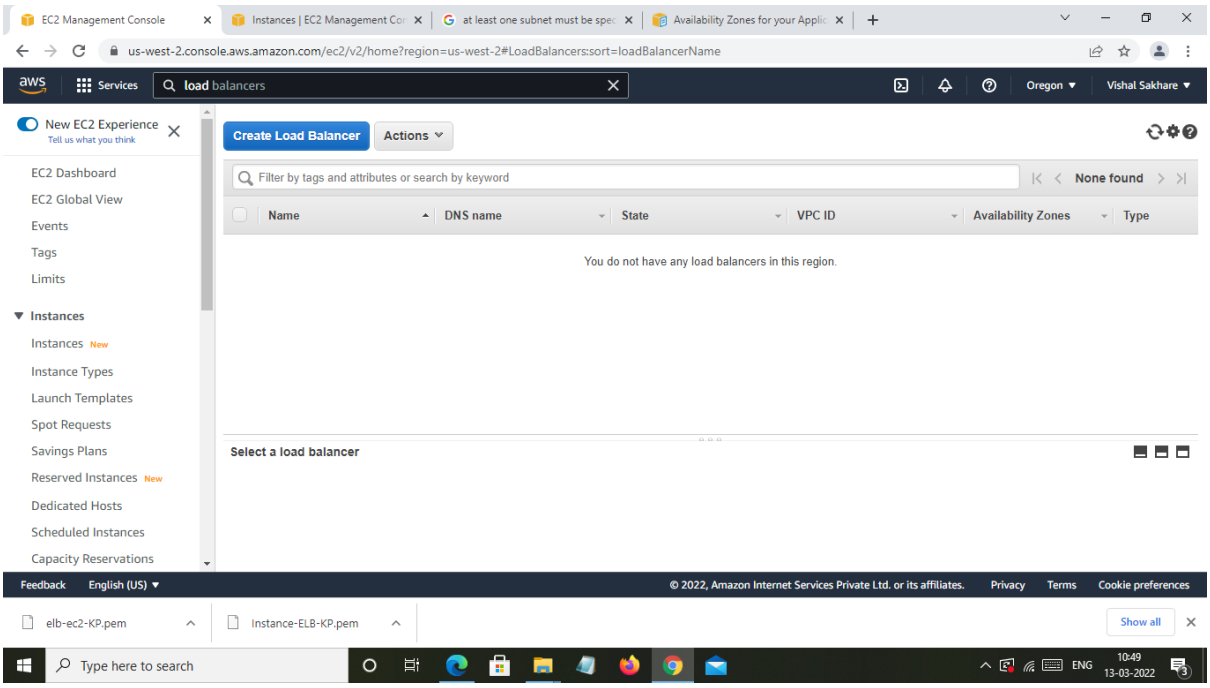
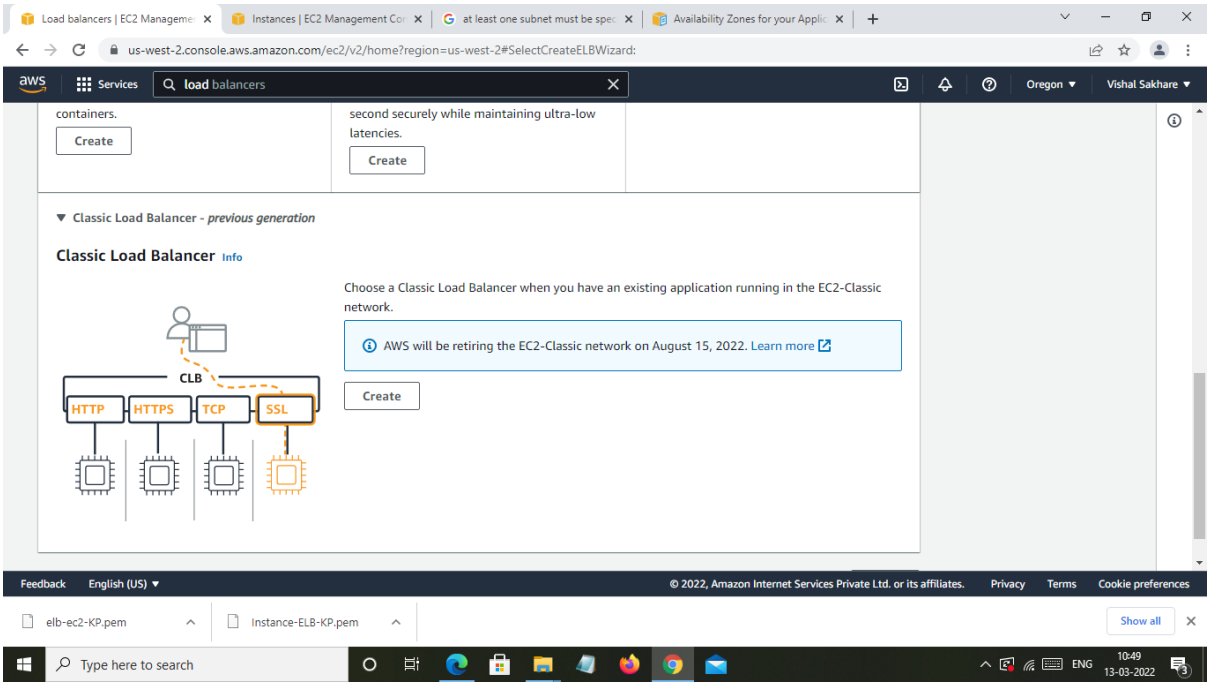
Module-3: ELB Assignment - 1

You have been asked to:

1. Create a Classic Load Balancer and register 3 EC2 instances with different web pages running in them
2. Migrate the Classic Load Balancer into an Application Load Balancer

- Create a Classic Load Balancer and register 3 EC2 instances with different web pages running in them




Load balancers | EC2 Manageme
Instances | EC2 Management Cor
at least one subnet must be spec
Availability Zones for your Applic
us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#SelectCreateELBWizard:
aws
Services
load balancers
Oregon
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containers.
Create
second securely while maintaining ultra-low latencies.
Create
Classic Load Balancer - previous generation
Classic Load Balancer Info
Choose a Classic Load Balancer when you have an existing application running in the EC2-Classic network.
AWS will be retiring the EC2-Classic network on August 15, 2022. Learn more
Create
CLB
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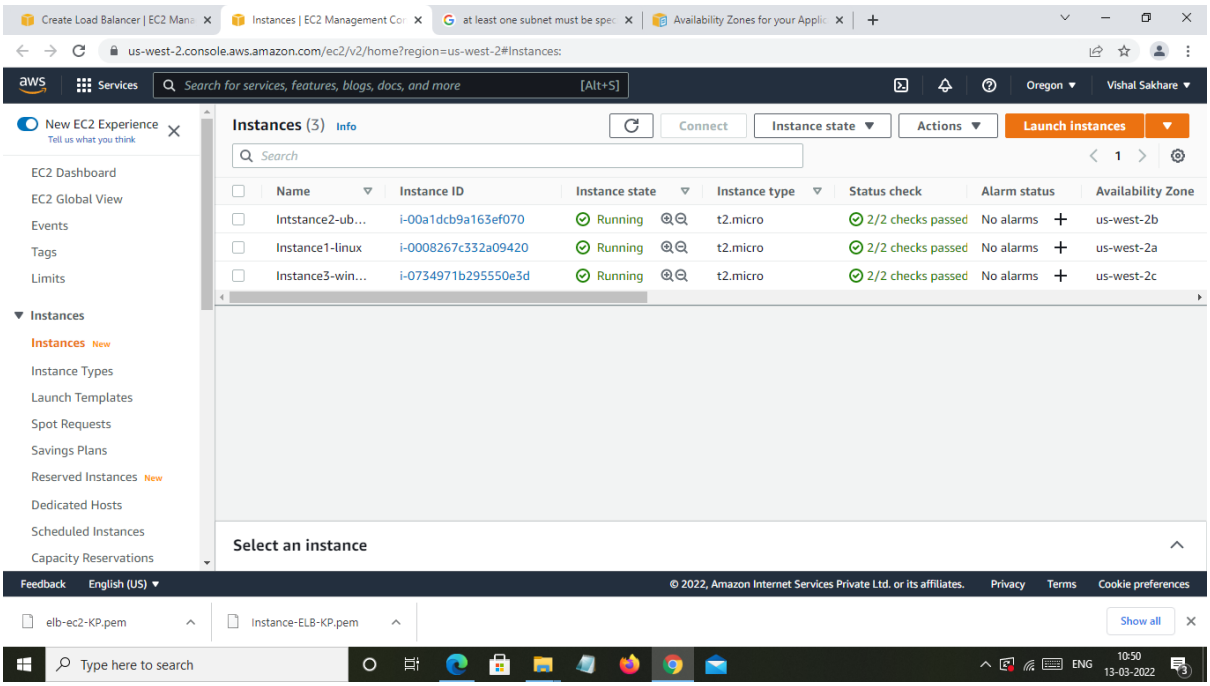
Create Load Balancer | EC2 Mana
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Availability Zones for your Applic
us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:
aws
Services
Search for services, features, blogs, docs, and more
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Tell us what you think
EC2 Dashboard
EC2 Global View
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Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Instances (3) Info
Connect
Instance state
Actions
Launch instances
Search
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Intstance2-ub...
i-00a1dcb9a163ef070
Running
t2.micro
2/2 checks passed
No alarms
us-west-2b
Instance1-linux
i-0008267c332a09420
Running
t2.micro
2/2 checks passed
No alarms
us-west-2a
Instance3-win...
i-0734971b295550e3d
Running
t2.micro
2/2 checks passed
No alarms
us-west-2c
Select an instance
Feedback
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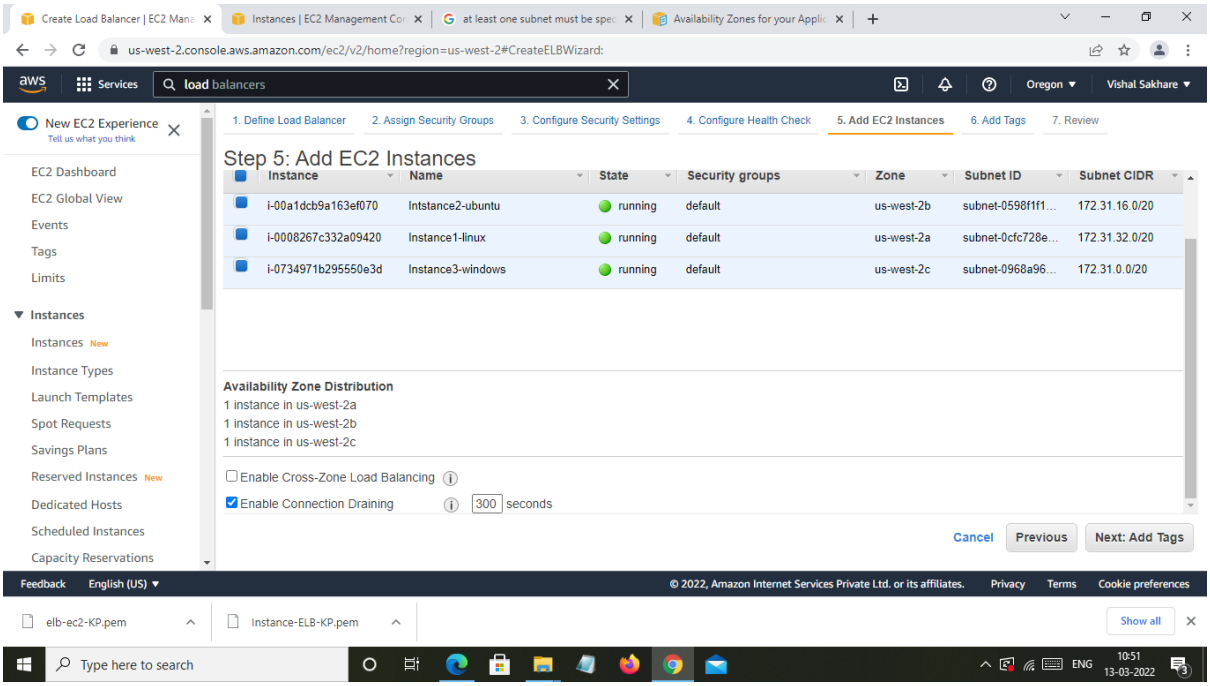
Create Load Balancer | EC2 Mana
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at least one subnet must be spec
Availability Zones for your Applic
us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#CreateELBWizard:
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Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
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Dedicated Hosts
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
7. Review
Step 5: Add EC2 Instances
Instance
Name
State
Security groups
Zone
Subnet ID
Subnet CIDR
i-00a1dcb9a163ef070
Intstance2-ubuntu
running
default
us-west-2b
subnet-0598f1f1...
172.31.16.0/20
i-0008267c332a09420
Instance1-linux
running
default
us-west-2a
subnet-0cfc728e...
172.31.32.0/20
i-0734971b295550e3d
Instance3-windows
running
default
us-west-2c
subnet-0968a96...
172.31.0.0/20
Availability Zone Distribution
1 instance in us-west-2a
1 instance in us-west-2b
1 instance in us-west-2c
Enable Cross-Zone Load Balancing
Enable Connection Draining
300
seconds
Cancel
Previous
Next: Add Tags
Feedback
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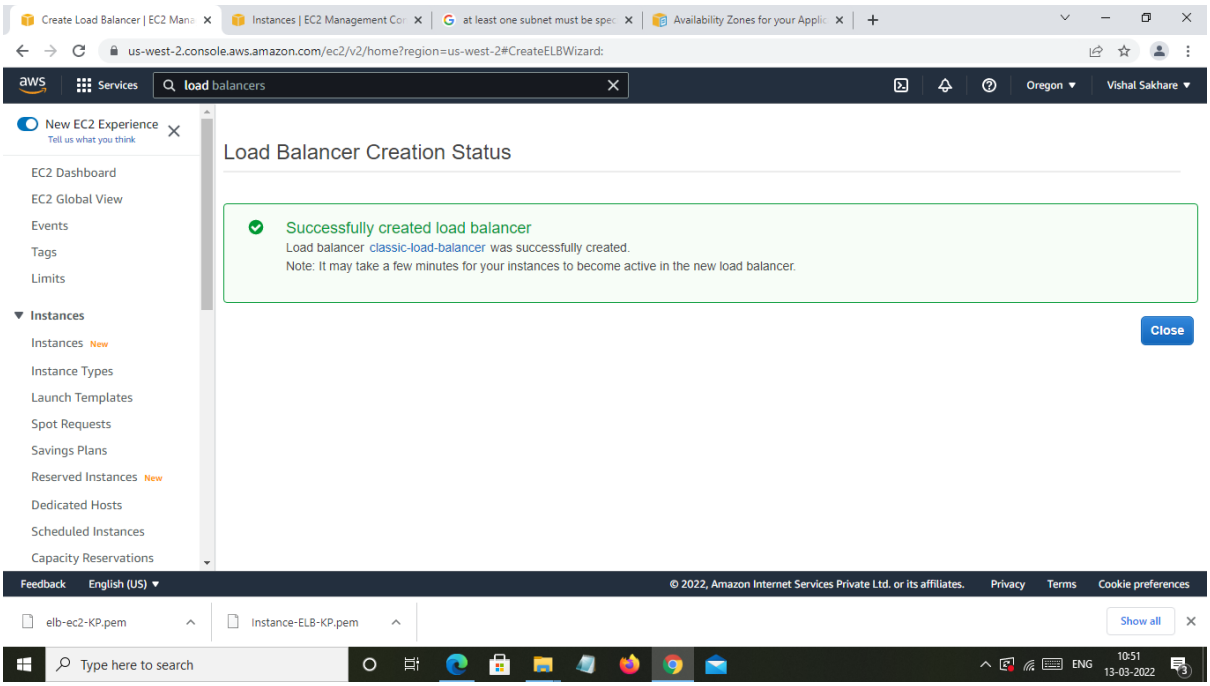
Create Load Balancer | EC2 Mana
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Availability Zones for your Applic
us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#CreateELBWizard:
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Dedicated Hosts
Scheduled Instances
Capacity Reservations
Load Balancer Creation Status
Successfully created load balancer
Load balancer classic-load-balancer was successfully created.
Note: It may take a few minutes for your instances to become active in the new load balancer.
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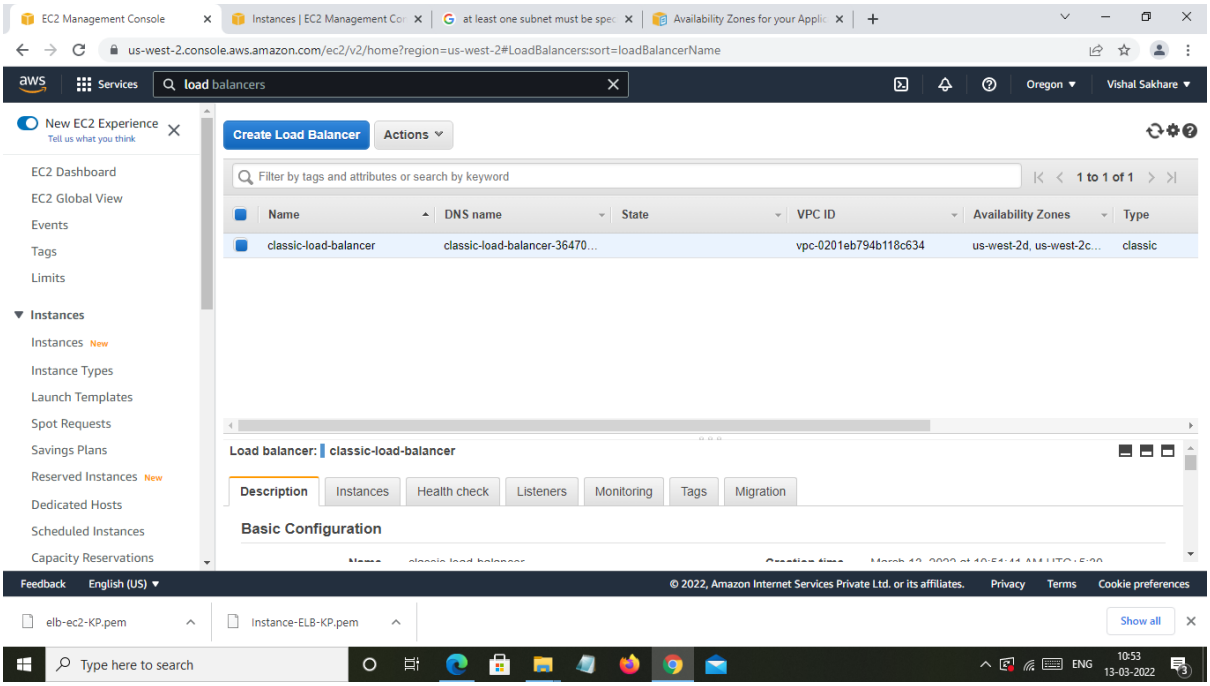
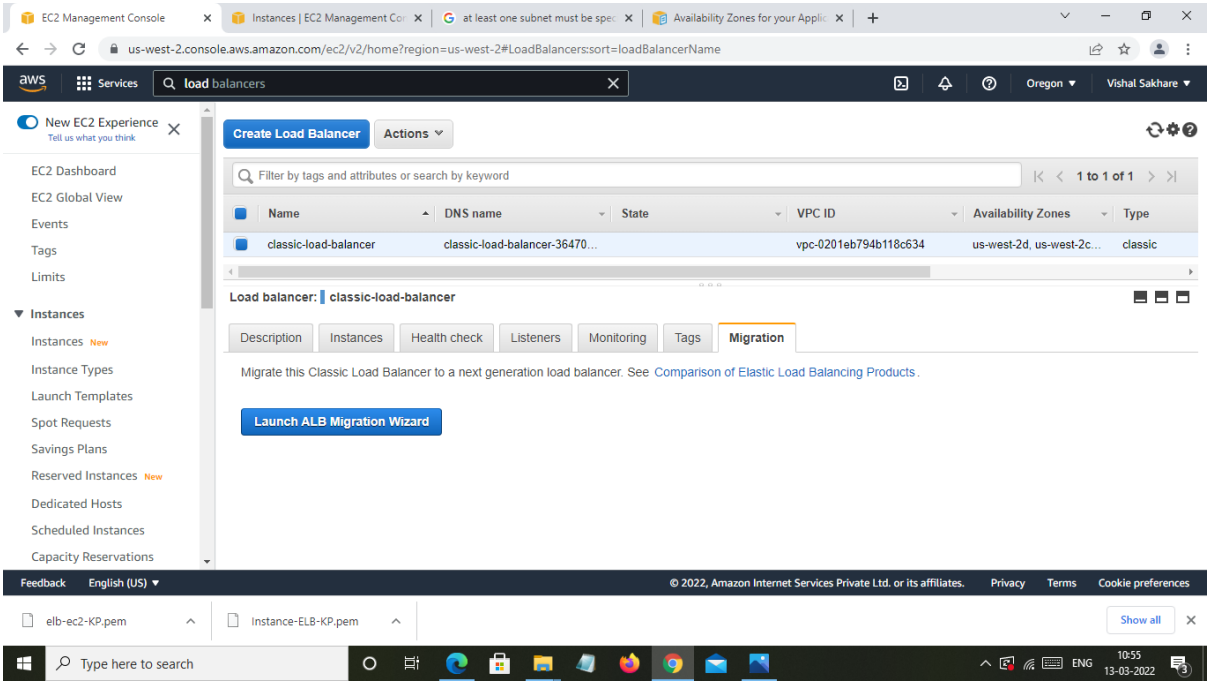
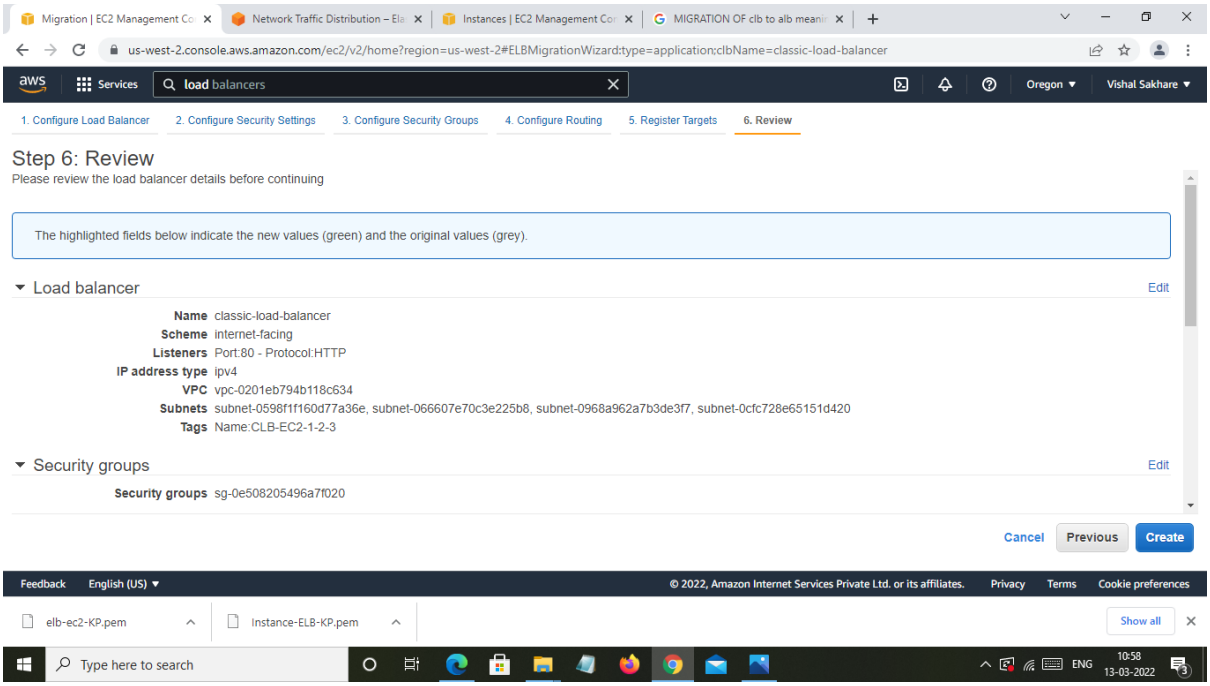


- Migrate the Classic Load Balancer into an Application Load Balancer




Migration | EC2 Management Co
Network Traffic Distribution – Ela
Instances | EC2 Management Cor
MIGRATION OF clb to alb meanir
us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#ELBMigrationWizard:type=application;clbName=classic-load-balancer
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load balancers
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1. Configure Load Balancer
2. Configure Security Settings
3. Configure Security Groups
4. Configure Routing
5. Register Targets
6. Review
Step 6: Review
Please review the load balancer details before continuing
The highlighted fields below indicate the new values (green) and the original values (grey).
Load balancer
Edit
Name classic-load-balancer
Scheme internet-facing
Listeners Port:80 - Protocol:HTTP
IP address type ipv4
VPC vpc-0201eb794b118c634
Subnets subnet-0598f1f160d77a36e, subnet-066607e70c3e225b8, subnet-0968a962a7b3de3f7, subnet-0cfc728e65151d420
Tags Name:CLB-EC2-1-2-3
Security groups
Edit
Security groups sg-0e508205496a7f020
Cancel
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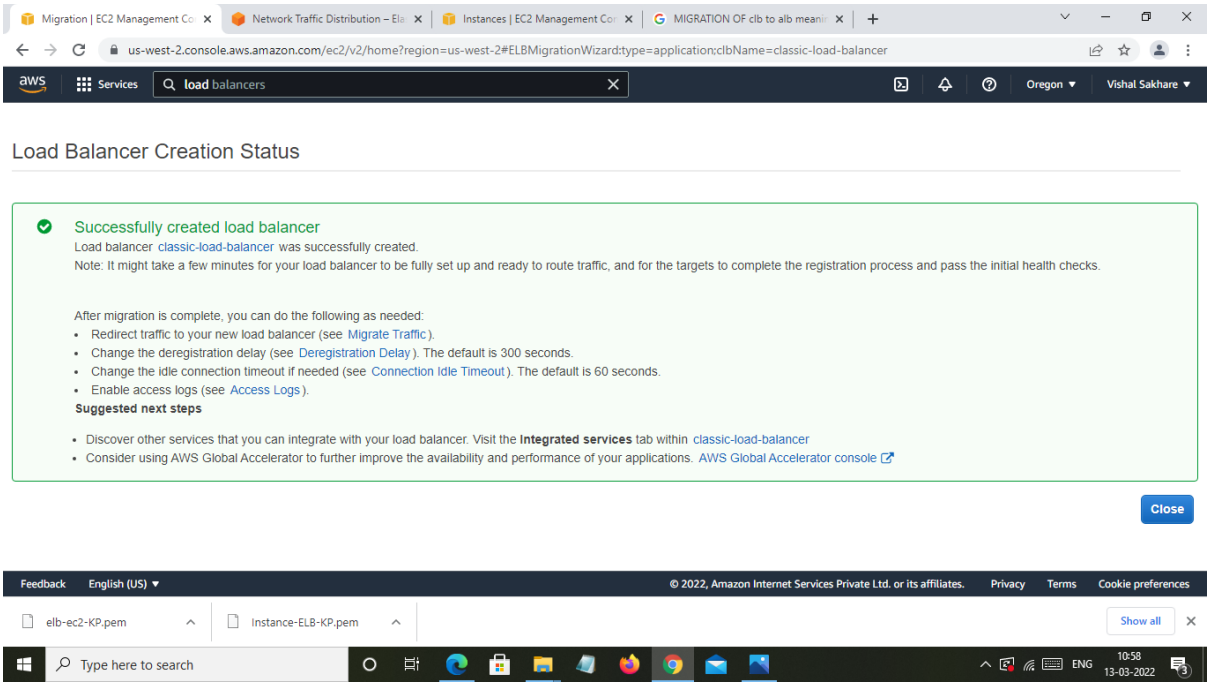
Migration | EC2 Management Co
Network Traffic Distribution – Ela
Instances | EC2 Management Cor
MIGRATION OF clb to alb meanir
us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#ELBMigrationWizard:type=application;clbName=classic-load-balancer
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load balancers
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Load Balancer Creation Status
Successfully created load balancer
Load balancer classic-load-balancer was successfully created.
Note: It might take a few minutes for your load balancer to be fully set up and ready to route traffic, and for the targets to complete the registration process and pass the initial health checks.
After migration is complete, you can do the following as needed:
Redirect traffic to your new load balancer (see Migrate Traffic).
Change the deregistration delay (see Deregistration Delay). The default is 300 seconds.
Change the idle connection timeout if needed (see Connection Idle Timeout). The default is 60 seconds.
Enable access logs (see Access Logs).
Suggested next steps
Discover other services that you can integrate with your load balancer. Visit the Integrated services tab within classic-load-balancer
Consider using AWS Global Accelerator to further improve the availability and performance of your applications. AWS Global Accelerator console
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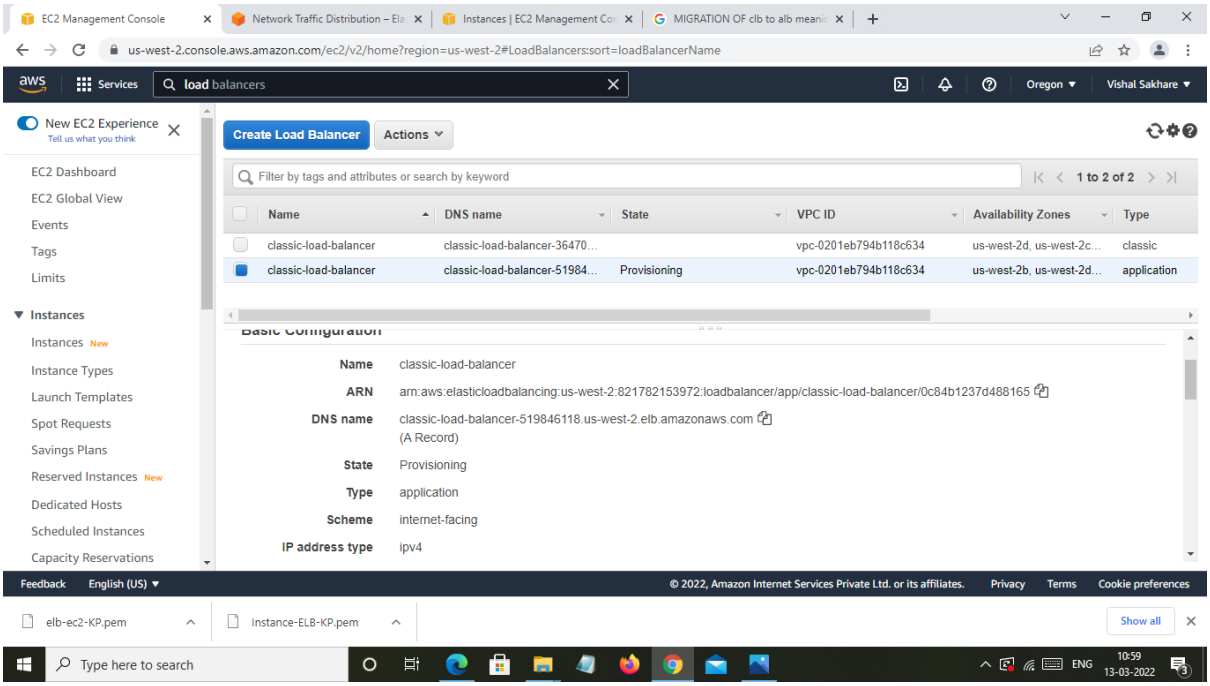
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us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LoadBalancers:sort=loadBalancerName
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Dedicated Hosts
Scheduled Instances
Capacity Reservations
Create Load Balancer
Actions
Filter by tags and attributes or search by keyword
1 to 2 of 2
Name
DNS name
State
VPC ID
Availability Zones
Type
classic-load-balancer
classic-load-balancer-36470...
vpc-0201eb794b118c634
us-west-2d, us-west-2c...
classic
classic-load-balancer
classic-load-balancer-51984...
Provisioning
vpc-0201eb794b118c634
us-west-2b, us-west-2d...
application
Basic Configuration
Name
classic-load-balancer
ARN
arn:aws:elasticloadbalancing:us-west-2:821782153972:loadbalancer/app/classic-load-balancer/0c84b1237d488165
DNS name
classic-load-balancer-519846118.us-west-2.elb.amazonaws.com
(A Record)
State
Provisioning
Type
application
Scheme
internet-facing
IP address type
ipv4
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