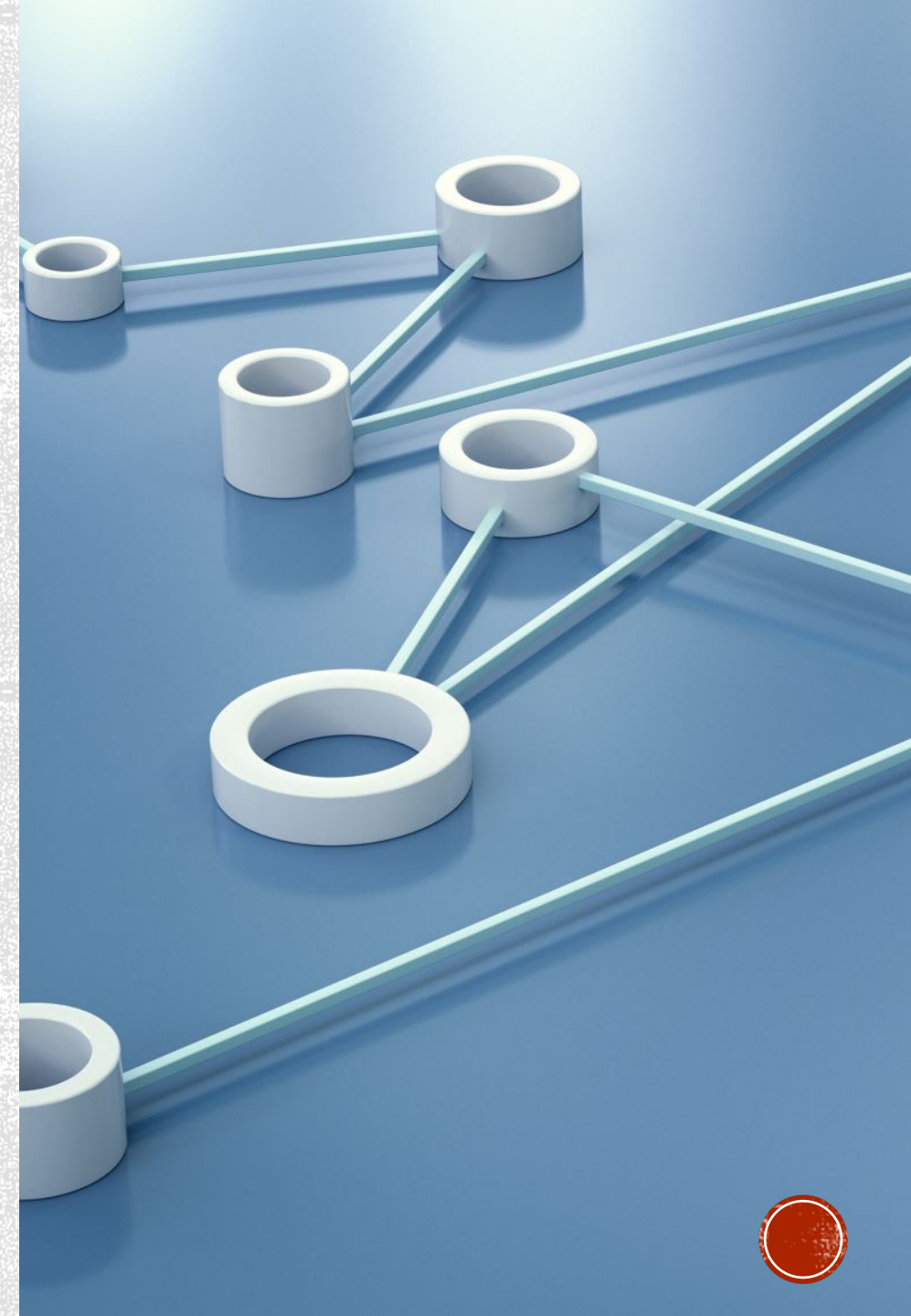


AWS GROUP PROJECT



THE PROCESS

- Hello, everyone! These are the PowerPoint slides of my part of the group project where I've worked on creating an AWS web server, using services like EC2 Instance, Application Load Balancer, and a Target Group.



CREATING WEB PAGE

Instances (2) Info

Search

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status
<input type="checkbox"/>	MyEC2Server1	i-08781eec4950ccd15	Running	t2.micro	2/2 checks passed	No alarms
<input type="checkbox"/>	MyEC2Server2	i-052169e448eedc2ee	Running	t2.micro	2/2 checks passed	No alarms

Select an instance

- Launched 2 EC2 Instances: MyEC2Server1 & MyEC2Server2.
- Configured the basics of creating ec2 instances including, enabled Auto-assign public ip, adding tags, creating a new security groups and adding the right ports. SSH, HTTP, HTTPS: source (Anywhere).
- In the user Data section added an HTML page served by Apache httpd webserver for both EC2Servers.



EC2 > Target groups

Target groups (1/1) [Info](#)

Search or filter target groups

<input checked="" type="checkbox"/>	Name	ARN	Port	Protocol	Target type	Load balancer
<input checked="" type="checkbox"/>	MyTargetGroup	arn:aws:elasticloadbalancing:us-east-1:735777069125:targetgroup/MyTargetGroup/8617163e8c2a9803	80	HTTP	Instance	MyLoadBalancer

MyTargetGroup

arn:aws:elasticloadbalancing:us-east-1:735777069125:targetgroup/MyTargetGroup/8617163e8c2a9803

Details | **Targets** | Monitoring | Health checks | Attributes | Tags

Registered targets (2/2)

Filter resources by property or value

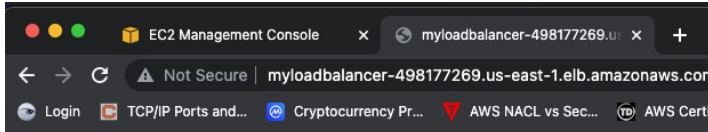
<input checked="" type="checkbox"/>	Instance ID	Name	Port	Zone	Health status
<input checked="" type="checkbox"/>	i-052169e448eecd2ee	MyEC2Server2	80	us-east-1d	healthy
<input checked="" type="checkbox"/>	i-08781eec4950ccd15	MyEC2Server1	80	us-east-1b	healthy

LOAD BALANCER

- created a Target Group and selected both instances to include the register targets.
- Created a Load Balancer and selected the ALB, Application Load Balancer.
- Configured the basics of creating ALB, like making sure its internet-facing, choosing IPV4, mapping all the AZ present, finally removing the default security group and adding the one I created in the EC2 security group.

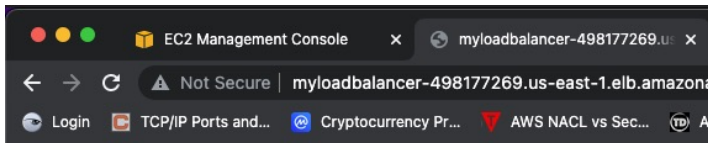


TESTING THE ELASTIC LOAD BALANCER



Welcome to GroupProject Server 1

- To test the Load Balancers working, make sure the Registered Targets are healthy.
- Then copy the DNS Name of the ALB and enter the address in the browser.
- You should see the index.html page content of web server 1 or web server 2.
- Refresh the page a few times to observe the index pages changing each time.



Welcome to GroupProject Server 2

