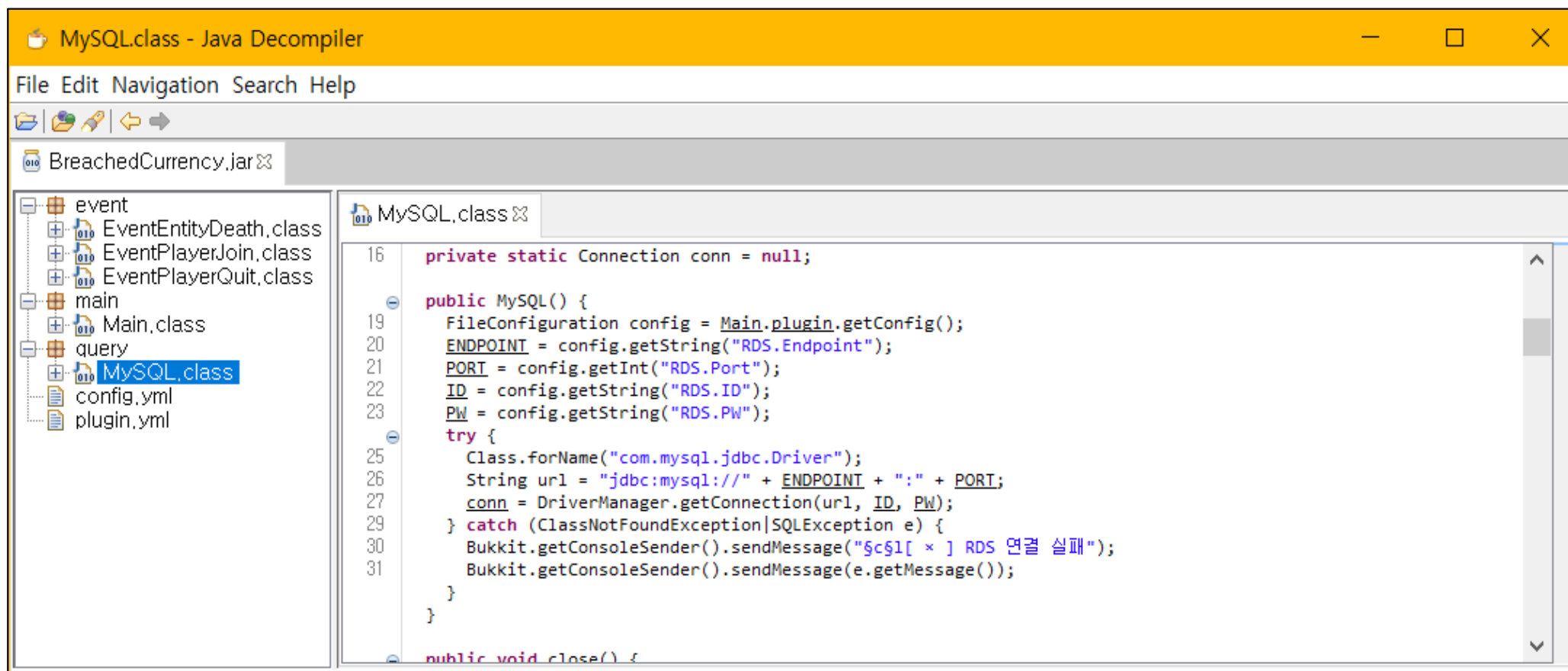


# Scenario Attack



RDS Breach Scenario

# Scenario Attack

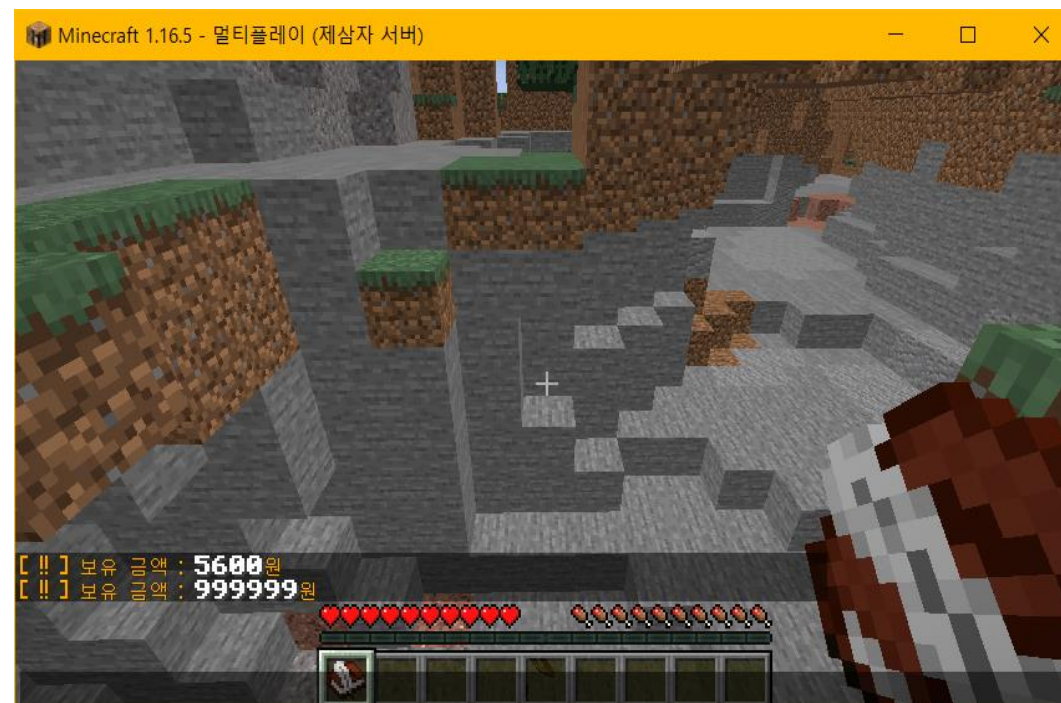


# Scenario Attack

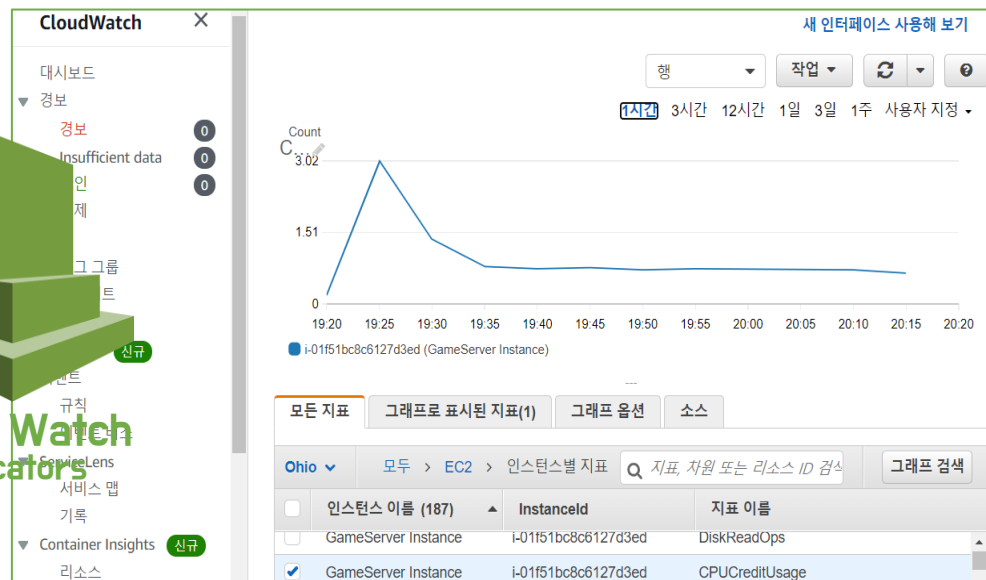


RDS Breach Scenario

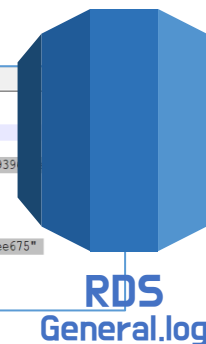
# Scenario Attack



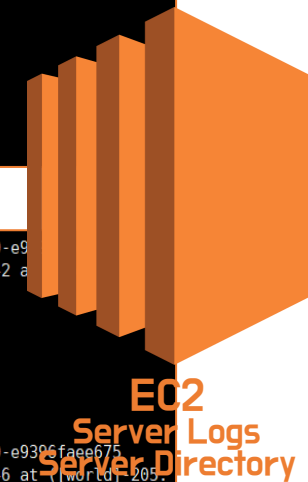
# Scenario Detection



```
mysql-general (1).log
1788 2021-01-31T19:43:52.272234Z 7 Query SELECT 1
1789 2021-01-31T19:43:52.272765Z 7 Query SELECT @@GLOBAL.read only
1790 2021-01-31T19:43:55.075481Z 214 Connect root@20.20.107.19 on bob_online using TCP/IP
1791 2021-01-31T19:43:55.075899Z 214 Query SET AUTOCOMMIT = 0
1792 2021-01-31T19:43:55.076291Z 214 Query UPDATE 'bob_online'. 'currency' SET money = 999999 WHERE uuid = "c6d0bdal-9cf8-4dd1-82e0-e939
1793 2021-01-31T19:43:55.078712Z 214 Query COMMIT
1794 2021-01-31T19:43:55.080925Z 214 Quit
1795 2021-01-31T19:51:31.937656Z 217 Connect root@20.20.107.19 on bob_online using TCP/IP
1796 2021-01-31T19:51:31.938083Z 217 Query SET AUTOCOMMIT = 0
1797 2021-01-31T19:51:31.938570Z 217 Query UPDATE 'bob_online'. 'users' SET isAdmin = 1 WHERE uuid = "c6d0bdal-9cf8-4dd1-82e0-e9396faee675"
1798 2021-01-31T19:51:31.939105Z 217 Query COMMIT
1799 2021-01-31T19:51:31.941596Z 217 Quit
1800 2021-01-31T19:51:37.265285Z 7 Query SELECT 1
```



```
lubuntu@ip-20-20-107-19:~$ls ./minecraftserver --time-style='+%Y-%m-%d %H:%M:%S' -alt 2> /dev/null
total 35092
drwxrwxr-x 8 ubuntu ubuntu 4096 2021-02-01 08:24:48 .
drwxr-xr-x 13 ubuntu ubuntu 4096 2021-02-01 08:24:48 ..
drwxrwxr-x 9 ubuntu ubuntu 4096 2021-01-31 20:14:24 world
-rw-rw-r-- 1 ubuntu ubuntu 141 2021-01-31 19:51:47 ops.json
-rw-rw-r-- 1 ubuntu ubuntu 112 2021-01-31 19:51:47 usercache.json
-rw-rw-r-- 1 ubuntu ubuntu 376 2021-01-31 19:26:22 command.py
-rw-rw-r-- 1 ubuntu ubuntu 3757 2021-01-31 19:21:23 spigot.yml
-rw-rw-r-- 1 ubuntu ubuntu 2 2021-01-31 19:21:10 banned-ips.json
```



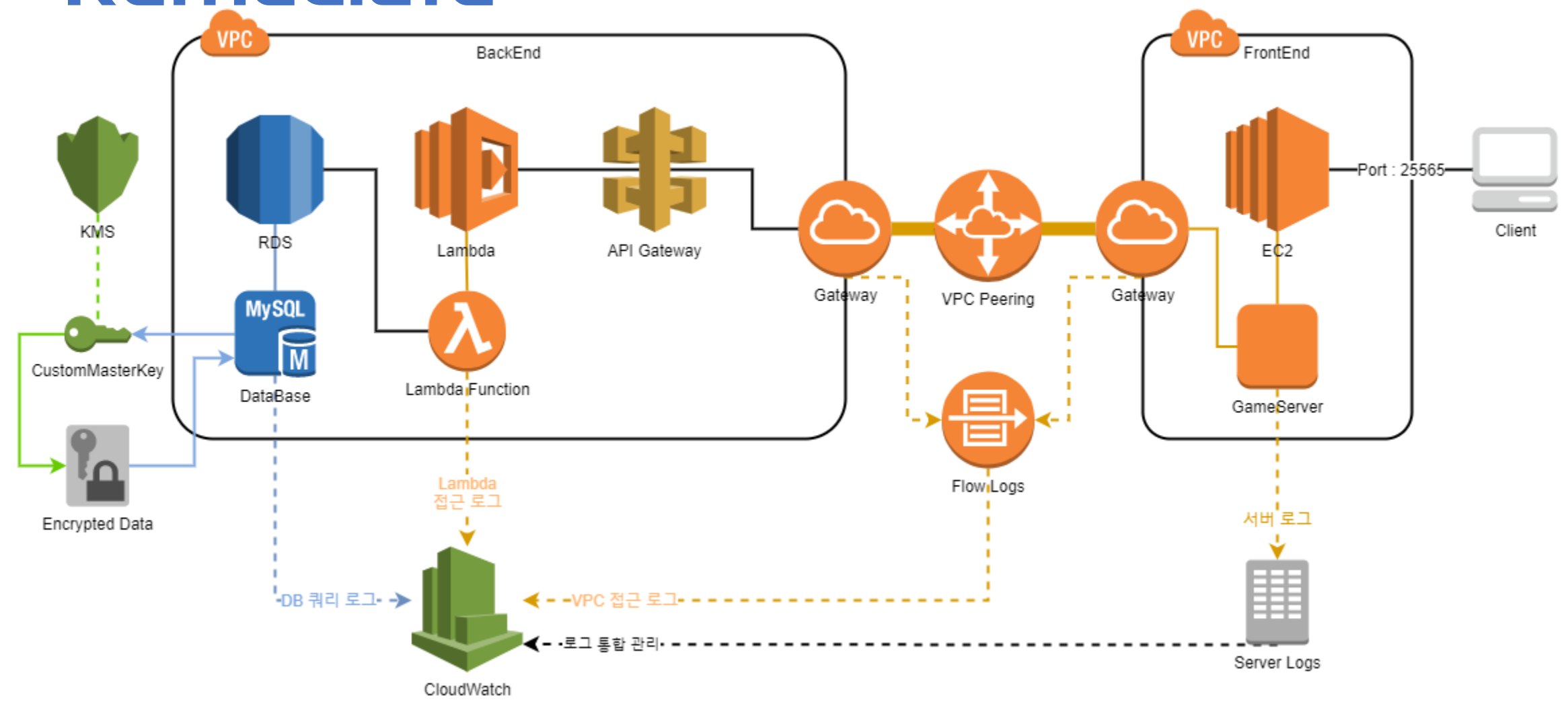
```
[19:25:57] [User Authenticator #2/INFO]: UUID of player GoldBigDragon is c6d0bdal-9cf8-4dd1-82e0-e9396faee675
[19:25:58] [Server thread/INFO]: GoldBigDragon[112.148.181.37:5286] logged in with entity id 142 at [world, 209.75206294624635, 69.0, 143.7667944263008]
[19:26:23] [Server thread/INFO]: Gave 1 [Book and Quill] to GoldBigDragon
[19:32:54] [Server thread/INFO]: GoldBigDragon issued server command: /เ
[19:33:05] [Server thread/INFO]: GoldBigDragon issued server command: /เ
[19:43:59] [Server thread/INFO]: GoldBigDragon issued server command: /เ
[19:51:45] [Server thread/INFO]: GoldBigDragon lost connection: Disconnected
[19:51:45] [Server thread/INFO]: GoldBigDragon left the game
[19:51:47] [User Authenticator #3/INFO]: UUID of player GoldBigDragon is c6d0bdal-9cf8-4dd1-82e0-e9396faee675
[19:51:47] [Server thread/INFO]: GoldBigDragon[112.148.181.37:5638] logged in with entity id 246 at [world, 209.56317344767467, 68.0, 143.63355880430422]
[19:51:53] [Server thread/INFO]: GoldBigDragon issued server command: /gamemode creative
[19:51:53] [Server thread/INFO]: [GoldBigDragon: Set own game mode to Creative Mode]
```



2021-02-01T05:11:11.000+09:00	2	276179613427	eni-01aeb162dc96c764c	20.20.107.19	10.10.234.37	58662	3306	6	1	52	1612123871	1612123920	ACCEPT	OK
2021-02-01T05:11:11.000+09:00	2	276179613427	eni-01aeb162dc96c764c	20.20.107.19	10.10.234.37	58662	3306	6	1	52	1612123871	1612123920	ACCEPT	OK
2021-02-01T05:11:11.000+09:00	2	276179613427	eni-01aeb162dc96c764c	10.10.234.37	20.20.107.19	3306	58662	6	1	52	1612123871	1612123920	ACCEPT	OK
2021-02-01T05:13:14.000+09:00	2	276179613427	eni-01aeb162dc96c764c	20.20.107.19	10.10.234.37	58714	3306	6	14	1025	1612123994	1612124040	ACCEPT	OK
2021-02-01T05:13:14.000+09:00	2	276179613427	eni-01aeb162dc96c764c	20.20.107.19	10.10.234.37	58714	3306	6	14	1025	1612123994	1612124040	ACCEPT	OK
2021-02-01T05:13:14.000+09:00	2	276179613427	eni-01aeb162dc96c764c	20.20.107.19	10.10.234.37	58708	3306	6	14	1025	1612123994	1612124040	ACCEPT	OK
2021-02-01T05:13:14.000+09:00	2	276179613427	eni-01aeb162dc96c764c	20.20.107.19	10.10.234.37	58708	3306	6	14	1025	1612123994	1612124040	ACCEPT	OK
2021-02-01T05:13:14.000+09:00	2	276179613427	eni-01aeb162dc96c764c	10.10.234.37	20.20.107.19	3306	58714	6	9	639	1612123994	1612124040	ACCEPT	OK
2021-02-01T05:13:14.000+09:00	2	276179613427	eni-01aeb162dc96c764c	10.10.234.37	20.20.107.19	3306	58714	6	9	639	1612123994	1612124040	ACCEPT	OK

## RDS Breach Scenario

# Remediate



RDS Breach Scenario

**Thankyou**