

Wk7: ACF Lab 6: Scaling and Load Balancing | Lab 6 - Scale & Load Balance your App | Create Image | EC2 Management | Wk7: ACF Lab 6: Scaling and Load Balancing | +

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateImage:instanceId=i-078fbe3b74d0a2063

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EC2 Instances i-078fbe3b74d0a2063 Create image

Create image Info

An image (also referred to as an AMI) defines the programs and settings that are applied when you launch an EC2 instance. You can create an image from the configuration of an existing instance.

Instance ID
i-078fbe3b74d0a2063 (Web Server 1)

Image name
WebServerAMI

Maximum 127 characters. Can't be modified after creation.

Image description - optional
Lab AMI for Web Server

Maximum 255 characters

No reboot
 Enable

Instance volumes

Storage type	Device	Snapshot	Size	Volume type	IOPS	Throughput	Delete on termination	Encrypted
EBS	/dev/...	Create new snapshot fr...	8	EBS General Purpose S...	3000		<input checked="" type="checkbox"/> Enable	<input type="checkbox"/> Enable

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Wk7: ACF Lab 6: Scaling and Load Balancing | Lab 6 - Scale & Load Balance your App | Target groups | EC2 Management | Wk7: ACF Lab 6: Scaling and Load Balancing | +

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

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New EC2 Experience Tell us what you think EC2 Target groups

Successfully created target group: LabGroup

EC2 Target groups

Target groups (1) Info

Find resources by attribute or tag

Name	ARN	Port	Protocol	Target type	Load balancer
LabGroup	arn:aws:elasticloadbalanc...	80	HTTP	Instance	<small>None associated</small>

0 target groups selected

Select a target group above.

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

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Lab VPC
vpc-02fe7b97c11d91ff
IPv4: 10.0.0.0/16

Mappings Info
Select at least two Availability Zones and one subnet per zone. The load balancer routes traffic to targets in these Availability Zones only. Availability Zones that are not supported by the load balancer or the VPC are not available for selection.

us-east-1a (use1-az4)

Subnet: subnet-04270168ada53890d Public Subnet 1

IPv4 address: Assigned by AWS

us-east-1b (use1-az6)

Subnet: subnet-0a43fc220dd160bec Public Subnet 2

IPv4 address: Assigned by AWS

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

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New EC2 Experience Tell us what you think

EC2 Dashboard
EC2 Global View
Events
Limits

Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations

Images
AMIs
AMI Catalog

Elastic Block Store

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Security groups Info
A security group is a set of firewall rules that control the traffic to your load balancer. Select an existing security group, or you can [create a new security group](#).

Security groups: Select up to 5 security groups

Web Security Group sg-0584ad4d2a240fe21 X
VPC: vpc-02fe7b97c11d91ff

Listeners and routing Info
A listener is a process that checks for connection requests using the port and protocol you configure. The rules that you define for a listener determine how the load balancer routes requests to its registered targets.

Listener HTTP:80

Protocol	Port	Default action
HTTP	: 80 1-65535	Forward to LabGroup Target type: Instance, IPv4 Info Create target group

Listener tags - optional

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Amazon Machine Image (AMI)

WebServerAMI
ami-0696db9996b9ebef
2023-06-21T08:50:21.000Z Virtualization: hvm ENA enabled: true Root device type: ebs
boot mode: uefi-preferred

Description
Lab AMI for Web Server

Architecture AMI ID
x86_64 ami-0696db9996b9ebef

▼ Instance type [Info](#)

Advanced

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Amazon Machine Image (AMI)

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ami-0696db9996b9ebef
2023-06-21T08:50:21.000Z Virtualization: hvm ENA enabled: true Root device type: ebs
boot mode: uefi-preferred

Description
Lab AMI for Web Server

Architecture AMI ID
x86_64 ami-0696db9996b9ebef

▼ Instance type [Info](#)

Advanced

Instance type

t2.micro Free tier eligible

Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Windows pricing: 0.0162 USD per Hour
On-Demand SUSE pricing: 0.0116 USD per Hour
On-Demand RHEL pricing: 0.0716 USD per Hour
On-Demand Linux pricing: 0.0116 USD per Hour

All generations

Compare instance types

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Amazon Machine Image (AMI)

WebServerAMI
ami-0696db9996b9ebef
2023-06-21T08:50:21.000Z Virtualization: hvm ENA enabled: true Root device type: ebs
boot mode: uefi-preferred

Description
Lab AMI for Web Server

Architecture AMI ID
x86_64 ami-0696db9996b9ebef

▼ Instance type [Info](#)

Advanced

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

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Shutdown behavior **Info**
Don't include in launch template
Not applicable for EC2 Auto Scaling

Stop - Hibernate behavior **Info**
Don't include in launch template
Not applicable for Amazon EC2 Auto Scaling.

Termination protection **Info**
Don't include in launch template

Stop protection **Info**
Don't include in launch template

Detailed CloudWatch monitoring **Info**
Enable

Additional charges apply

Elastic GPU **Info**
Don't include in launch template

Elastic inference **Info**
 Add Elastic Inference accelerators

Summary

Software Image (AMI)
Lab AMI for Web Server
ami-069db9996b9bebdf

Virtual server type (instance type)
t2.micro

Firewall (security group)
Web Security Group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours in the Regions in which t2.micro is unavailable instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of snapshots, and 100 GiB of bandwidth to the internet.

Cancel **Create launch template**

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Wk7: ACF Lab 6: Scaling and Load Balancing | Lab 6 - Scale & Load Balance your app | Create Auto Scaling group | EC2 | Wk7: ACF Lab 6: Scaling and Load Balancing | +

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup:launchTemplateId=lt-0d6b76a41413ee197

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Step 2 Choose instance launch options

Step 3 - optional Configure advanced options

Step 4 - optional Configure group size and scaling policies

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

options.

Network Info

For most applications, you can use multiple Availability Zones and let EC2 Auto Scaling balance your instances across the zones. The default VPC and default subnets are suitable for getting started quickly.

VPC
Choose the VPC that defines the virtual network for your Auto Scaling group.
vpc-02fe7b97c11d91fff (Lab VPC)

Create a VPC

Availability Zones and subnets
Define which Availability Zones and subnets your Auto Scaling group can use in the chosen VPC.
Select Availability Zones and subnets

us-east-1a | subnet-08638f59885cceaae (Private Subnet 1)
10.0.1.0/24

us-east-1b | subnet-0c9d5e505da57021a (Private Subnet 2)
10.0.3.0/24

Create a subnet

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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup:launchTemplateId=lt-0d6b76a41413ee197

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Configure advanced options Step 3 - optional

Step 4 - optional Configure group size and scaling policies

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

Configure advanced options Use the options below to attach your Auto Scaling group to an existing load balancer, or to a new load balancer that you define.

No load balancer Traffic to your Auto Scaling group will not be fronted by a load balancer.

Attach to an existing load balancer Choose from your existing load balancers.

Attach to a new load balancer Quickly create a basic load balancer to attach to your Auto Scaling group.

Attach to an existing load balancer Select the load balancers that you want to attach to your Auto Scaling group.

Choose from your load balancer target groups This option allows you to attach Application, Network, or Gateway Load Balancers.

Choose from Classic Load Balancers

Existing load balancer target groups Only instance target groups that belong to the same VPC as your Auto Scaling group are available for selection.

Select target groups

LabGroup | HTTP X Application Load Balancer: LabELB

VPC Lattice integration options Info To improve networking capabilities and scalability, integrate your Auto Scaling group with VPC Lattice. VPC Lattice facilitates

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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup:launchTemplateId=lt-0d6b76a41413ee197

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Configure group size and scaling policies Desired capacity 2

Minimum capacity 2

Maximum capacity 6

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

Scaling policies - optional Choose whether to use a scaling policy to dynamically resize your Auto Scaling group to meet changes in demand. Info

Target tracking scaling policy Choose a desired outcome and leave it to the scaling policy to add and remove capacity as needed to achieve that outcome.

None

Scaling policy name LabScalingPolicy

Metric type Average CPU utilization

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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup:launchTemplateId=lt-0d6b76a41413ee197

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EC2 > Auto Scaling groups > Create Auto Scaling group

Step 1 Choose launch template or configuration

Step 2 Choose instance launch options

Step 3 - optional Configure advanced options

Step 4 - optional Configure group size and scaling policies

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

Add tags - optional Info

Add tags to help you search, filter, and track your Auto Scaling group across AWS. You can also choose to automatically add these tags to instances when they are launched.

You can optionally choose to add tags to instances (and their attached EBS volumes) by specifying tags in your launch template. We recommend caution, however, because the tag values for instances from your launch template will be overridden if there are any duplicate keys specified for the Auto Scaling group.

Tags (1)

Key	Value - optional	Tag new instances
Name	Lab Instance	<input checked="" type="checkbox"/>

Add tag

49 remaining

Cancel Previous Next

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Wk7: ACF Lab 6: Scaling and Load Balancing | Lab 6 - Scale & Load Balance your app | Auto Scaling groups | EC2 Manager | Wk7: ACF Lab 6: Scaling and Load Balancing | +

← → ⌂ 🔍 us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#AutoScalingGroups:

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Lab Auto Scaling Group, 1 Scaling policy created successfully. Group metrics collection is enabled.

EC2 > Auto Scaling groups

Auto Scaling groups (1) Info

Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max	Available...
Lab Auto Scaling Group	LabConfig Version Default	0	Updating capacity...	2	2	6	us-east-1, ...

0 Auto Scaling groups selected

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Wk7: ACF Lab 6: Scaling and Load Balancing | Lab 6 - Scale & Load Balance your app | Target groups | EC2 Manager | Wk7: ACF Lab 6: Scaling and Load Balancing | +

← → ⌂ 🔍 us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#TargetGroups:

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EC2 > Target groups

Target groups (1/1) Info

Name	ARN	Port	Protocol	Target type	Load balancer
LabGroup	arn:aws:elasticloadbalanc...	80	HTTP	Instance	LabELB

Target group: LabGroup

Registered targets (2)

Instance ID	Name	Port	Zone	Health status	Health status details
i-0f966196e73ac0258	Lab Instance	80	us-east-1b	healthy	
i-032f989f81521398a	Lab Instance	80	us-east-1a	healthy	

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LabELB-1711427246.us-east-1.elb.amazonaws.com

The screenshot shows the AWS Lambda function configuration interface. At the top, there are tabs for 'Wk7: ACF Lab 6: Scaling and Load Balancing' and 'Lab 6 - Scale & Load Balance your application'. The main content area displays environment variables:

Meta-Data	Value
InstanceId	i-0f966196e73ac0258
Availability Zone	us-east-1b

Below the table, a message states 'Current CPU Load: 0%'.

The screenshot shows the CloudWatch Metrics Alarms page. The left sidebar includes links for Favorites and recent items, Dashboards, Alarms (with 0 OK, 1 Insufficient data), All alarms, Billing, Logs, Metrics, X-Ray traces, Events, Application monitoring, Insights, Settings, and Getting Started. The main content area shows two alarms:

Name	State	Last state update	Conditions	Actions
TargetTracking-Lab Auto Scaling Group-AlarmHigh-f0654198-aa37-4b81-8c61-9fd3dff6c1d7	OK	2023-06-21 09:08:40	CPUUtilization > 60 for 3 datapoints within 3 minutes	Actions enabled
TargetTracking-Lab Auto Scaling Group-AlarmLow-1ce81d77-40b6-4d02-a517-ab4b7d9d20bd	Insufficient data	2023-06-21 09:06:31	CPUUtilization < 54 for 15 datapoints within 15 minutes	Actions enabled

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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#DynamicScalingPolicyid=Lab%20Auto%20Scaling%20Group

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Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations

Images AMIs AMI Catalog

Elastic Block Store Volumes Snapshots Lifecycle Manager

Network & Security Load Balancing Load Balancers Target Groups

Auto Scaling Auto Scaling Groups

EC2 > Auto Scaling groups > Lab Auto Scaling Group

Edit dynamic scaling policy

Policy type: Target tracking scaling

Scaling policy name: LabScalingPolicy

Metric type: Average CPU utilization

Target value: 50

Instances need: 300 seconds warm up before including in metric

Disable scale in to create only a scale-out policy

Cancel Update

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us-east-1.console.aws.amazon.com/cloudwatch/home?region=us-east-1#alarmsV2:

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CloudWatch Alarms

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

Name	State	Last state update	Conditions	Actions
TargetTracking-Lab Auto Scaling Group-AlarmLow-5768d1ff-b3ea-4b64-9c6c-5618aa0254b5	Insufficient data	2023-06-21 09:19:53	CPUUtilization < 37.5 for 15 datapoints within 15 minutes	<input checked="" type="checkbox"/> Actions enabled
TargetTracking-Lab Auto Scaling Group-AlarmHigh-c645842e-e799-4fb6-adc9-918ab7b2e086	In alarm	2023-06-21 09:19:52	CPUUtilization > 50 for 3 datapoints within 3 minutes	<input checked="" type="checkbox"/> Actions enabled

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The screenshot shows the AWS Management Console with the EC2 Instances page open. The left sidebar includes links for EC2 Dashboard, EC2 Global View, Events, Limits, Instances (selected), Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Scheduled Instances, Capacity Reservations, Images (AMIs, AMI Catalog), and Elastic Block Store (Volumes).

The main content area displays a table of instances:

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/>	Web Server 1	i-078fbe3b74d0a2063	Running	t2.micro	2/2 checks passed	No alarms	+ us-east-1a	-
<input type="checkbox"/>	Lab Instance	i-032f989f81521398a	Running	t2.micro	2/2 checks passed	No alarms	+ us-east-1a	-
<input type="checkbox"/>	Lab Instance	i-0840ff250fa64dde5	Running	t2.micro	Initializing	No alarms	+ us-east-1a	-
<input type="checkbox"/>	Bastion Host	i-0ecafa89bf72c5ff1	Running	t2.micro	2/2 checks passed	No alarms	+ us-east-1a	-
<input type="checkbox"/>	Lab Instance	i-0afae8a677daa3128	Running	t2.micro	Initializing	No alarms	+ us-east-1b	-
<input type="checkbox"/>	Lab Instance	i-0f966196e73ac0258	Running	t2.micro	2/2 checks passed	No alarms	+ us-east-1b	-

A modal window titled "Select an instance" is displayed, listing the same instances as the table.

A tooltip "Battery saver" is shown, stating "Battery saver is on Consider plugging in your device." with a timestamp of 21/06/2023.

The bottom of the screen shows the taskbar with multiple browser tabs and system icons.

The screenshot shows the AWS Management Console with the EC2 Instances page open. The top navigation bar includes tabs for 'Instances' and 'EC2 Management Console'. The left sidebar shows the 'Instances' section with several options like 'Instances Types', 'Launch Templates', and 'Capacity Reservations'. The main content area displays a table of instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Web Server 1	i-078fbe3b74d0a2063	Shutting-down	t2.micro	2/2 checks passed	No alarms	us-east-1a	-
Lab Instance	i-032f989f15121398a	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	-
Lab Instance	i-0840ff250fa64ddde5	Running	t2.micro	Initializing	No alarms	us-east-1a	-
Bastion Host	i-0ecaef89bf72c5ff1	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	-
Lab Instance	i-0afae8a677daa3128	Running	t2.micro	Initializing	No alarms	us-east-1b	-
Lab Instance	i-0f966196e73ac0258	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	-

Below the table, a detailed view for instance 'i-078fbe3b74d0a2063 (Web Server 1)' is shown. The 'Details' tab is selected, displaying information such as Public IPv4 address (52.90.166.189), Instance state (Shutting-down), and Private IP DNS name (IPv4 only).