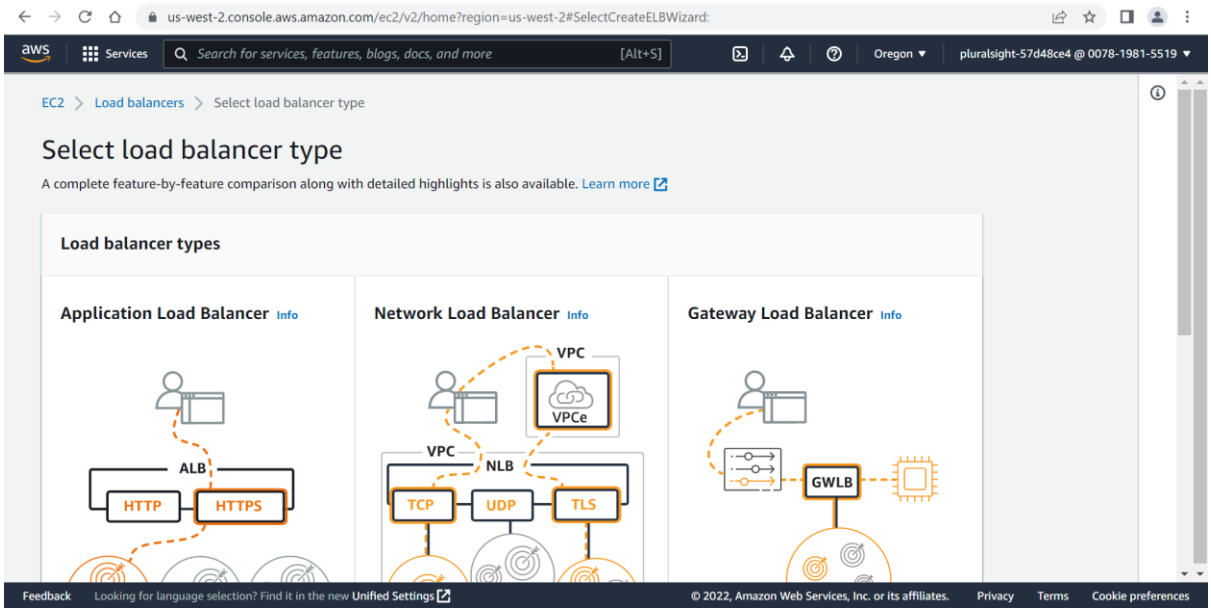
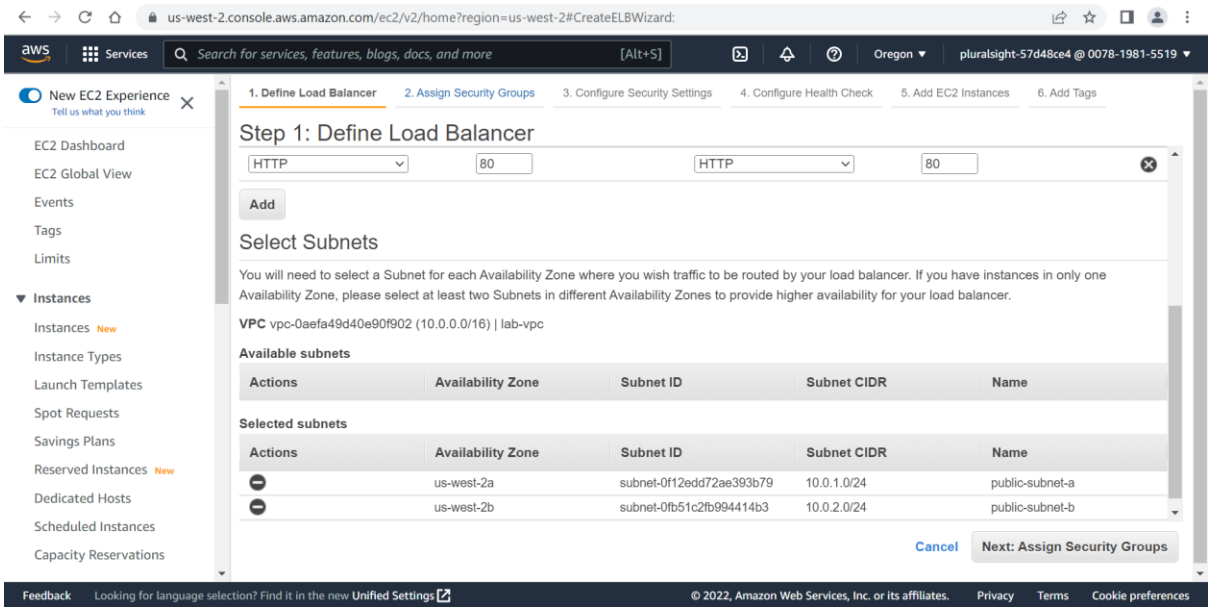
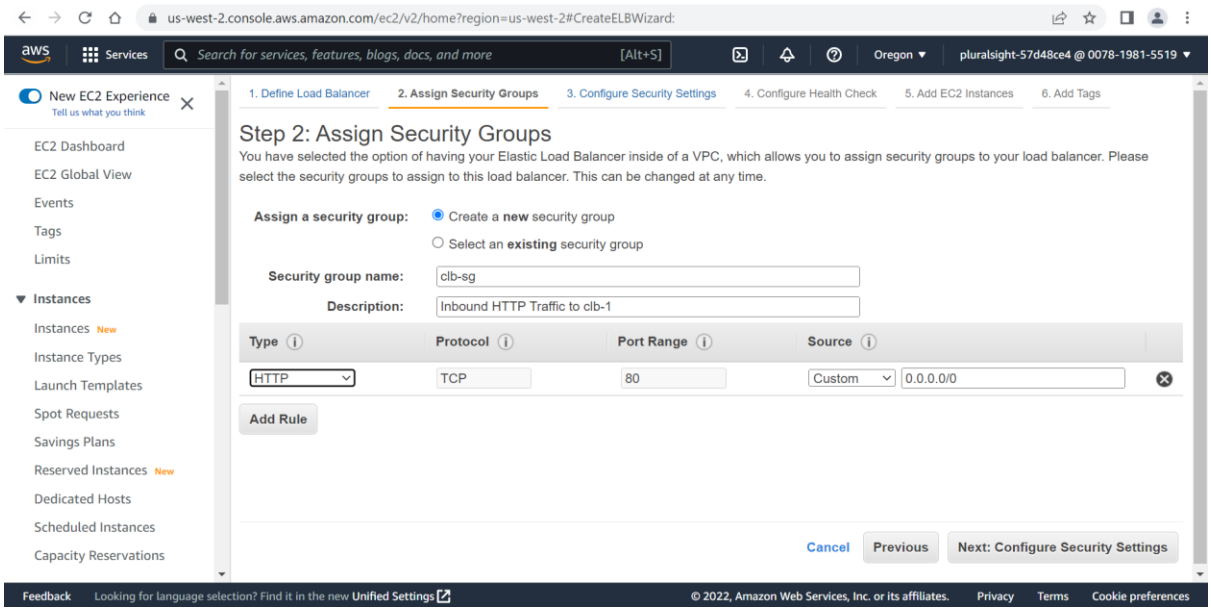
Implement a Classic Load Balancer for HTTP Traffic on AWS

1. Create a Classic Load Balancer






us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#CreateELBWizard:
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Scheduled Instances
Capacity Reservations
1. Define Load Balancer
2. Assign Security Groups
3. Configure Security Settings
4. Configure Health Check
5. Add EC2 Instances
6. Add Tags
Step 2: Assign Security Groups
You have selected the option of having your Elastic Load Balancer inside of a VPC, which allows you to assign security groups to your load balancer. Please select the security groups to assign to this load balancer. This can be changed at any time.
Assign a security group:
Create a new security group
Select an existing security group
Security group name:
clb-sg
Description:
Inbound HTTP Traffic to clb-1
Type
Protocol
Port Range
Source
HTTP
TCP
80
Custom
0.0.0.0/0
Add Rule
Cancel
Previous
Next: Configure Security Settings
Feedback
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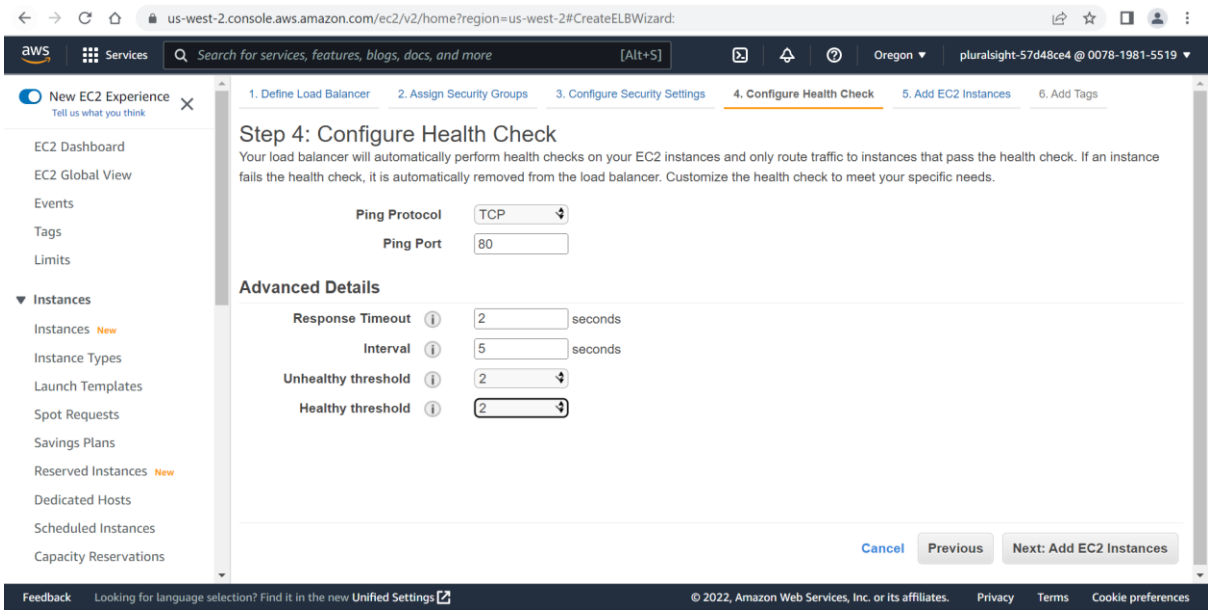
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1. Define Load Balancer
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Step 4: Configure Health Check
Your load balancer will automatically perform health checks on your EC2 instances and only route traffic to instances that pass the health check. If an instance fails the health check, it is automatically removed from the load balancer. Customize the health check to meet your specific needs.
Ping Protocol
TCP
Ping Port
80
Advanced Details
Response Timeout
2
seconds
Interval
5
seconds
Unhealthy threshold
2
Healthy threshold
2
Cancel
Previous
Next: Add EC2 Instances
Feedback
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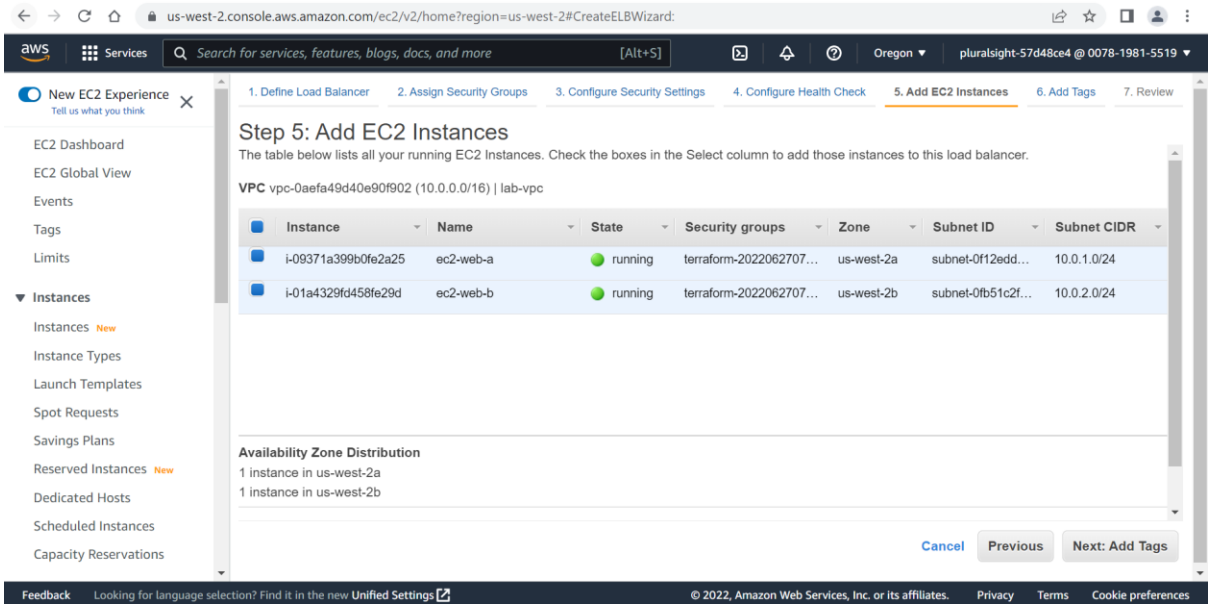
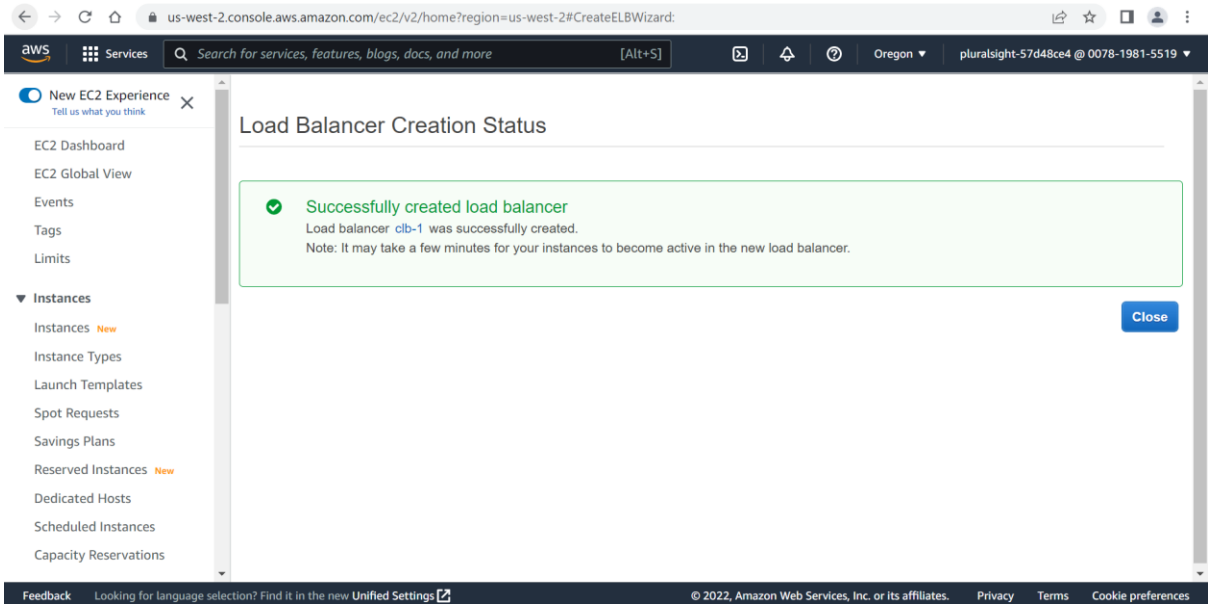
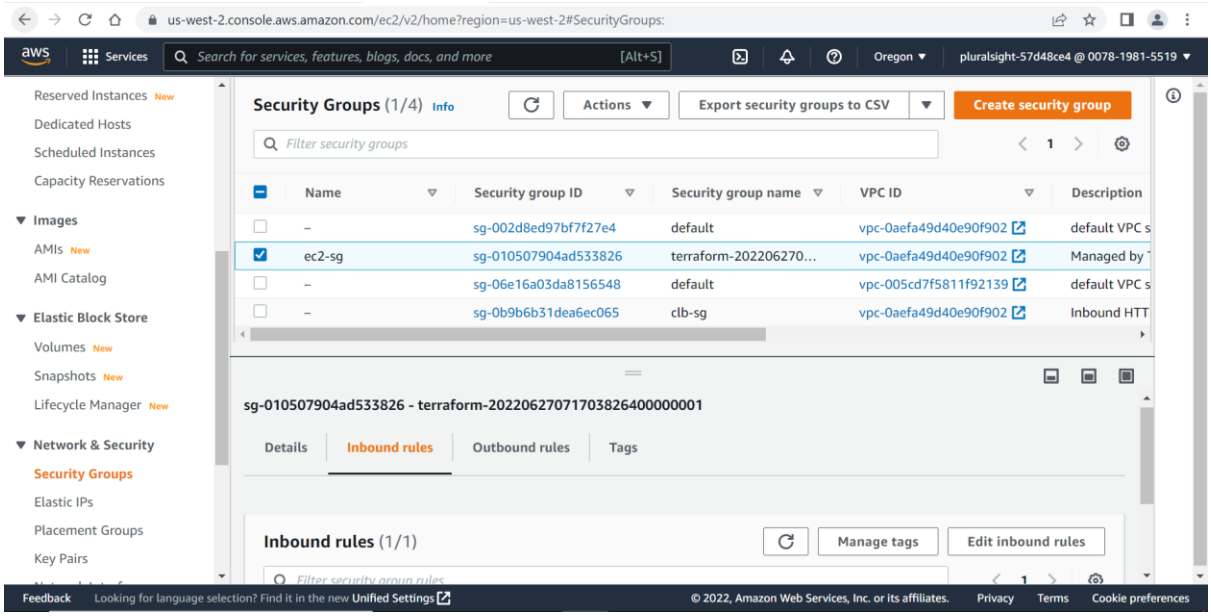




2. Configure Security Groups for HTTP Traffic


us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#SecurityGroups:
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Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs New
AMI Catalog
Elastic Block Store
Volumes New
Snapshots New
Lifecycle Manager New
Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Security Groups (1/4) Info
Actions
Export security groups to CSV
Create security group
Filter security groups
Name
Security group ID
Security group name
VPC ID
Description
– sg-002d8ed97bf7f27e4 default vpc-0aefa49d40e90f902 default VPC s
ec2-sg sg-010507904ad533826 terraform-202206270... vpc-0aefa49d40e90f902 Managed by
– sg-06e16a03da8156548 default vpc-005cd7f5811f92139 default VPC s
– sg-0b9b6b31dea6ec065 clb-sg vpc-0aefa49d40e90f902 Inbound HTT
sg-010507904ad533826 - terraform-20220627071703826400000001
Details
Inbound rules
Outbound rules
Tags
Inbound rules (1/1)
Manage tags
Edit inbound rules
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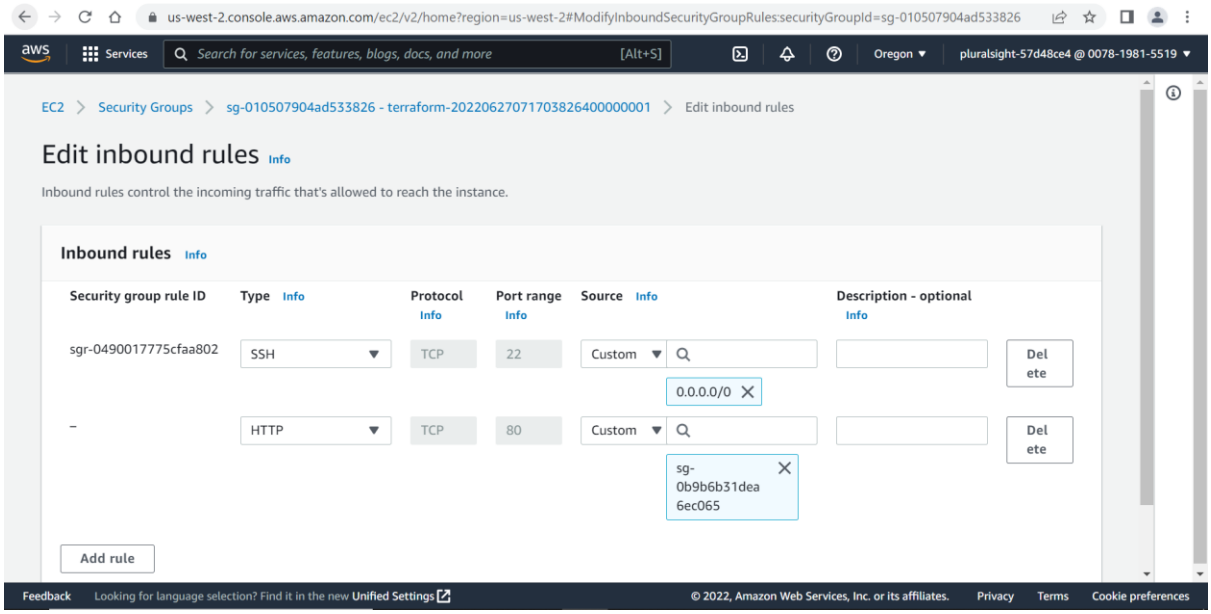
us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#ModifyInboundSecurityGroupRules:securityGroupId=sg-010507904ad533826
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EC2 > Security Groups > sg-010507904ad533826 - terraform-20220627071703826400000001 > Edit inbound rules
Edit inbound rules Info
Inbound rules control the incoming traffic that's allowed to reach the instance.
Inbound rules Info
Security group rule ID
Type Info
Protocol Info
Port range Info
Source Info
Description - optional Info
sgr-0490017775cfaa802 SSH TCP 22 Custom 0.0.0.0/0 Delete
– HTTP TCP 80 Custom sg-0b9b6b31dea6ec065 Delete
Add rule
Feedback
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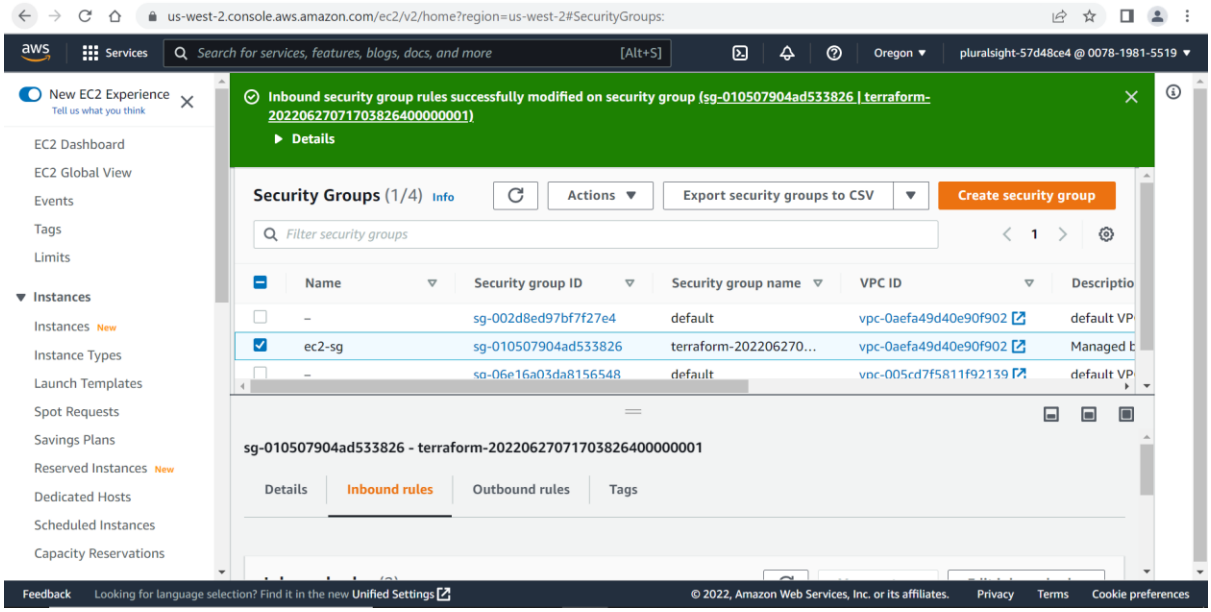
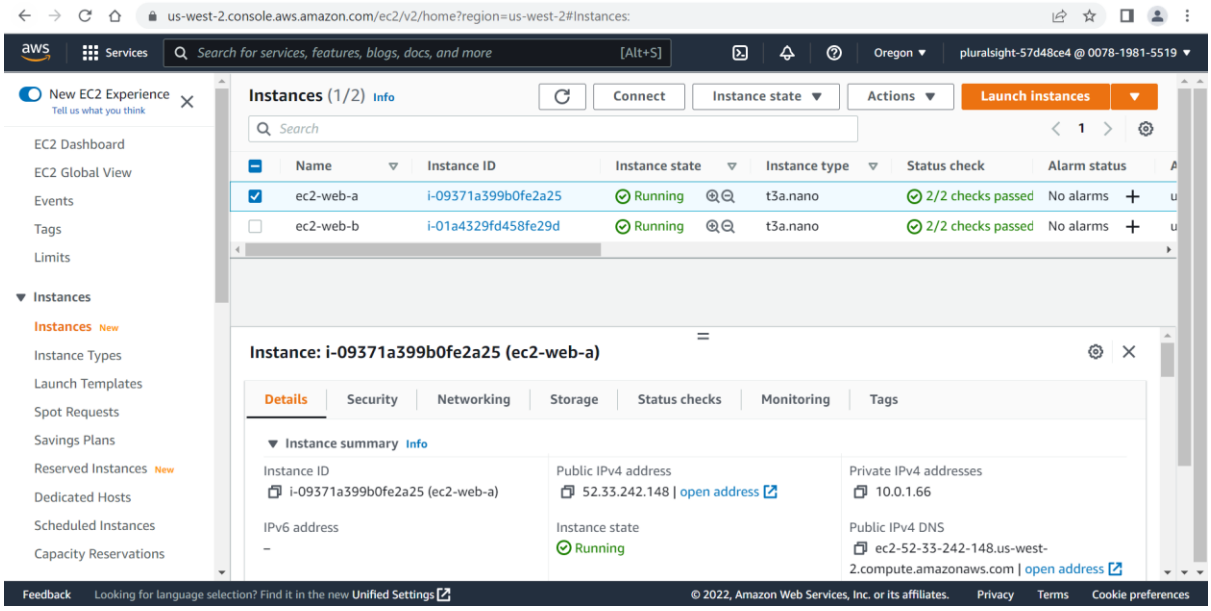
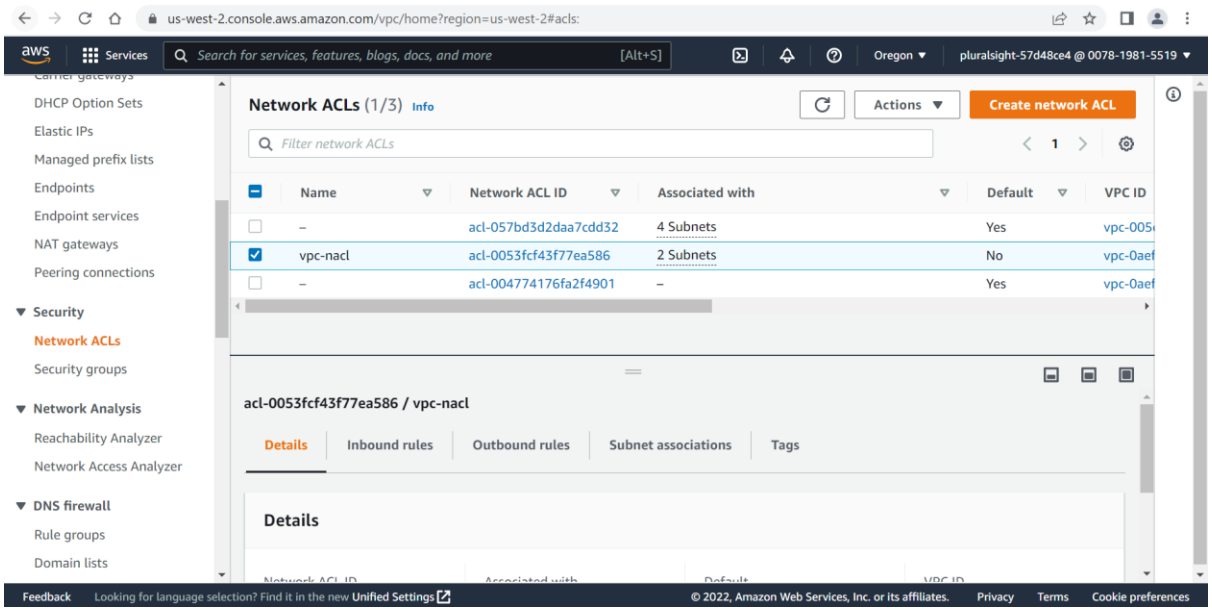


3. Allow HTTP Traffic for the Internet




us-west-2.console.aws.amazon.com/vpc/home?region=us-west-2#acls:
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DHCP Option Sets
Elastic IPs
Managed prefix lists
Endpoints
Endpoint services
NAT gateways
Peering connections
Security
Network ACLs
Security groups
Network Analysis
Reachability Analyzer
Network Access Analyzer
DNS firewall
Rule groups
Domain lists
Network ACLs (1/3) Info
Actions
Create network ACL
Filter network ACLs
Name
Network ACL ID
Associated with
Default
VPC ID
– acl-057bd3d2daa7cdd32 4 Subnets Yes
vpc-nacl acl-0053fcf43f77ea586 2 Subnets No
– acl-004774176fa2f4901 – Yes
acl-0053fcf43f77ea586 / vpc-nacl
Details
Inbound rules
Outbound rules
Subnet associations
Tags
Details
Feedback
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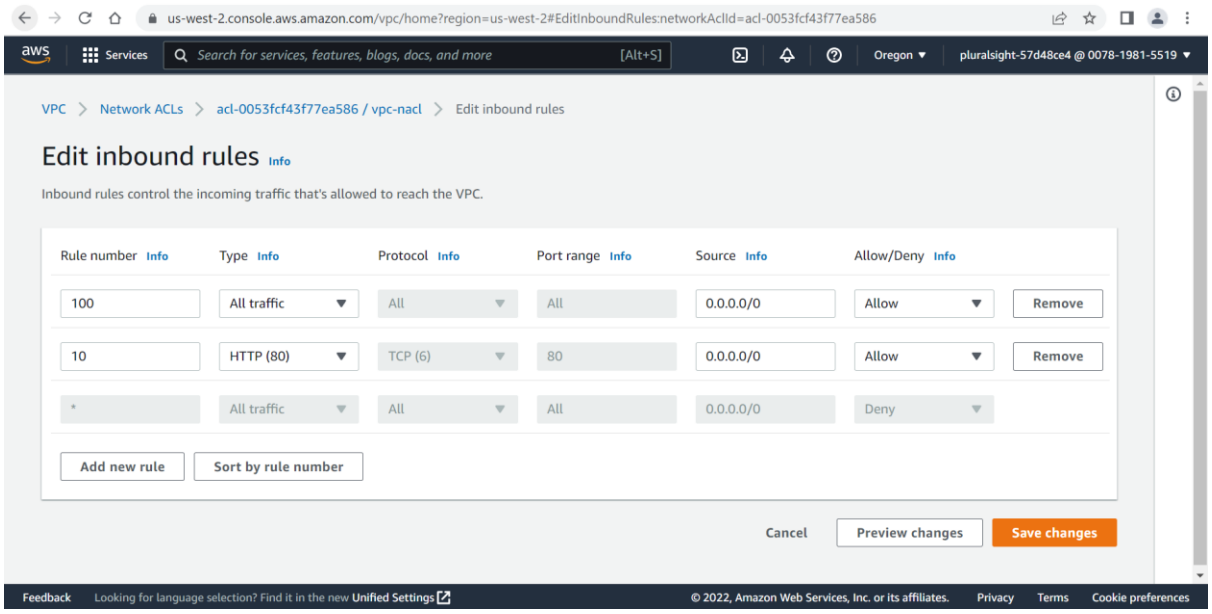
us-west-2.console.aws.amazon.com/vpc/home?region=us-west-2#EditInboundRules:networkAclId=acl-0053fcf43f77ea586
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VPC > Network ACLs > acl-0053fcf43f77ea586 / vpc-nacl > Edit inbound rules
Edit inbound rules Info
Inbound rules control the incoming traffic that's allowed to reach the VPC.
Rule number Info
Type Info
Protocol Info
Port range Info
Source Info
Allow/Deny Info
100 All traffic All All 0.0.0.0/0 Allow Remove
10 HTTP (80) TCP (6) 80 0.0.0.0/0 Allow Remove
* All traffic All All 0.0.0.0/0 Deny
Add new rule
Sort by rule number
Cancel
Preview changes
Save changes
Feedback
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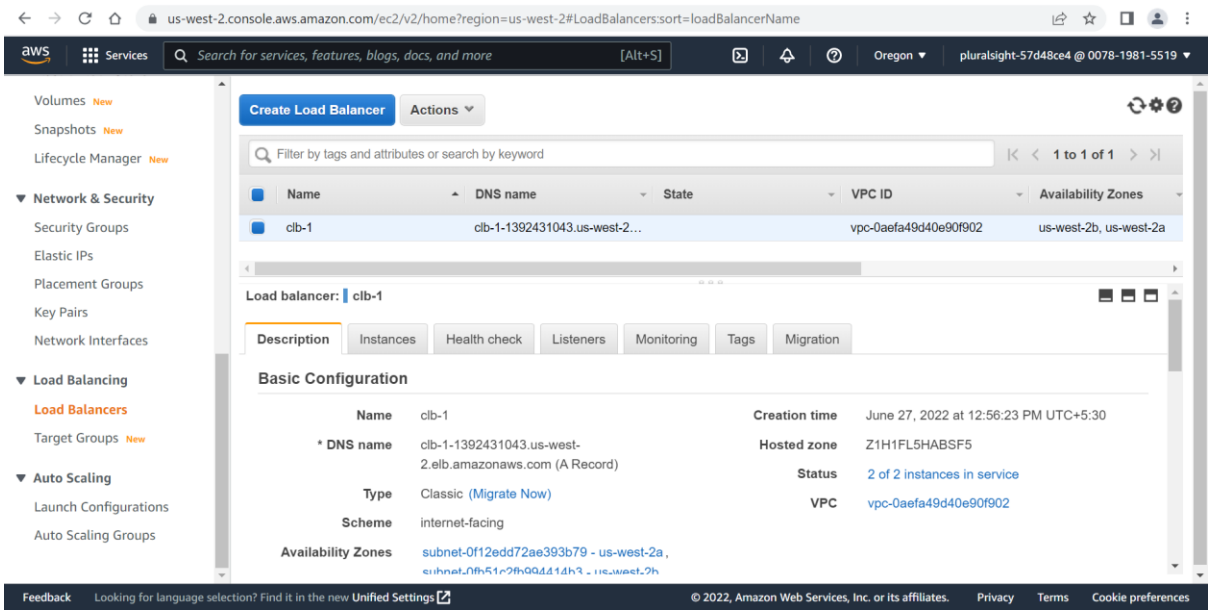
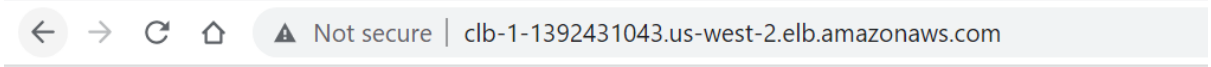


Running on ecw-web-a | instance-id i-09371a399b0fe2a25



Running on ec2-web-b | instance-id i-01a4329fd458fe29d