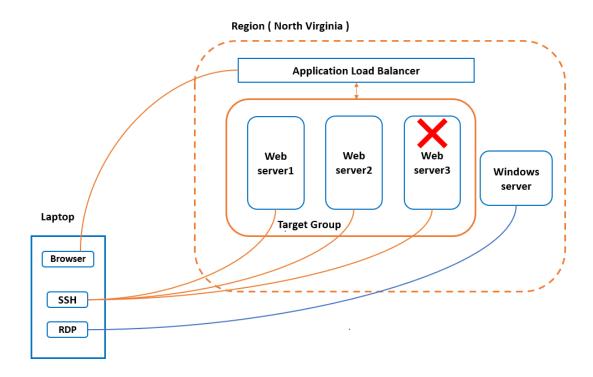
## EC2 | Multi AZ deployment | ALB

Deploy multiple EC2 instances in different AZs and experiment with load balancing, target groups and understand the impact of instance failure.

## **FINAL OUTCOME**



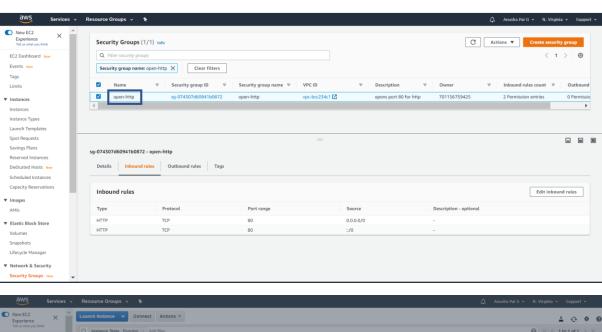
## How to do it?

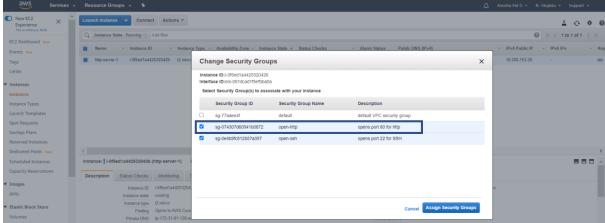
1. Create an Amazon AMI EC2 instance using the 7-step workflow (Name: http-server-1)



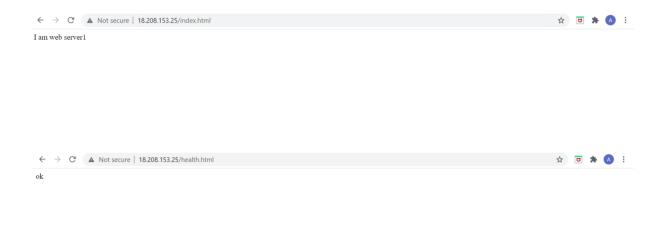
- a) SSH to the instance
- b) Install a simple http server

c) configure a new security group for http

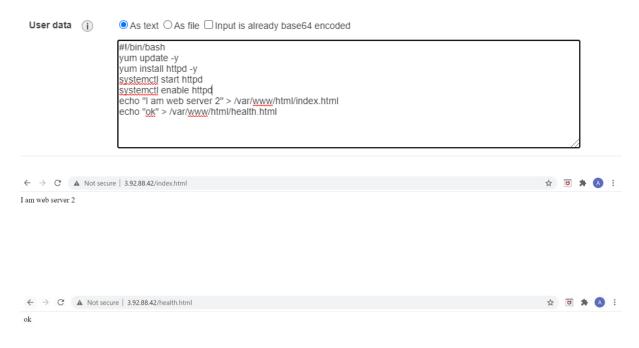




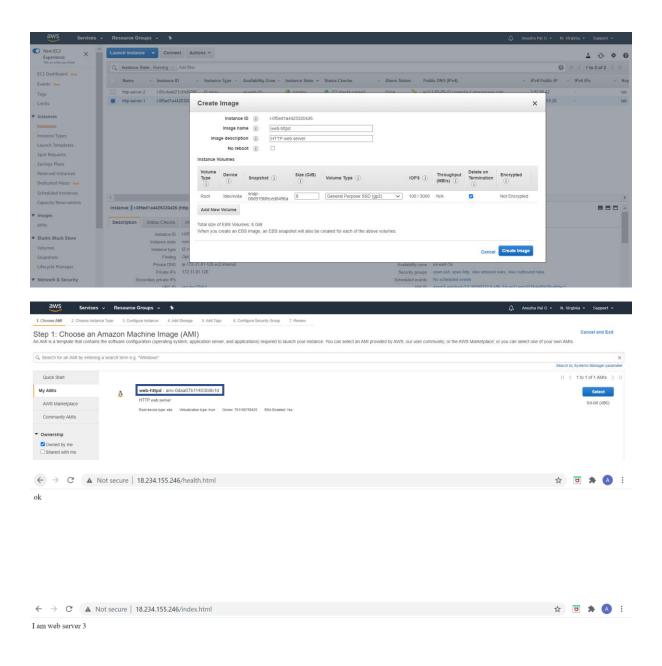
d) Test the web server from a browser tab



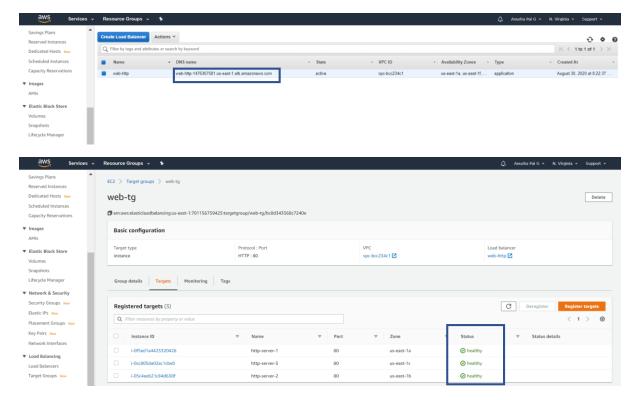
- 2. Create 2 more EC2 instances in different AZ
- a) Create first EC2 instance using "Launch more like this" option and create a boot strap script to configure http (Name: http-server-2)



b) Create second EC2 instance using an AMI created from httpd-server-1 (Name : http-server-3)



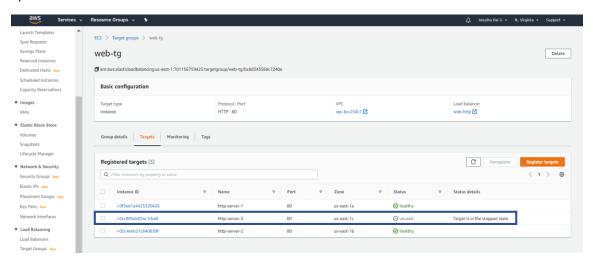
3. Grab a Load Balancer, create a Target Group and assign all these EC2 instances to the Target Group.



- a) Hit the LB multiple times and observe the Round Robin in action
- 4. Simulate failure by stopping the EC2 instance



a) See the effect on the LB



- b) Hit the LB again after the failure The unhealthy/unused instance will be evicted out from the LB.
- 5. Launch a windows instance using the 7-step flow and RDP to it.

