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Name	Misconfigured Private API
URL	https://attackdefense.com/challengedetails?cid=2277
Туре	AWS Cloud Security : API Gateway

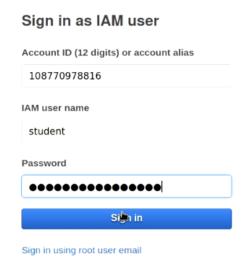
Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

Solution:

Step 1: Click on the lab link to get access to AWS credentials.



Step 2: Sign-in into the AWS console.





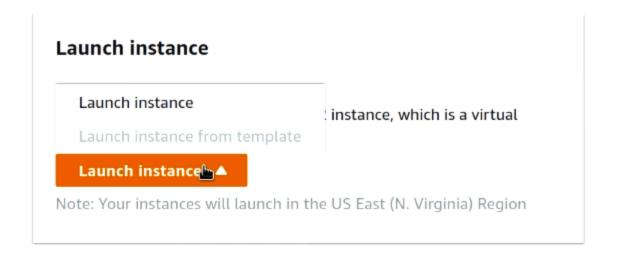
Step 3: Enumerate API details and resource policy.



Step 4: Check API stages.



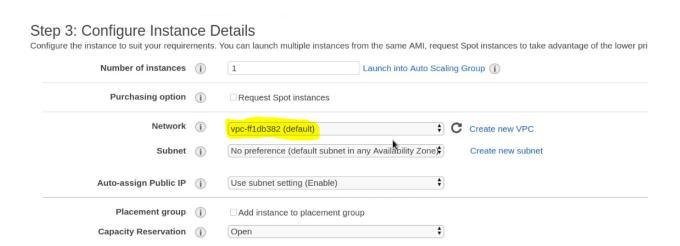
Step 5: Navigate to the ec2 dashboard and click on launch instance.



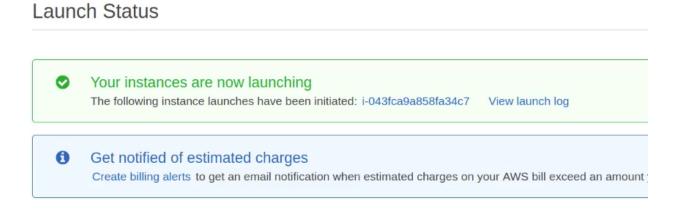
Step 6: Use Amazon Linux 2 AMI.



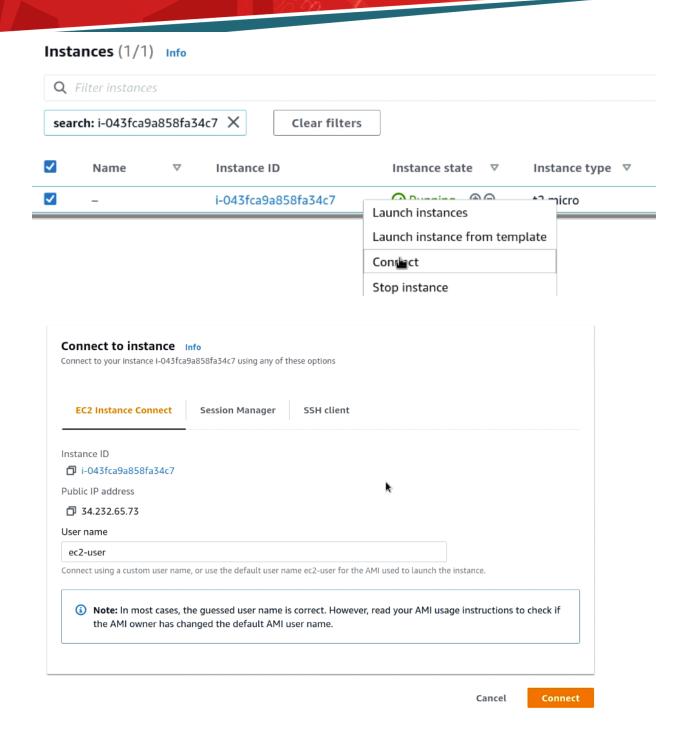
Step 7: Use default VPC for instance.



Step 8: Launch the instance. Create a new key pair or use an existing one.



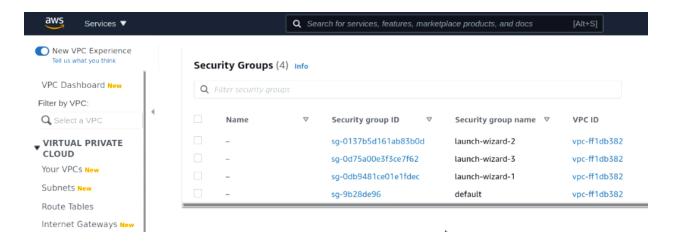
Step 9: Connect to the instance in the instance dashboard.



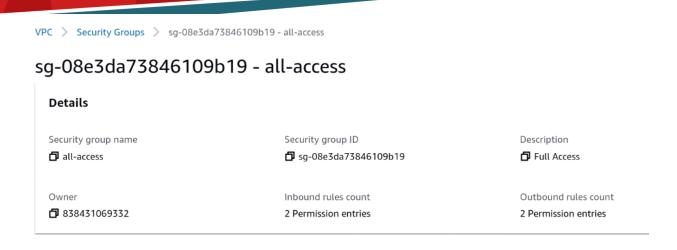
Step 10: Try accessing the API gateway using ec2.

The request fails.

Step 11: Navigate to the VPC dashboard in another tab and navigate to the security group panel.



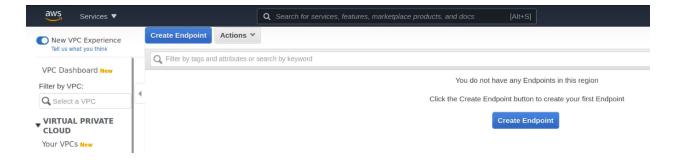
Step 12: Create a new security group with the following details.

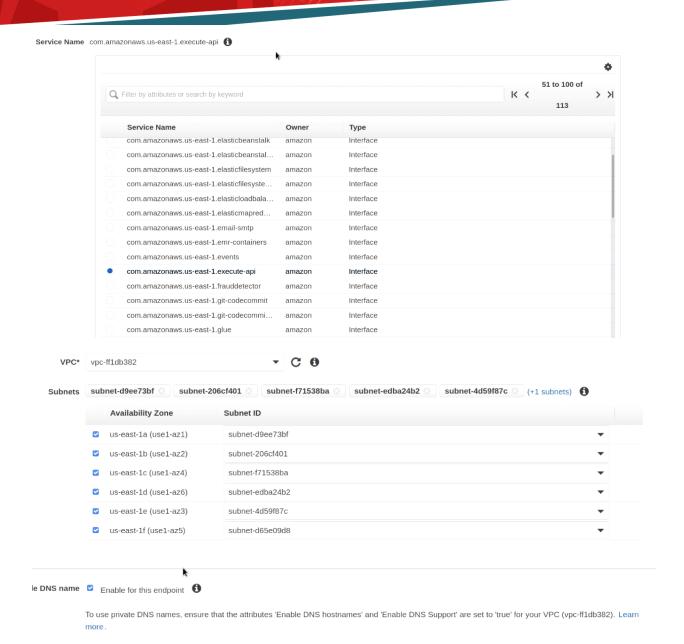


Step 13: Navigate to the endpoint services and create a new endpoint with the following details.

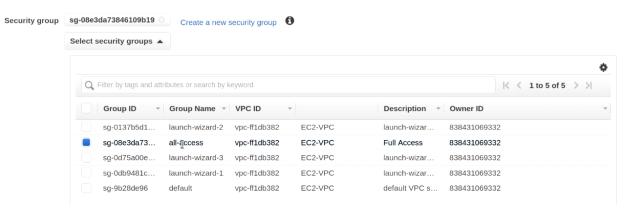
Service Name: com.amazonaws.us-east-1.execute-api

Select all availability zones.





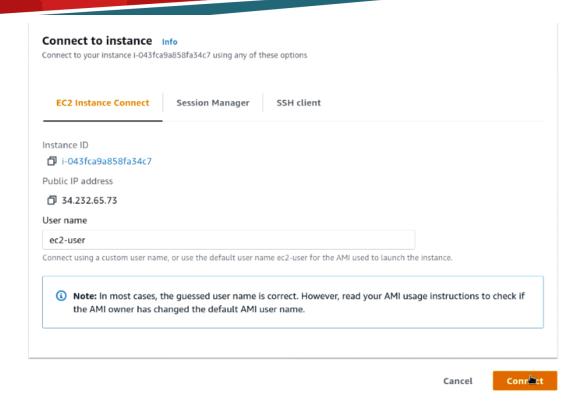
Step 14: Use the newly created security group.



Use 'Full Access' policy after choosing the security group.

Step 15: Wait for the endpoint to become active and connect to the ec2 terminal.





Step 16: Try accessing the API gateway using ec2.

FLAG: 43a3866a6a360a70219f7e387a1e528

Successfully accessed API gateway and retrieved flag.

Note: VPC Endpoints cost 0.01 \$ per hour and similarly the EC2 instances also have hourly charge, please terminate them after usage otherwise unattended resources can incur unnecessary charges.