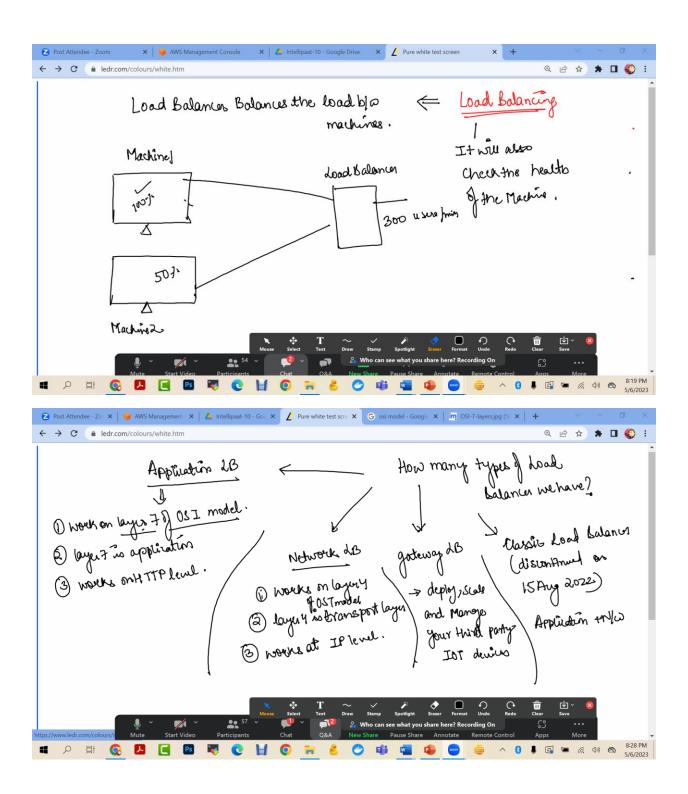
#### Load balancer



OSI model:

7	Application Layer	Human-computer interaction layer, where applications can access the network services
6	Presentation Layer	Ensures that data is in a usable format and is where data encryption occurs
5	Session Layer	Maintains connections and is responsible for controlling ports and sessions
4	Transport Layer	Transmits data using transmission protocols including TCP and UDP
3	Network Layer	Decides which physical path the data will take
2	Data Link Layer	Defines the format of data on the network
1	Physical Layer	Transmits raw bit stream over the physical medium

## Case study:

We will two servers ..one server will have hello world website and another server will have hi dear website .

Now we will loadbalancer to balance the load between these two machines ...

1) We will launch two Linux machines with two different websites

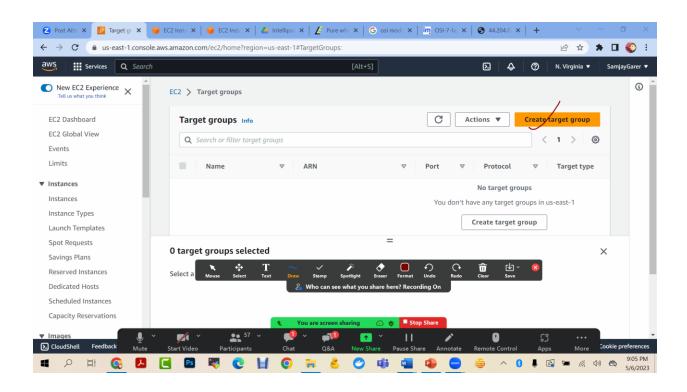
Launch two linux machines:

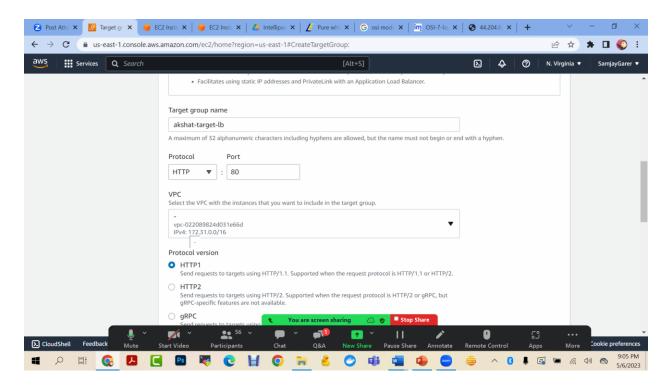
In machines 1:

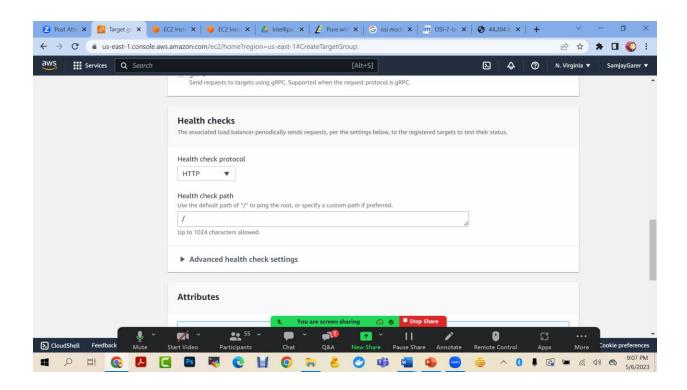
```
sudo su
yum install httpd -y
service httpd start
cd var/www/html
cat > index.html (press enter)
hello world
(ctrl d to exit)
##
In second machine
sudo su
yum install httpd -y
service httpd start
cd var/www/html
cat > index.html (press enter)
hi dear
(ctrl d to exit)
```

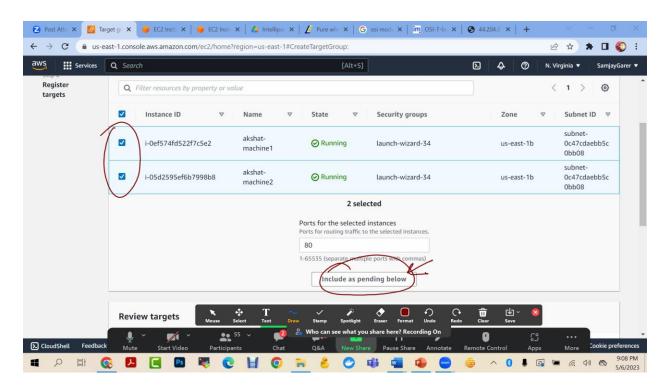
# Now its turn to create a load balancer

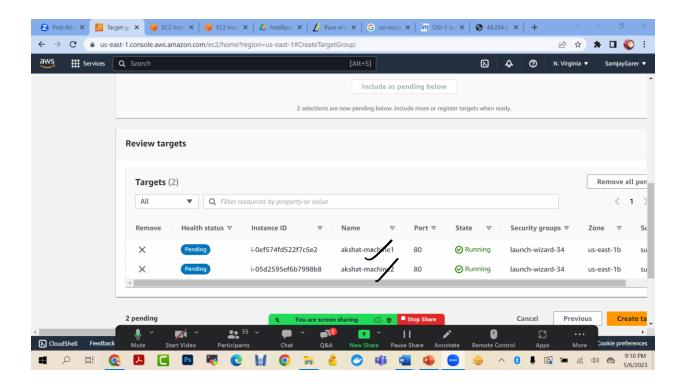
For that first we have to create the target group to tell which machines would be targeted by the load balancer



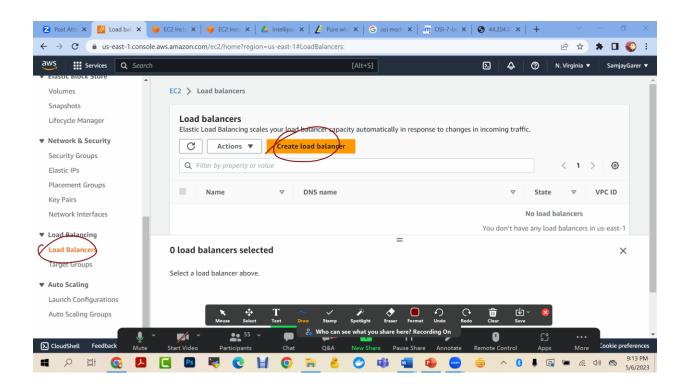


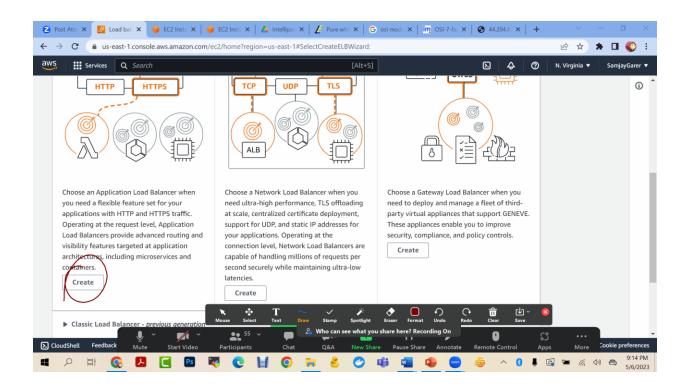


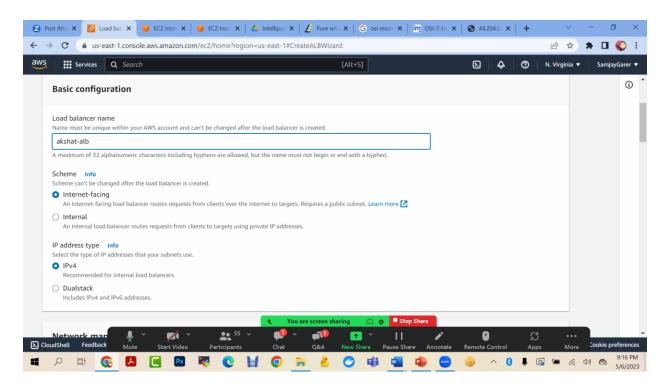


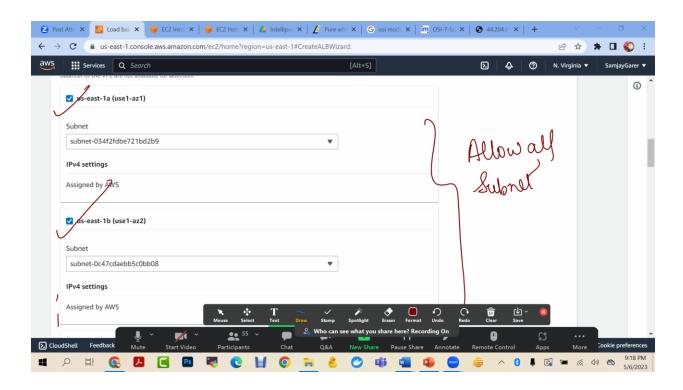


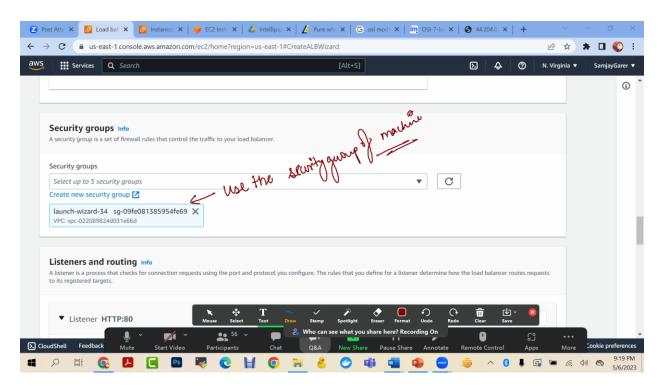
## Create target



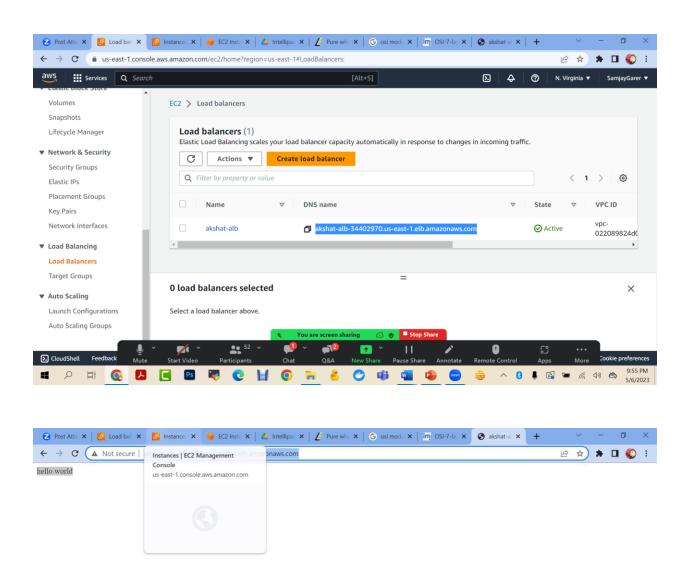








#### Create load balancer





## Refresh you will see both websites





hello world

