

Lab 4: Scale and Load Balance the VM using AWS services

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Complete the following tasks to scale and load balance the cloud architecture

Screenshots:

- Create an Amazon Machine Image (AMI) from a running instance.

Successfully created ami-060a99681f9a9aab1 from instance i-008f0ba4c7b776105.

Instances (2) Info

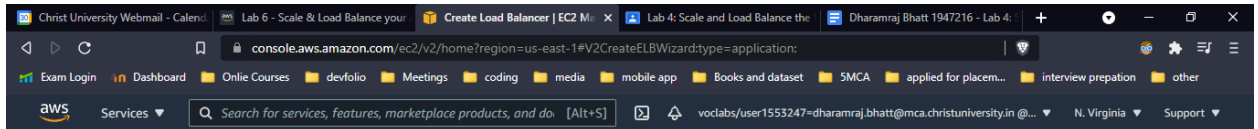
Filter instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	Bastion Host	i-02d372029f18746c6	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a
<input type="checkbox"/>	Web Server 1	i-008f0ba4c7b776105	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a

Select an instance above

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- Create a load balancer.



Load Balancer Creation Status

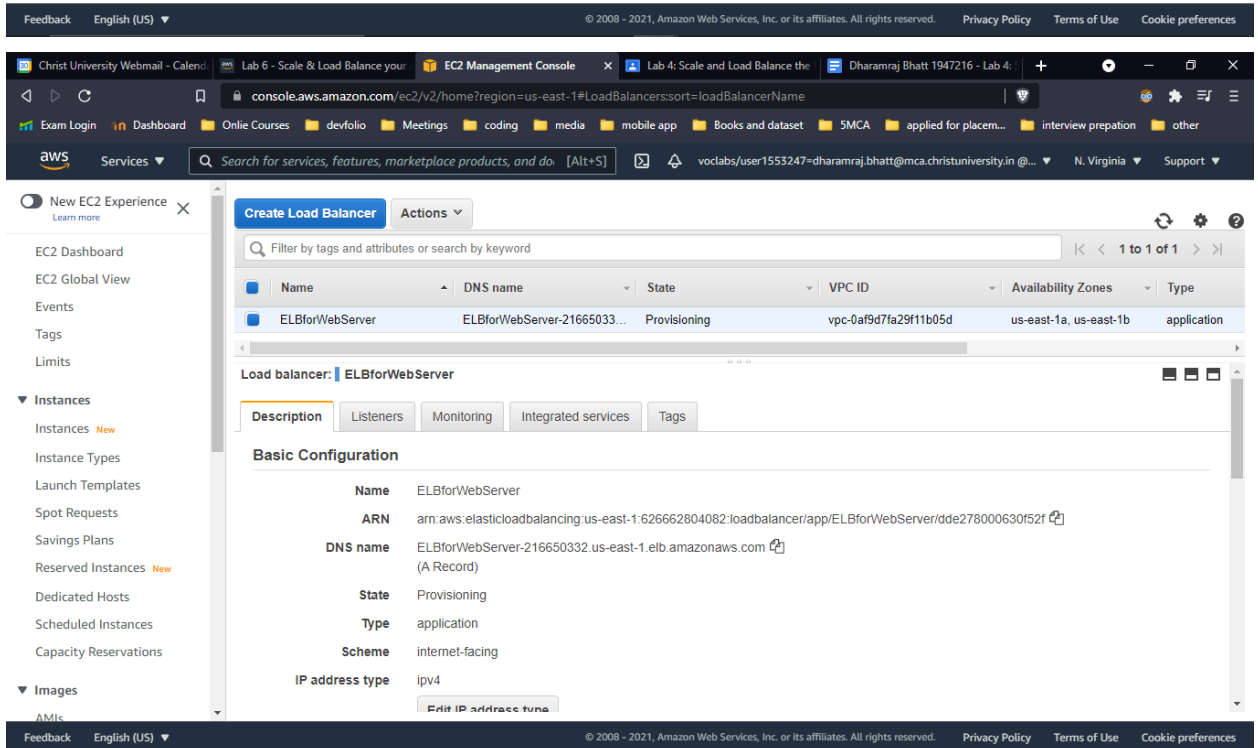
Successfully created load balancer

Load balancer [ELBforWebServer](#) 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.

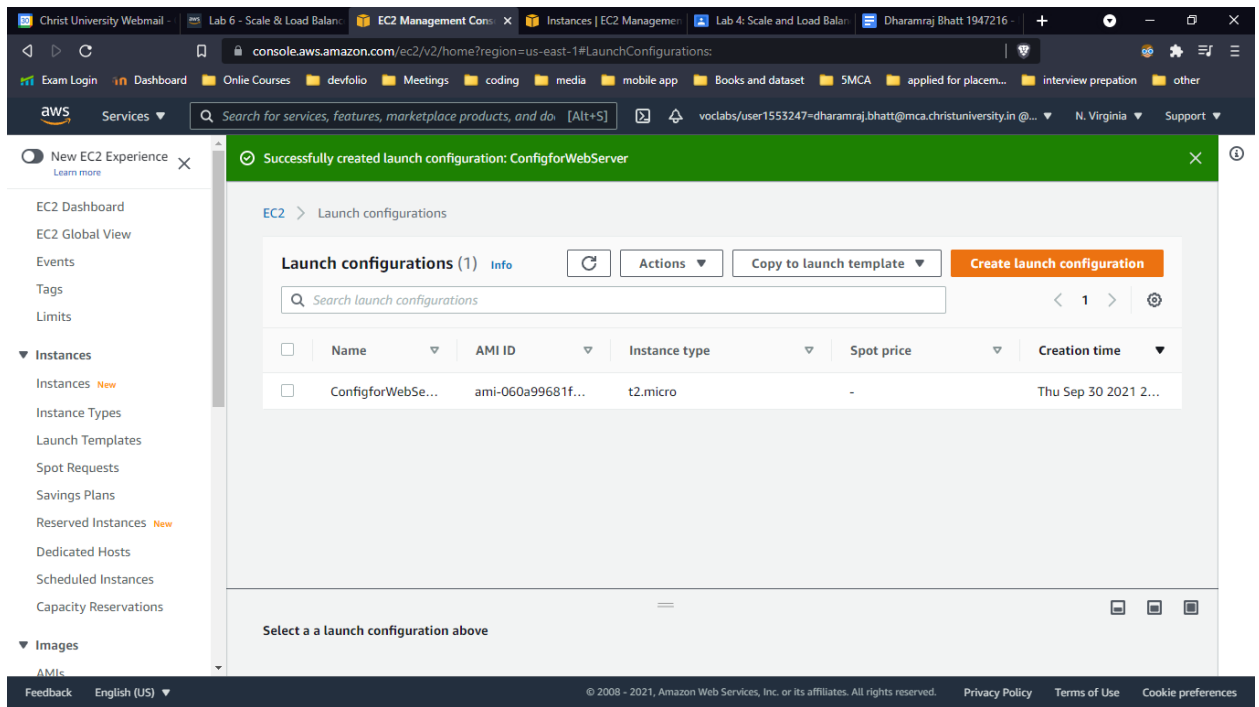
Suggested next steps

- Discover other services that you can integrate with your load balancer. Visit the [Integrated services](#) tab within [ELBforWebServer](#)
- Consider using AWS Global Accelerator to further improve the availability and performance of your applications. [AWS Global Accelerator console](#)

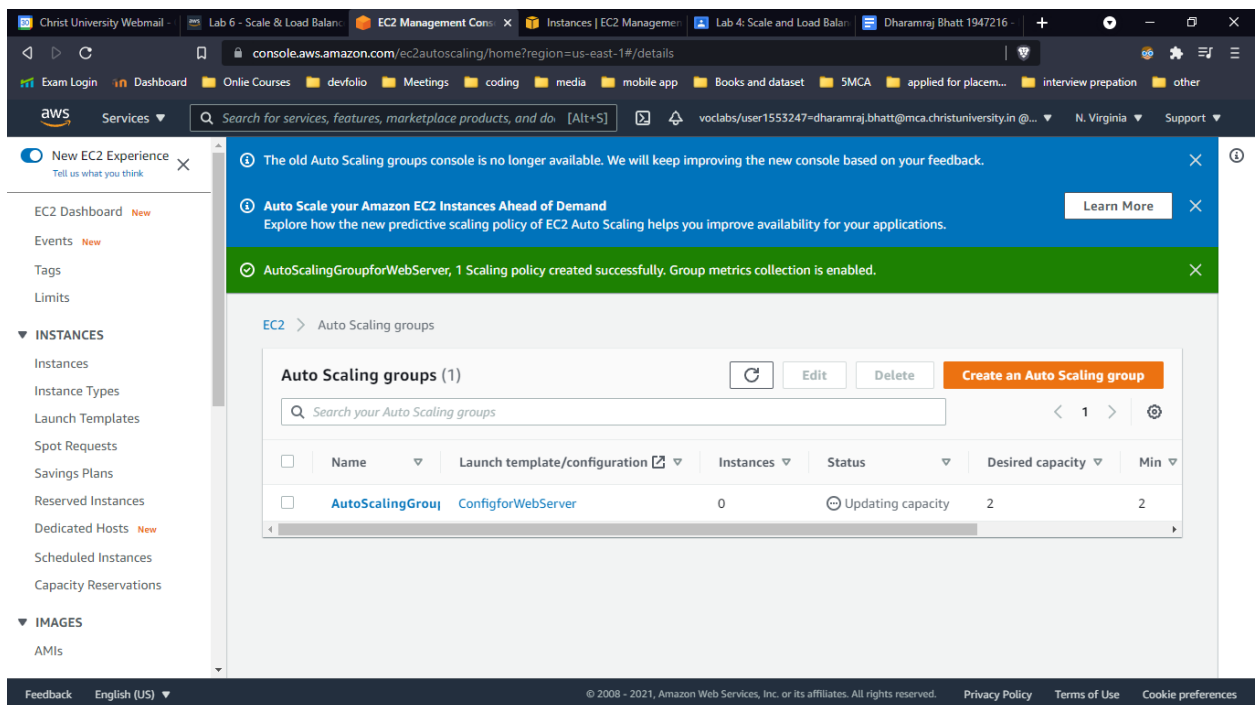
Close



- Create a launch configuration and an Auto Scaling group.



- Automatically scale new instances within a private subnet



- Create Amazon CloudWatch alarms and monitor the performance of your infrastructure.

Meta-Data	Value
InstanceId	i-02ec709cd0bb45619
Availability Zone	us-east-1b

Current CPU Load: 0%

aws Load Test RDS

Generating CPU Load! (auto refresh in 5 seconds)

Current CPU Load: 100%

CloudWatch x

New menu experience

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Getting Started

CloudWatch > Alarms

Alarms (2) Hide Auto Scaling alarms Clear selection Create composite alarm Actions Create alarm

Search

Any state Any type < 1 >

	Name	State	Last state update	Conditions	Actions
<input type="checkbox"/>	TargetTracking-AutoScalingGroupforWebServer-AlarmHigh-a262d175-72d8-413d-8d11-67b5ca12e8e9	OK	2021-09-30 23:12:20	CPUUtilization > 60 for 3 datapoints within 3 minutes	Actions enabled
<input type="checkbox"/>	TargetTracking-AutoScalingGroupforWebServer-AlarmLow-c2cb28f4-95c8-4cec-badf-bfaf703e1c2e	Insufficient data	2021-09-30 23:08:34	CPUUtilization < 54 for 15 datapoints within 15 minutes	Actions enabled

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CloudWatch Alarms (2)

Alarms (2) ☐ Hide Auto Scaling alarms

Search

Any state Any type

<input type="checkbox"/>	Name	State	Last state update	Conditions	Actions
<input type="checkbox"/>	TargetTracking-AutoScalingGroupfor rWebServer-AlarmLow-c2cb28f4-95c8-4cec-badf-bfaf703e1c2e	OK	2021-09-30 23:21:33	CPUUtilization < 54 for 15 datapoints within 15 minutes	Actions enabled
<input type="checkbox"/>	TargetTracking-AutoScalingGroupfor rWebServer-AlarmHigh-a262d175-72d8-413d-8d11-67b5ca12e8e9	OK	2021-09-30 23:12:20	CPUUtilization > 60 for 3 datapoints within 3 minutes	Actions enabled

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CloudWatch Alarms (2)

Alarms (2) ☐ Hide Auto Scaling alarms

Search

Any state Any type

<input type="checkbox"/>	Name	State	Last state update	Conditions	Actions
<input type="checkbox"/>	TargetTracking-AutoScalingGroupfor rWebServer-AlarmLow-be3281b6-4c92-4531-8155-1f55f66f63f0	Insufficient data	2021-09-30 23:24:20	CPUUtilization < 42 for 15 datapoints within 15 minutes	Actions enabled
<input type="checkbox"/>	TargetTracking-AutoScalingGroupfor rWebServer-AlarmHigh-a262d175-72d8-413d-8d11-67b5ca12e8e9	In alarm	2021-09-30 23:24:20	CPUUtilization > 60 for 3 datapoints within 3 minutes	Actions enabled

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EC2 Management

Instances | EC2 Ma

CloudWatch M

Lab 4: Scale and Lo

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AWS Technical Ess

console.aws.amazon.com/cloudwatch/home?region=us-east-1#alarmsV2:alarm/TargetTracking-AutoScalingGroupforWebServer-AL... |

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Settings

Getting Started

CloudWatch > Alarms > TargetTracking-AutoScalingGroupforWebServer-AlarmHigh-a262d175-72d8-413d-8d11-67b5ca12e8e9

Alarms TargetTracking-AutoScalingGroupforWebServer-AlarmHigh-a262d175-72d8-413d-8d11-67b5ca12e8e9

Actions

Graph

View in metrics

CPUUtilization

CPUUtilization > 60 for 3 datapoints within 3 minutes

In alarm

Percent

99.8

50.1

0.328

15.0015.1515.3015.4516.0016.1516.3016.4517.0017.1517.3017.45

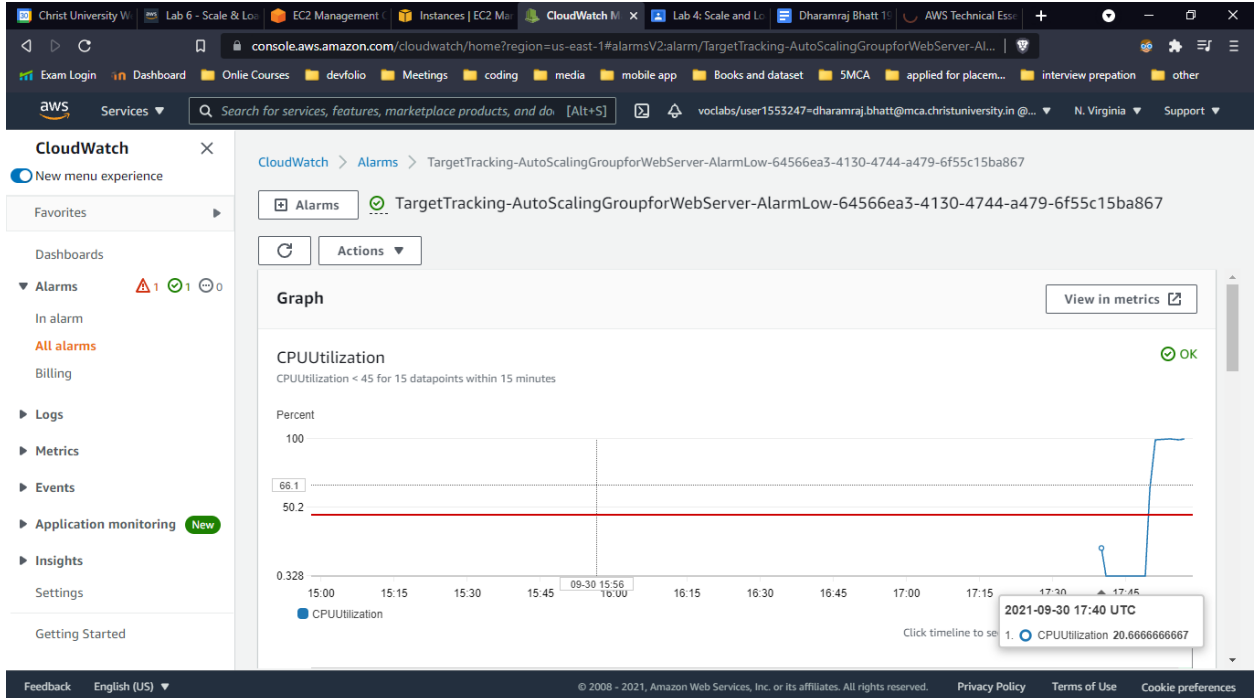
CPUUtilization

Click timeline to see the state change at the selected time.

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Instances (6) Info

Filter instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	Bastion Host	i-02d372029f18746c6	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a
<input type="checkbox"/>	Web Server 1	i-008f0ba4c7b776105	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a
<input type="checkbox"/>	WebServerInst...	i-00857f29cb7953f0f	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a
<input type="checkbox"/>	WebServerInst...	i-016f68faf72539fd8	Running	t2.micro	-	No alarms	us-east-1a
<input type="checkbox"/>	WebServerInst...	i-02ec709cd0bb45619	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b
<input type="checkbox"/>	WebServerInst...	i-0069fee1f0a02adc9	Initializing	t2.micro	Initializing	No alarms	us-east-1b

Select an instance above

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console.aws.amazon.com/ec2/v2/home?region=us-east-1#instances

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Instances (8) Info

Filter instances

1

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	Bastion Host	i-02d372029f18746c6	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a
<input type="checkbox"/>	Web Server 1	i-008f0ba4c7b776105	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a
<input type="checkbox"/>	WebServerInst...	i-00857f29cb7953f0f	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a
<input type="checkbox"/>	WebServerInst...	i-016f68faf72539fd8	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a
<input type="checkbox"/>	WebServerInst...	i-00d9da2d26846c389	Pending	t2.micro	-	No alarms	us-east-1a
<input type="checkbox"/>	WebServerInst...	i-02ec709cd0bb45619	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b
<input type="checkbox"/>	WebServerInst...	i-0069fee1f0a02adc9	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b
<input type="checkbox"/>	WebServerInst...	i-0da941615412c3f66	Pending	t2.micro	-	No alarms	us-east-1b

Select an instance above

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Successfully terminated i-008f0ba4c7b776105

Instances (1/8) Info

Filter instances

1

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	Bastion Host	i-02d372029f18746c6	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a
<input checked="" type="checkbox"/>	Web Server 1	i-008f0ba4c7b776105	Shutting-down	t2.micro	2/2 checks passed	No alarms	us-east-1a
<input type="checkbox"/>	WebServerInst...	i-00857f29cb7953f0f	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a
<input type="checkbox"/>	WebServerInst...	i-016f68faf72539fd8	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a
<input type="checkbox"/>	WebServerInst...	i-00d9da2d26846c389	Running	t2.micro	-	No alarms	us-east-1a
<input type="checkbox"/>	WebServerInst...	i-02ec709cd0bb45619	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b
<input type="checkbox"/>	WebServerInst...	i-0069fee1f0a02adc9	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b
<input type="checkbox"/>	WebServerInst...	i-0da941615412c3f66	Running	t2.micro	-	No alarms	us-east-1b

Instance: i-008f0ba4c7b776105 (Web Server 1)

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