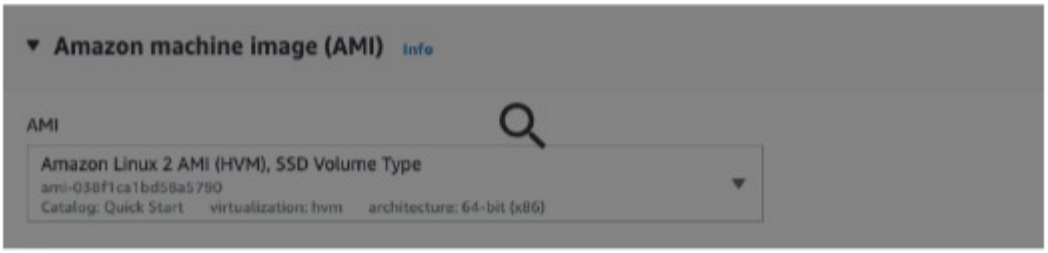
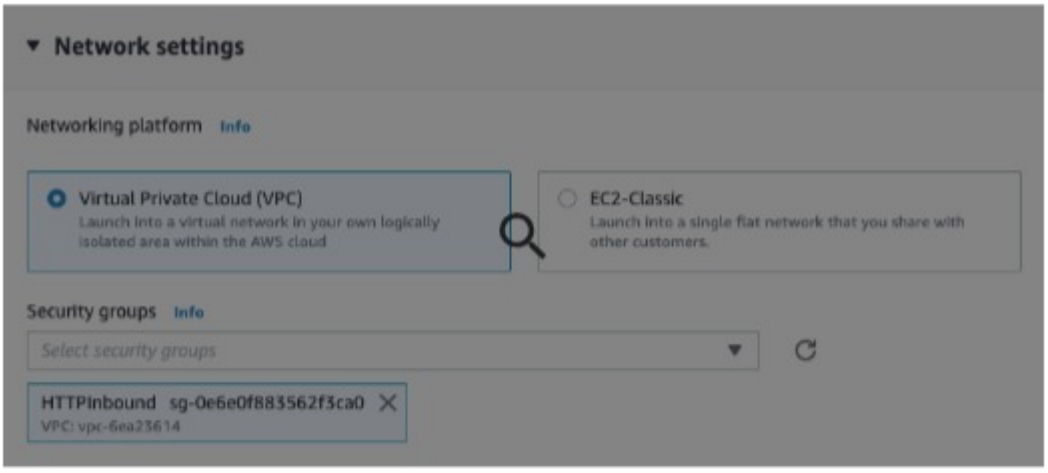
Example approach

1. In the **AWS Management Console**, go to **Services** and click **EC2**
2. In the left-hand menu, choose **Launch Templates** and click **Create launch template**
3. For **Launch template name** enter "HTTPWebServer". Under **Amazon machine image** select the **Amazon Linux 2 AMI (HVM)** using the **64-bit (x86)** architecture



4. Under **Instance type** select **t2.micro**
5. Under **Network Settings** select the **HTTPInbound** security group



6. Under **Advanced details** copy and paste the code in the **user-data-httpd.sh** file into the **User data** area
7. You must then edit the bucket name on line 7 by entering the name of the bucket created earlier. It should now look like this (but with YOUR bucket name):

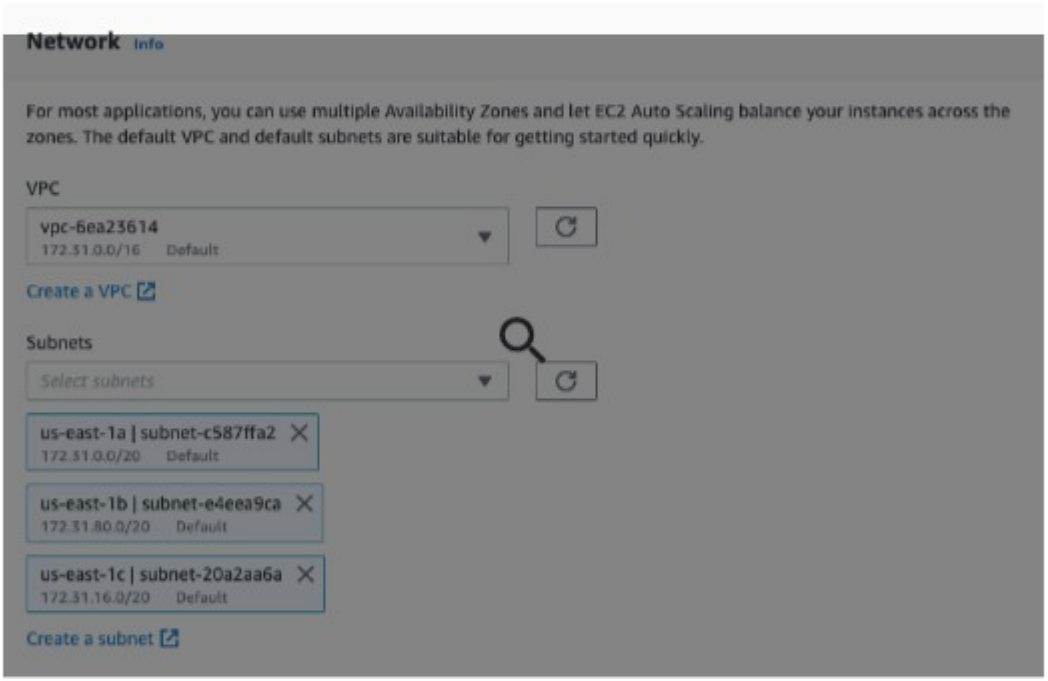
User data Info

```
#!/bin/bash
yum update -y
yum install httpd -y
systemctl start httpd
systemctl enable httpd
cd /var/www/html
```

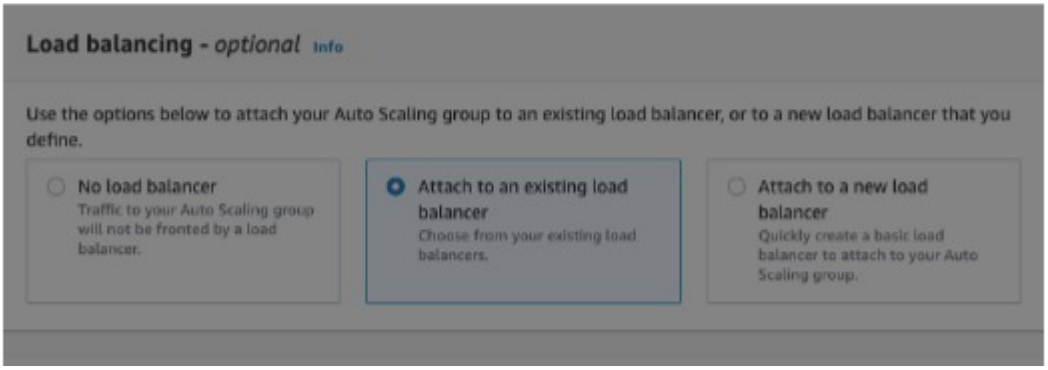
```
curl https://udemy-lab-s3-4329sfe3x.s3.amazonaws.com/index.txt --output index.txt
EC2AZ=$(curl -s http://169.254.169.254/latest/meta-data/placement/availability-zone)
sed "s/INSTANCEID/$EC2AZ/" index.txt > index.html
```

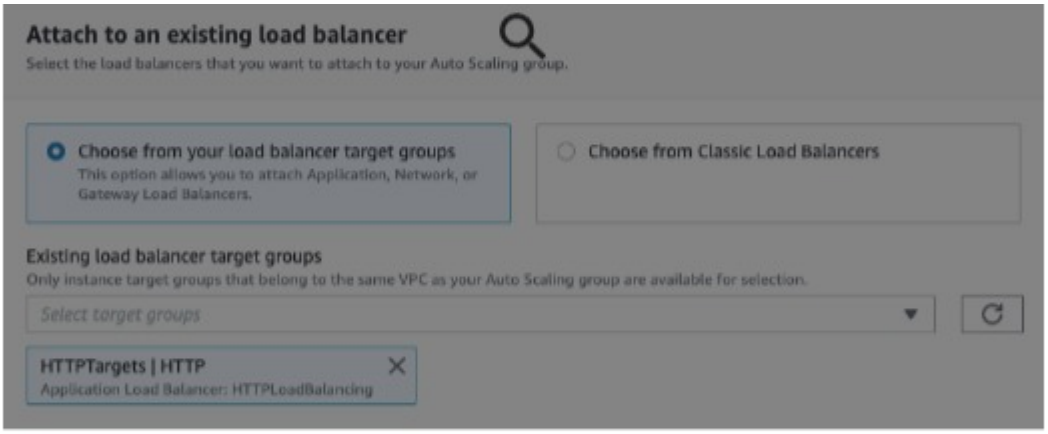
☐ User data has already been base64 encoded

8. Click **Create launch template**
9. Back in the EC2 Management Console, in the left-hand menu, select **Auto Scaling Groups** and then **Create Auto Scaling group**
10. For **Auto Scaling group name** enter "MyWebServers" and under **Launch template** select the **HTTPWebServer** launch template and then click **Next**
11. Under **Network** add the same subnets (at least three) that you selected for the load balancer and then click **Next**

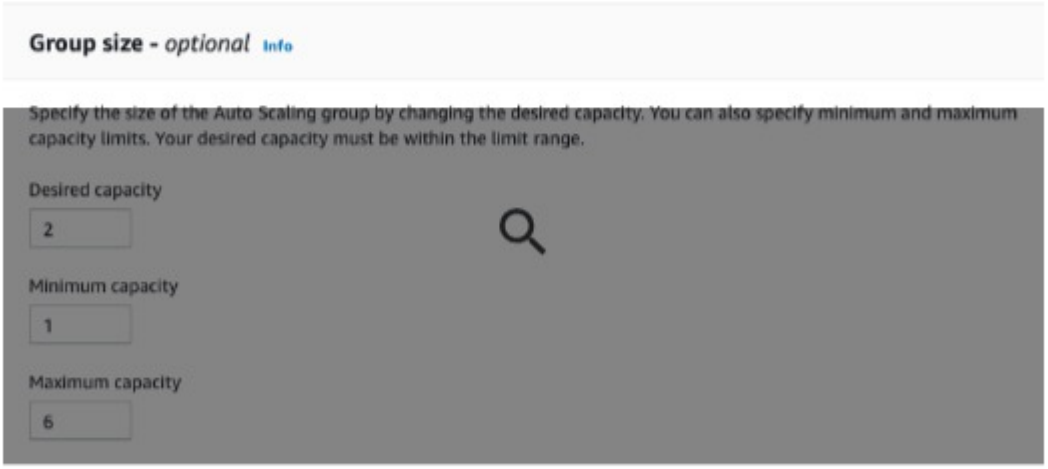


12. Under **Load balancing** select **Attach to an existing load balancer** and the select the **HTTPTargets** target group and then click **Next**

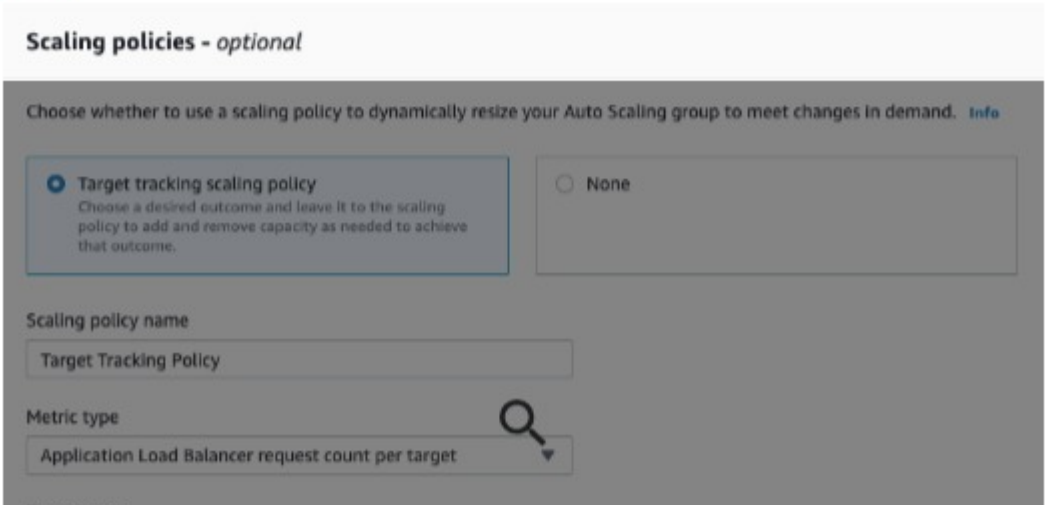


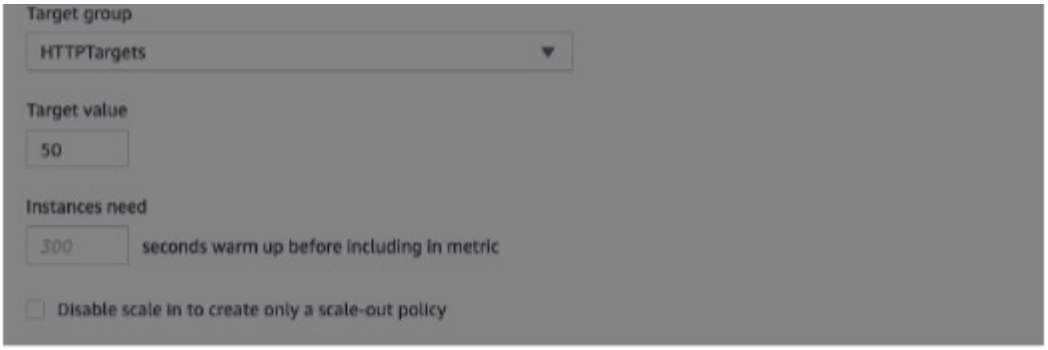


13. Set the **Group size** to the following values:
    a. Desired capacity = 2
    b. Minimum capacity = 1
    c. Maximum capacity = 6



14. Under **Scaling policies** select **Target tracking scaling policy** and for **Metric type** select **Application Load Balancer request count per target**. Select the **HTTPTargets** target group and enter the **Target value** as "5"





15. Then click **Next** three times and then finally **Create Auto Scaling group**
