Goals

Create an API with api gateway Use a VPC link to secure traffic

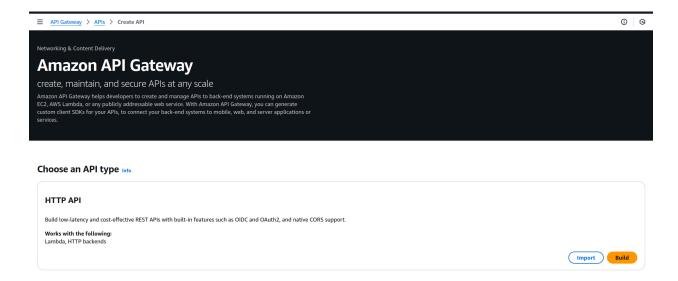
End result:

You can now use https so traffic is more secure EC2 is less exposed to the internet

Create API Gateway

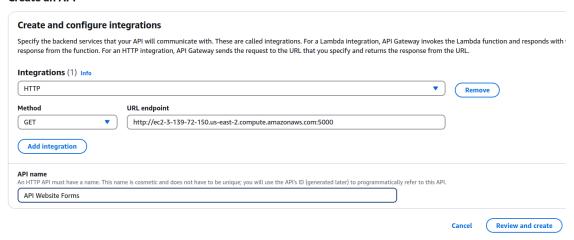
Create the HTTP Gateway

Click on build



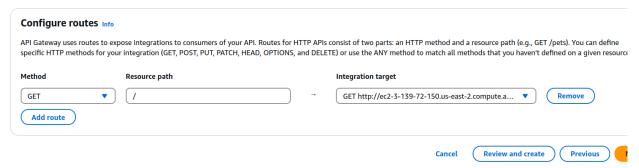
Use these settings. Add the endpoint with the port to your EC2 Instance

Create an API



We will be using the base path / resource.

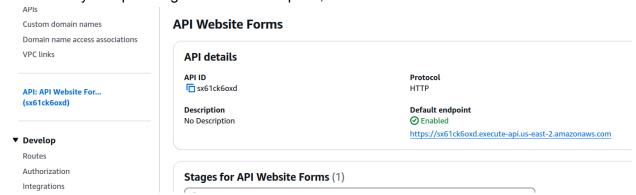
Configure routes - optional

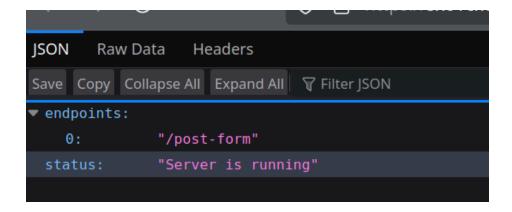


Go through the rest with default settings and click create

Test it out

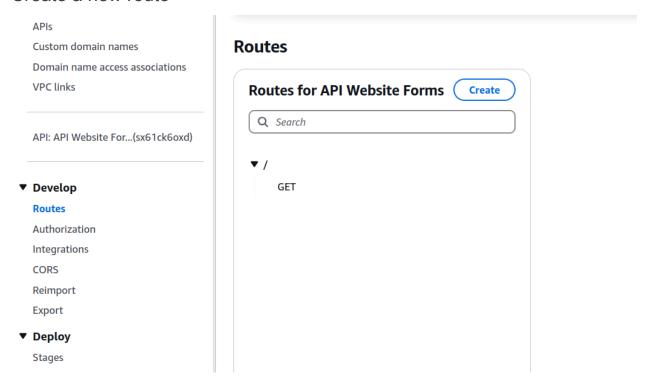
Connect to your api through the default endpoint, located in the API tab





Create post-form route

Create a new route

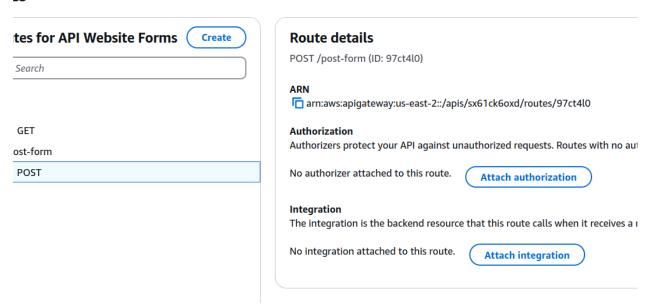


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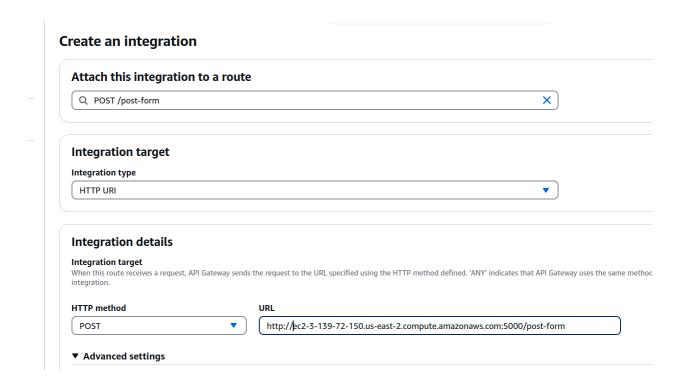
Add the integration

es



Create and attach an integration

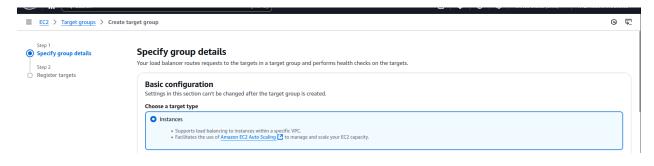
Add the url. Don't forget the http.

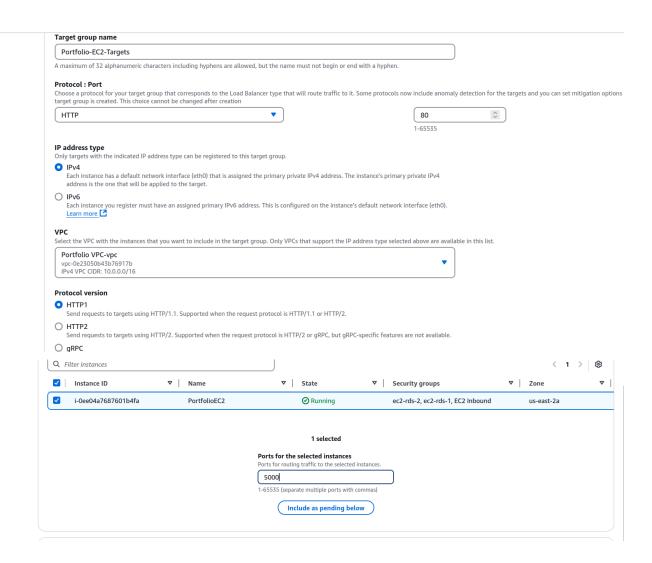


Go back to your index.html and replace the form action with your post form api.

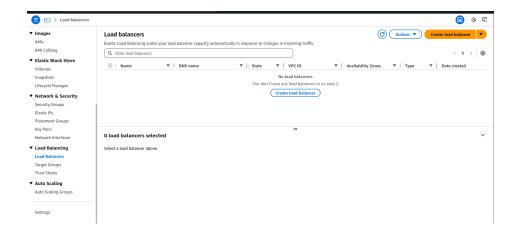
Congratulations.

Creating a target group

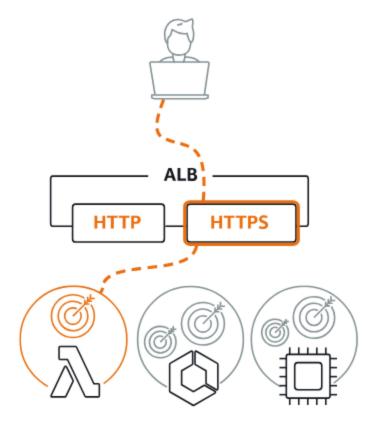




Creating an application load balancer

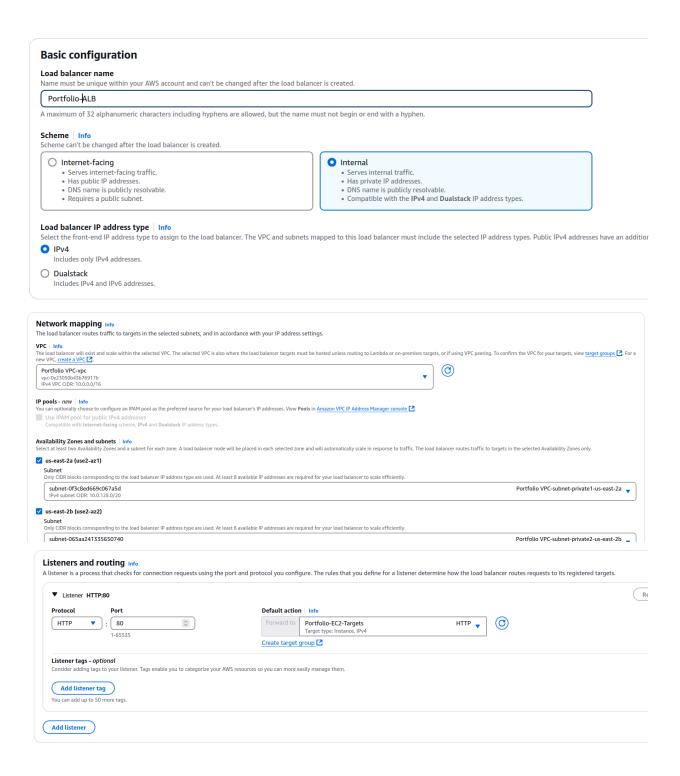


Application Load Balancer Info



Choose an Application Load Balancer when you need a flexible feature set for your applications with HTTP and HTTPS traffic. Operating at the request level, Application Load Balancers provide advanced routing and visibility features targeted at application architectures, including microservices and containers.

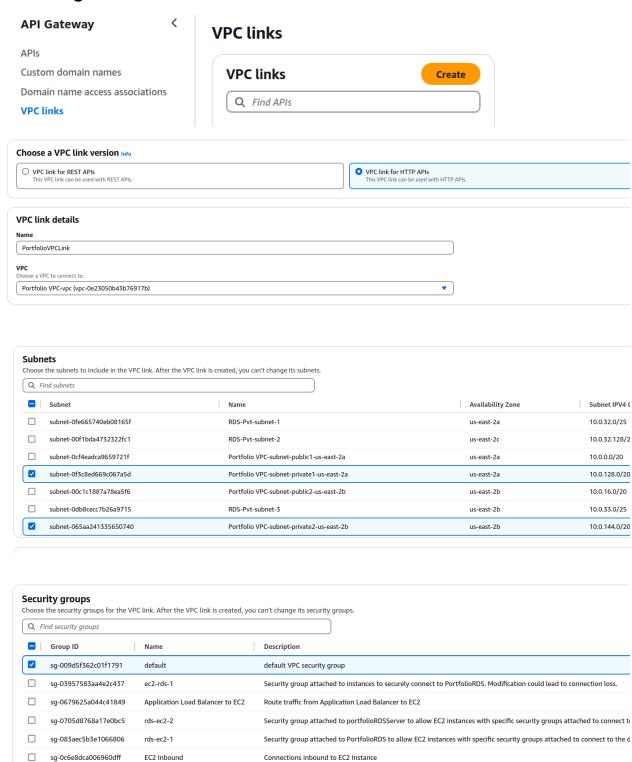
Create



Creating a VPC Link

sg-0ca25c20595f8ab15

ec2-rds-2

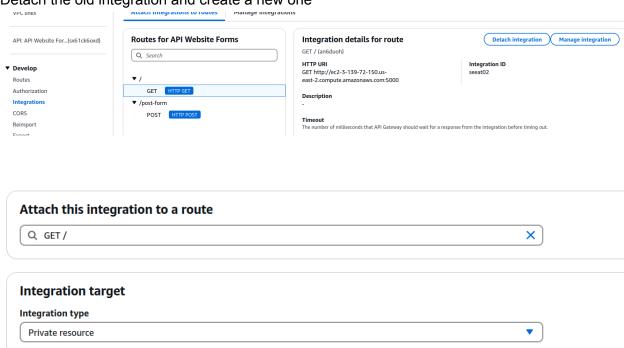


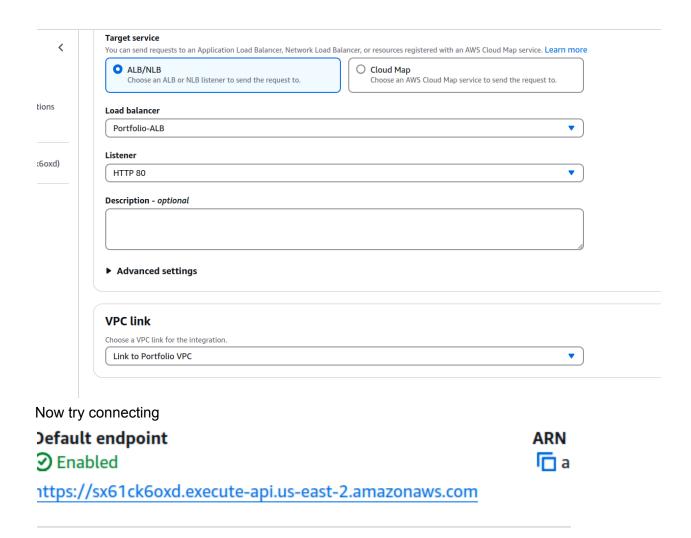
Security group attached to instances to securely connect to portfolioRDSServer. Modification could lead to connection los

Creating a more private route

Create a new integration for route /

Detach the old integration and create a new one





Works! Now do the same with the /post-form route.

End questions:

What security improvements did we add?

Where are some weakpoints in security that could possibly be exploited still?