Link to the github page: https://github.com/Bryan-Az/CMPE-272-HW1

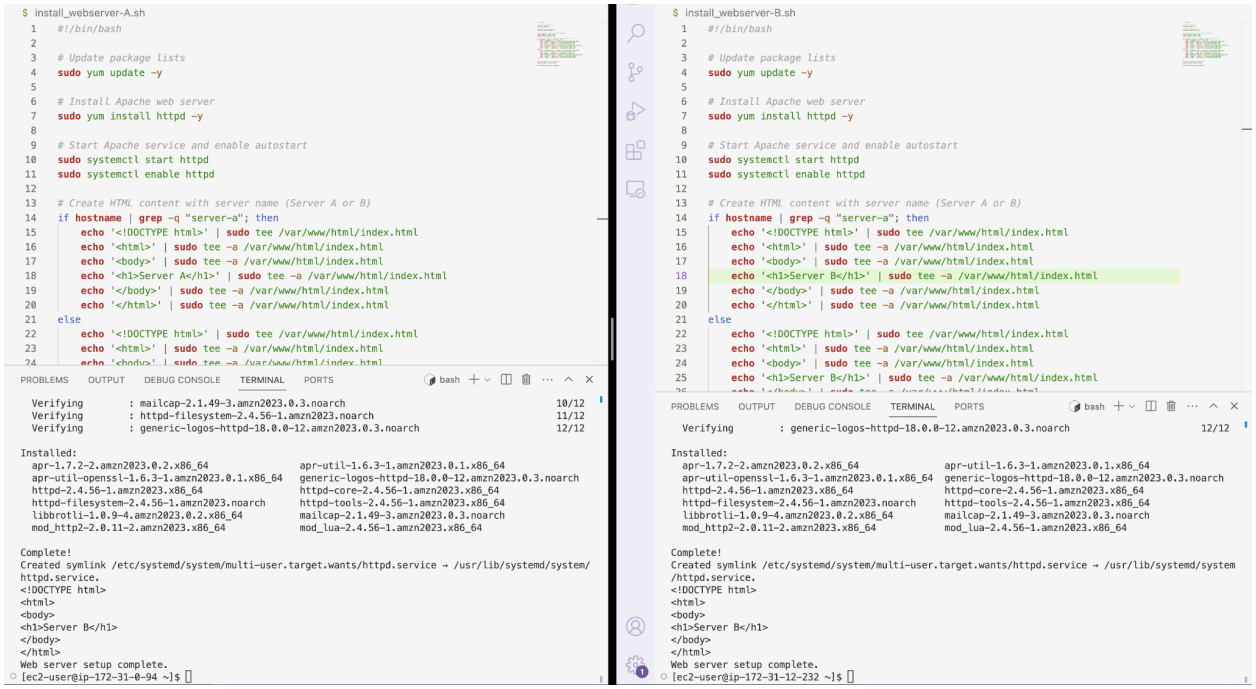
Step 1: Creating the Virtual Machines (Hosted on AWS - Couldn't access the dCloud on Cisco)

CMPE-272-HW1	i-03ce39944c9634526	Running	t2.micro	Initializing	No alarms	+	us-east-2a	ec2-3-133-155-233.us-...	3.133.155.233	–
Select instance: CMPE-272-HW1	i-021eb3438f969cc4b	Running	t2.micro	Initializing	No alarms	+	us-east-2a	ec2-3-133-151-38.us-e...	3.133.151.38	–
CMPE-272-HW1	i-031c6f80d59afa226	Running	t2.micro	Initializing	No alarms	+	us-east-2a	ec2-3-135-191-51.us-e...	3.135.191.51	–

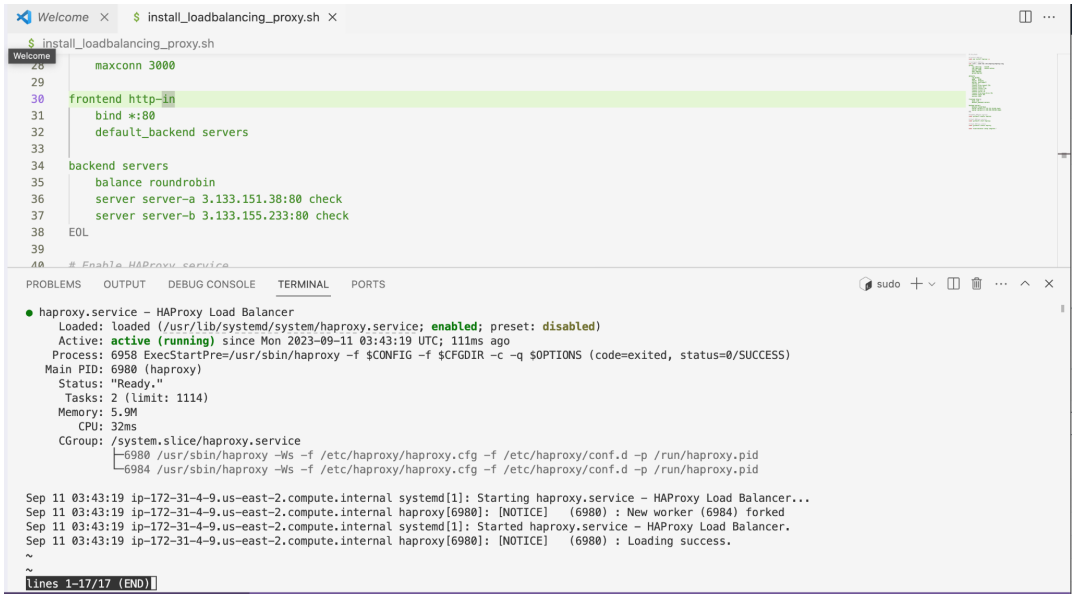
Step 2: Opening the port 8080 on all instances within the security group

Name	Security group rule...	IP version	Type	Protocol	Port range	Source	Description
–	sgr-0ebc57f2e09b9d49d	IPv4	HTTP	TCP	80	0.0.0.0/0	–
–	sgr-0151419834a7da...	IPv4	SSH	TCP	22	0.0.0.0/0	–
–	sgr-0a65f63f553f2cc81	IPv4	Custom TCP	TCP	8080	0.0.0.0/0	To communica
–	sgr-09746edb7fe723927	IPv4	HTTPS	TCP	443	0.0.0.0/0	–

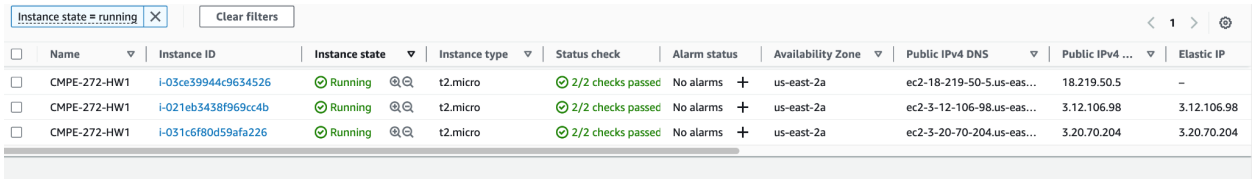
Step 3: Starting the web server within the two load-balancing ec2 server instances



Step 4: Setting up the load balancing HAProxy service on the main server



Step 5: Configuring Elastic IP addresses (EIPs) for the load-balancing servers to point to the main server (HAProxy) - ignore the ips in the cfg above - those were replaced with the elastic ips.



Step 6: Checking the output of requesting the main server's IP.