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Configure Application Auto Scaling using Target Tracking policy in ECS

Level: Intermediate


Amazon Web Services

Elastic Load Balancing


Amazon Elastic Container Service

Amazon EC2 Auto Scaling

English




1h 29m 0s left




End Lab


Open Console

Validation


 WHIZLABS



0




K




Password ⓘ

61ae5ac4-6a22-47fc-8850-906f3760b7c7




Access Key ⓘ

AKIAWLWDXAZAL4YXAKPC



Secret Key ⓘ

EnStmCD89w8AgOtJfBKzH4YαY9oHwnwndcPXvhpO






Lab Resources

No Lab Resources Found

Support Documents

1. [FAQs and Troubleshooting](#)
2. [SSH into EC2 Instance](#)
3. [Labs - Instructions and Guidelines](#)
4. [SSH into EC2 Instance using Putty](#)

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Lab Steps

Task 1: Sign in to AWS Management Console

1. Click on the **Open Console** button, and you will get redirected to AWS Console in a new browser tab.
2. On the AWS sign-in page,
 - Leave the Account ID as default. Never edit/remove the 12 digit Account ID present in the AWS Console. otherwise, you cannot proceed with the lab.
 - Now copy your **User Name** and **Password** in the Lab Console to the **IAM Username and Password** in AWS Console and click on the **Sign in** button.
3. Once Signed In to the AWS Management Console, Make the default AWS Region as **US East (N. Virginia) us-east-1**.

Task 2: Create a Security Group for the Load balancer and the ECS Cluster

1. Make sure you are in the **N.Virginia** Region.
2. Navigate to **EC2** by clicking on the **Services** menu available under the **Compute** section.
3. On the left panel menu, Select the **Security Groups** under the **Network & Security** section.
4. Click on the **Create security group** button.
5. We are going to create a Security group for the ECS cluster and load balancer
 - Security group name: Enter **ALB-ECS-SG**
 - Description: Enter **Security group for the load balancer and the ECS Cluster**
 - VPC: Select **Default VPC**

Create security group [Info](#)

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a security group, you must specify a name, a description, and a VPC.

Basic details

Security group name [Info](#)

ALB-ECS-SG

Name cannot be edited after creation.

Description [Info](#)

Security group for the load balancer and the ECS Cluster

VPC [Info](#)

vpc-db5d39a6 (Default VPC) ▼

- Click on the **Add rule** button under **Inbound rules**.
 - Type : Select **SSH**
 - Source : Select **Custom**
 - In the textbox add **0.0.0.0/0**
- Click on the **Add rule** under **Inbound rules**.
 - Type : Select **ALL TCP**

- Source : Select **Custom**
- In the textbox add **0.0.0.0/0**

The screenshot shows the 'Inbound rules' configuration page in the AWS IAM console. It displays two rules. The first rule is for 'SSH' (Type), 'TCP' (Protocol), port '22' (Port range), and 'Anyw...' (Source). The second rule is for 'All TCP' (Type), 'TCP' (Protocol), port '0 - 65535' (Port range), and 'Anyw...' (Source). Both rules have '0.0.0.0/0' entered in the 'Source' text box. The 'Delete' button is visible for each rule. An 'Add rule' button is at the bottom left.

6. Leave everything as default and click on the **Create security group** button.

Task 3: Create a Key Pair for the EC2 instances, inside the ECS Cluster

1. In the left navigation pane (scroll down) within **Network & Security**, click on the **Key Pairs**
2. To create a new key pair, click on the **Create key pair** button.
3. Fill in the details below:
 - Name: Enter **WhizKeyPair**
 - File format: **pem (Linux & Mac Users)** or **ppk (Windows users)**
 - Leave other options as default.
 - Click on the **Create key pair** button.

Create key pair [Info](#)

Key pair
A key pair, consisting of a private key and a public key, is a set of security credentials that you use to prove your identity when connecting to an instance.

Name

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type [Info](#)
☒ RSA ☐ ED25519

Private key file format
☒ .pem
For use with OpenSSH
☐ .ppk
For use with PuTTY

Tags - optional
No tags associated with the resource.
[Add new tag](#)
You can add up to 50 more tags.

[Cancel](#) [Create key pair](#)

4. After clicking on the Create key pair, you will get a pop-up to download the key pair in your local, save that file.

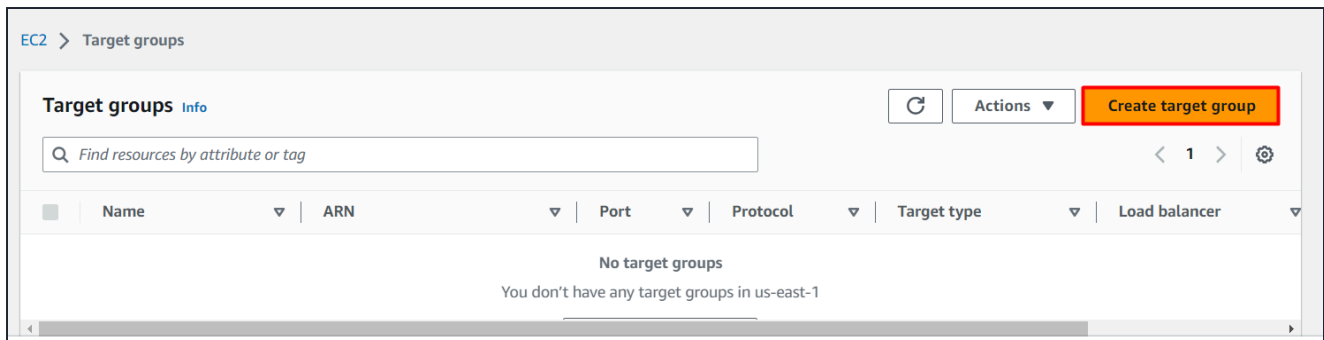
5. Key pair will be created.

Successfully created key pair

Key pairs (1) Info					
<input type="text" value="Search"/>					
<input type="checkbox"/>	Name	Type	Created	Fingerprint	ID
<input type="checkbox"/>	WhizKeyPair	rsa	2023/07/25 10:36 GMT+5:30	26:3e:7c:bb:82:f5:47:a2:34:0c:24:20:0c:...	key-0b8652be78f2d33db

Task 4: Creating the Target Group and Load Balancer

1. In the **EC2** Console, Navigate to **Target Groups**, present in the left panel under **Load Balancing**.
2. Click on the **Create target group** button.



3. For **Step 1, Specify group details**

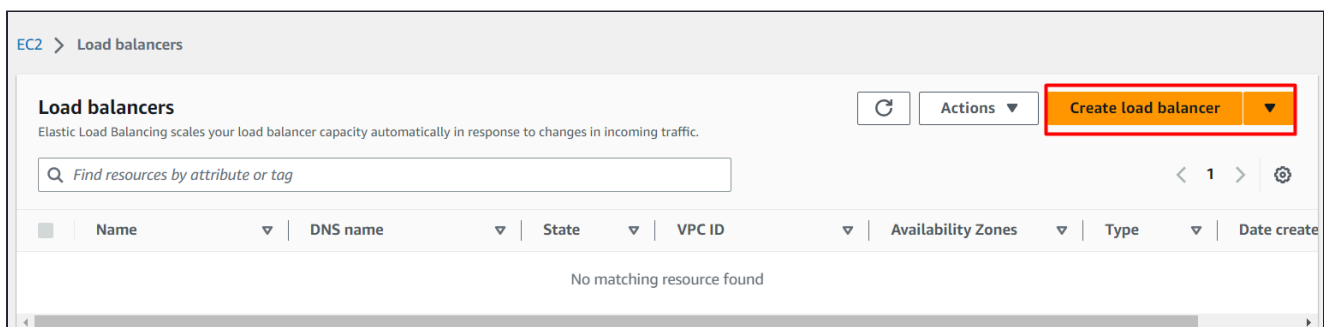
- Under Basic configurations,
 - Choose a target group: Choose **Instances**
 - Target group name: Enter **ecs-TG**
- **Keep all the settings as default.**
- Scroll to the end of the page and click on the **Next** button.

4. For **Step 2, Register targets**

- **Keep all the settings as default.**
- Click on the **Create target group** button.

5. Navigate to **Load Balancers** in the left-side navigation panel.

6. Click on **Create load balancer** button at the top-left to create a new load balancer for our web servers.



7. **Compare and select load balancer type:** Under the **Application load balancer**, click on **Create** button.

8. To create an Application load balancer, **configuring the load balancer** as below

- For the **Basic configuration** section,
 - Load balancer name: Enter **httpd-LB**

- Scheme: Select **Internet-facing**
- IP address type: Choose **IPv4**

Basic configuration

Load balancer name

Name must be unique within your AWS account and can't be changed after the load balancer is created.

httpd-LB

A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.

Scheme [Info](#)

Scheme can't be changed after the load balancer is created.

☒ Internet-facing

An internet-facing load balancer routes requests from clients over the internet to targets. Requires a public subnet. [Learn more](#)

☐ Internal

An internal load balancer routes requests from clients to targets using private IP addresses.

IP address type [Info](#)

Select the type of IP addresses that your subnets use.

☒ IPv4

Recommended for internal load balancers.

☐ Dualstack

Includes IPv4 and IPv6 addresses.

- For the **Network mapping** section:
 - VPC: Leave it as **default**
 - Mappings: Select **all the availability zones**.
- For the Security groups section,
 - Select the **ALB-ECS-SG** from the dropdown and **remove the default security group**.

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

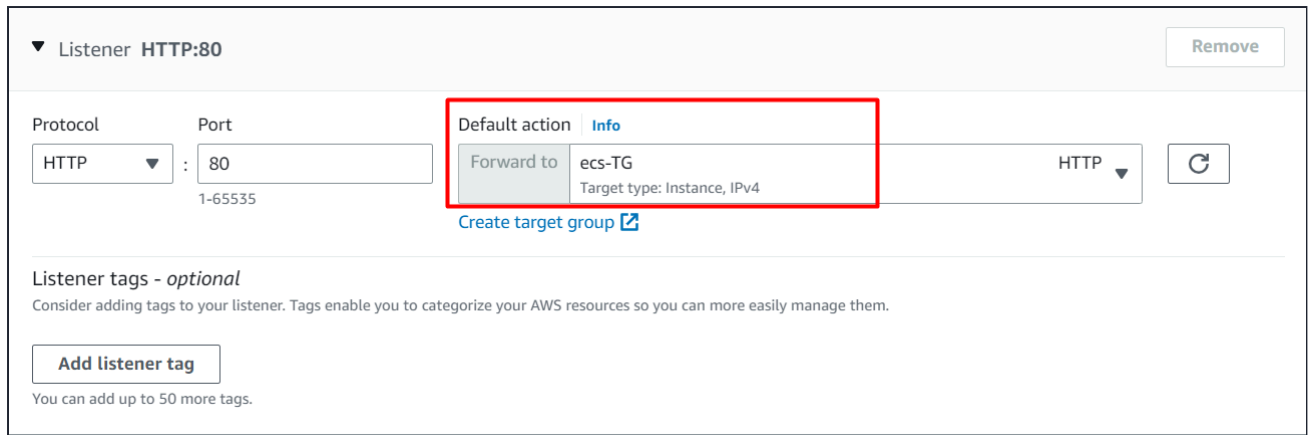
Select up to 5 security groups

default

sg-aedd0bb5 VPC: vpc-dbd5b1a6

✕

- For the **Listeners and routing** section,
 - The listener is already present with Protocol HTTP and Port 80.
 - **Select the target group ecs-TG for the Default action forwards to option.**



▼ Listener HTTP:80 Remove

Protocol Port Default action [Info](#)

HTTP : 80 Forward to ecs-TG HTTP ↺

1-65535 Target type: Instance, IPv4

[Create target group](#)

Listener tags - *optional*

Consider adding tags to your listener. Tags enable you to categorize your AWS resources so you can more easily manage them.

[Add listener tag](#)

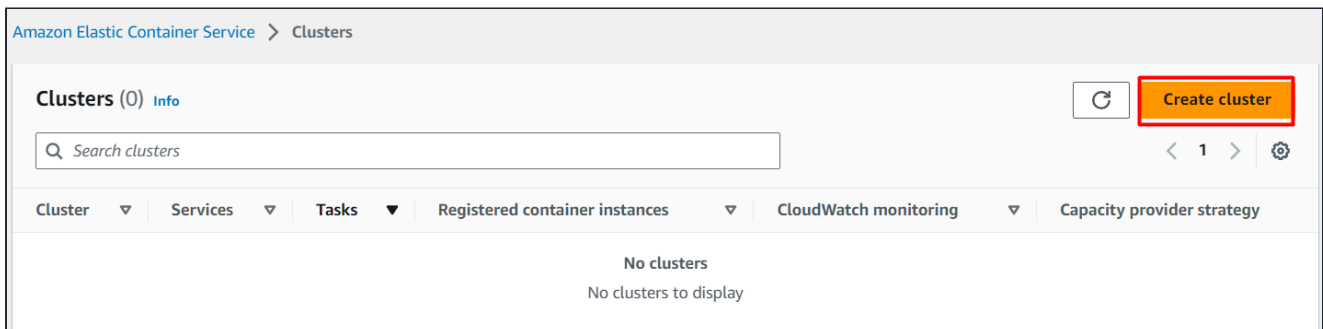
You can add up to 50 more tags.

9. Keep the tags as default and click on the **Create load balancer** button.

10. **You have successfully created the Application Load balancer.** Click on the **View load balancers** button. Wait for 2 to 3 minutes for the load balancer to become **Active**.

Task 5: Launching an ECS Cluster

1. Navigate to **Elastic Container Service** by clicking on the **Services** menu in the top, then click on **Elastic Container Service** in the **Containers** section.
2. On the left sidebar, click on the **Clusters** option present under the **Amazon ECS** section.
3. Click on **Create cluster** button.



Amazon Elastic Container Service > Clusters

Clusters (0) [Info](#) ↺ Create cluster

< 1 > ⚙

Cluster ▼ Services ▼ Tasks ▼ Registered container instances ▼ CloudWatch monitoring ▼ Capacity provider strategy

No clusters

No clusters to display

4. Create cluster:

- For **Step 1: Cluster Configuration**
 - Cluster name: Enter **whiz**

Cluster configuration

Cluster name

whiz

There can be a maximum of 255 characters. The valid characters are letters (uppercase and lowercase), numbers,

- For **Step 2: In Infrastructure** Section :
 - **Check** Amazon EC2 Instances checkbox:
 - Auto Scaling group (ASG) : Select **Create new ASG**
 - Operating System/Architecture : Select **Amazon Linux 2**
 - EC2 instance type : Select **t2.small**
 - Desired capacity :
 - Minimum : Enter **1**
 - Maximum : Enter **3**
 - SSH Key pair: Select **WhizKeyPair**
 - For Step 3: In **Networking** section:
 - VPC: Keep it as default.
 - Subnets: **Select all the subnets**

▼

Networking

Info

By default tasks and services run in the default subnets for your default VPC. To use the non-default VPC, specify the VPC and subnets.

VPC

Use a VPC with public and private subnets. By default, VPCs are created for your AWS account. To create a new VPC, go to the [VPC Console](#).

vpc-a14622dc

Default VPC | default

▼

Subnets

Select the subnets where your tasks run. We recommend that you use three subnets for production.

Choose subnets

▼

subnet-17df9771

✕

us-east-1d 172.31.0.0/20

subnet-07f3a658

✕

us-east-1c 172.31.32.0/20

subnet-0ea6be43

✕

us-east-1b 172.31.16.0/20

subnet-4f76206e

✕

us-east-1a 172.31.80.0/20

subnet-52e67963

✕

us-east-1e 172.31.48.0/20

subnet-3f9e9c31

✕

us-east-1f 172.31.64.0/20

Default namespace - optional

Select the namespace to specify a group of services that make up your application. You can overwrite this value at the service level.

Q whiz

✕

- Click on the **Create** button to create the **whiz ECS cluster**. **Whiz ECS Cluster will be created with 1 Container instances.**

Task 6: Create Task Definitions

- On the left sidebar, click on the **Task Definitions** option present under the **Amazon ECS** section.
- Click on the **Create new Task Definition** button.

Task definitions (0)

Info

↺

Deploy ▼

Create new revision ▼

Create new task definition ▲

Q Filter task definitions

Filter by status

Active ▼

Create new task definition

Create new task definition with JSON

Task definition ▼

Status of last revision ▼

No task definitions

No task definitions to display.

Create new task definition

- Configure task definition and containers:

- For **Step 1: Task definition configuration**
 - Task definition family : Enter **ecs-whiz**

Configure task definition and containers

Task definition configuration

Task definition family [Info](#)

Specify a unique task definition family name.

ecs-whiz

Up to 255 letters (uppercase and lowercase), numbers, hyphens, and underscores are allowed.

- For **Step 2: Infrastructure requirements**
 - App Environment: **Remove AWS Fargate** and Select **Amazon EC2 Instances**
 - Network Mode: Select **Bridge**
 - In the **Task size** section,
 - CPU: **.25 vCPU**
 - Memory: **.5 GB**

▼ Infrastructure requirements
Specify the infrastructure requirements for the task definition.

Launch type [Info](#)
Selection of the launch type will change task definition parameters.

☐ AWS Fargate
Serverless compute for containers.

☒ **Amazon EC2 instances**
Self-managed infrastructure using Amazon EC2 instances.

OS, Architecture, Network mode
Network mode is used for tasks and is dependent on the compute type selected.

Operating system/Architecture [Info](#)
Linux/X86_64

Network mode [Info](#)
bridge

Task size [Info](#)
Specify the amount of CPU and memory to reserve for your task.

CPU
.25 vCPU

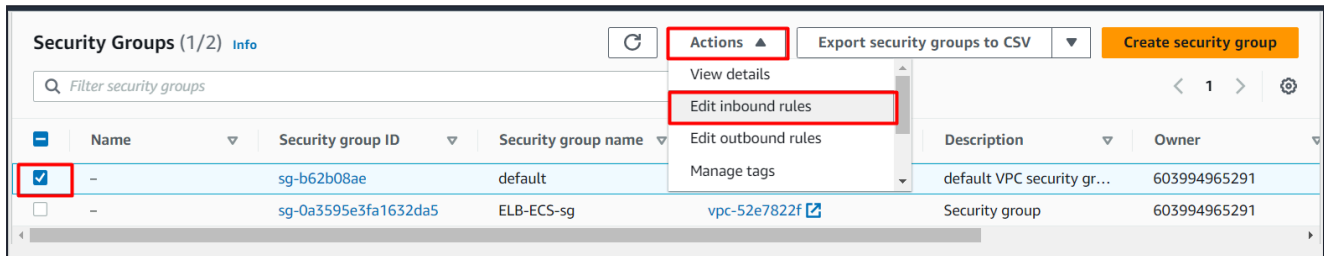
Memory
.5 GB

- For **Step 3: Container – 1:**
 - Name: Enter **httpd**
 - Image URI: Enter **httpd:latest**
 - In the **Port mappings** field, fill the following information:
 - Container port: Enter **80**
 - Protocol: **TCP**
 - App Protocol: Select **None**
 - Scroll down and Click on **Create button**.

4. Task Definition **ecs-whiz** is now created.

Task 7: Update the default security group

1. Make sure you are in the **N.Virginia** Region.
2. Navigate to **EC2** by clicking on the **Services** menu available under the **Compute** section.
3. On the left panel menu, Select the **Security Groups** under the **Network & Security** section.
4. Select the default security group and go to **Actions** and click on **Edit inbound rules**.



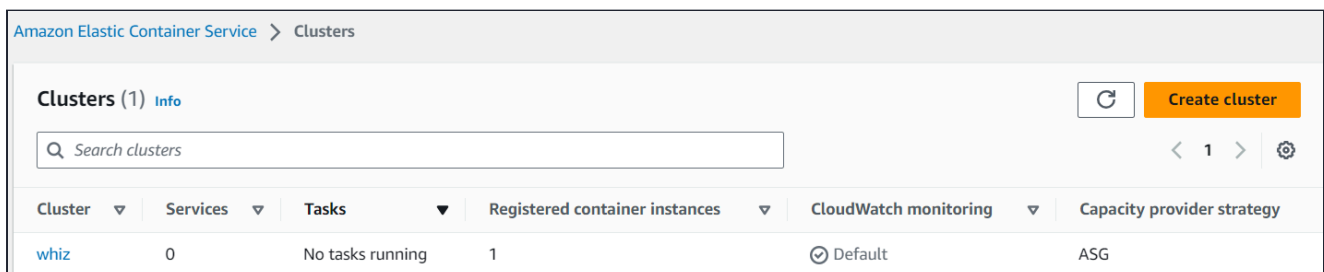
5. Scroll down and Click on **Add Rule** button.

- Type : Select **ALL TCP**
- Source : Select **Custom**
- In the textbox add **0.0.0.0/0**

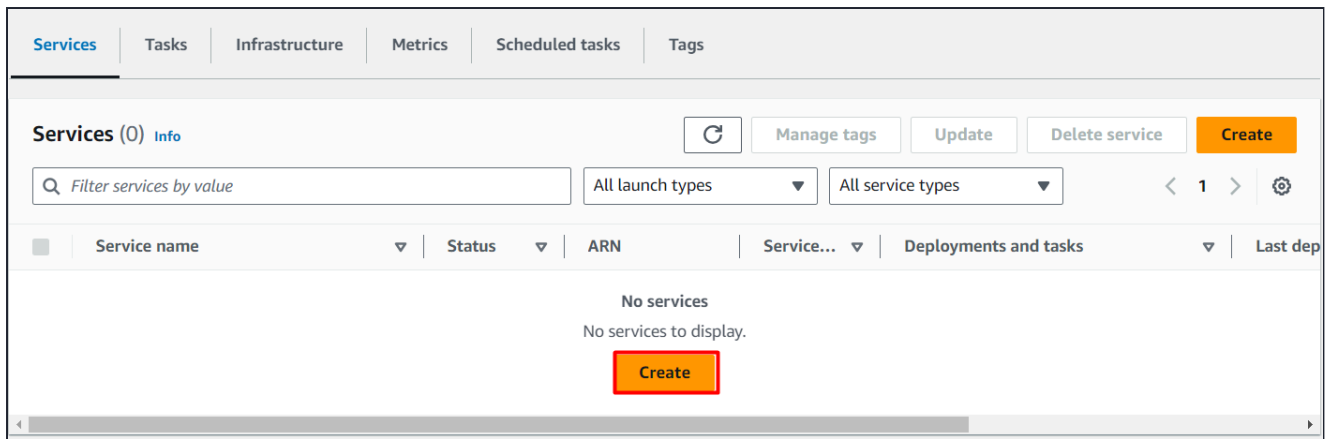
6. Click on **Save rules** button.

Task 8: Create a Service and start HTTPD container in ECS

1. On the left sidebar, click on the **Clusters** option present under the **Amazon ECS** section.
2. whiz ECS Cluster will be listed here, Click on the whiz.



3. To create a service, click on the **Create** button.



4. For Step 1: Environment

- Compute options: Select **Launch Type**
- Launch type: Select **EC2**

Environment

Amazon EC2

Existing cluster

Select an existing cluster. To create a new cluster, go to [Clusters](#).

whiz

▼ Compute configuration (advanced)

Compute options [Info](#)

To ensure task distribution across your compute types, use appropriate compute options.

☐ Capacity provider strategy
Specify a launch strategy to distribute your tasks across one or more capacity providers.

☒ Launch type
Launch tasks directly without the use of a capacity provider strategy.

Launch type [Info](#)

Select either managed capacity (Fargate), or custom capacity (EC2 or user-managed, External instances). External instances are registered to your cluster using the ECS Anywhere capability.

EC2 ▼

- Family: **ecs-whiz**
- Revision: **1 (latest)**. [It can be different for you]
- Service name: Enter **httpd-ecs**
- Service type: **REPLICA**
- Desired tasks: **1**

Task definition
Select an existing task definition. To create a new task definition, go to [Task definitions](#).

☐ **Specify the revision manually**
Manually input the revision instead of choosing from the 100 most recent revisions for the selected task definition family.

Family
ecs-whiz

Revision
1 (LATEST)

Service name
Assign a unique name for this service.
httpd-ecs

Service type | [Info](#)
Specify the service type that the service scheduler will follow.

☒ **Replica**
Place and maintain a desired number of tasks across your cluster.

☐ **Daemon**
Place and maintain one copy of your task on each container instance.

Desired tasks
Specify the number of tasks to launch.
1

5. Under **Load balancing**

- Load balancer type: Select **Application Load Balancer**
- Application Load Balancer: Select **Use an existing load balancer**
- Load balancer : Select **httpd-LB**
- Listener: Choose **Use an existing Listener**
- **Listener port** : Choose **80:HTTP**
- **Target group**: Select **Use an existing target group**
- Target group name: Select **ecs-tg**

Configure this service in a namespace to create and resolve endpoints. Services can resolve endpoints within the same namespace without task or application configuration.

☐ Turn on Service Connect [Info](#)
Turn off Service Connect to remove the configuration.

► **Load balancing - optional**

► **Service auto scaling - optional**
Automatically adjust your service's desired count up and down within a specified range in response to CloudWatch alarms. You can modify your service auto scaling configuration at any time to meet the needs of your application.

► **Task Placement** [Info](#)
Lets you customize how tasks are placed on instances within your cluster. Different placement strategies are available to optimize for availability and efficiency.

► **Tags - optional** [Info](#)
Tags help you to identify and organize your resources.

[Cancel](#) [Create](#)

6. For Step 3: Set Auto Scaling (optional),

- **Check the Use Service Auto Scaling checkbox**
- Minimum number of Tasks: **1**
- Maximum number of Tasks: **3**
- Scaling policy type: **Target tracking**

▼ Service auto scaling - optional

Automatically adjust your service's desired count up and down within a specified range in response to CloudWatch alarms. You can modify your service auto scaling configuration at any time to meet the needs of your application.

☒ Use service auto scaling
Configure service auto scaling to adjust your service's desired count

Minimum number of tasks

The lower boundary to which service auto scaling can adjust the desired count of the service.

1

Maximum number of tasks

The upper boundary to which service auto scaling can adjust the desired count of the service.

3

Scaling policy type [Info](#)

Create either a target tracking or step scaling policy.

☒ Target tracking
Increase or decrease the number of tasks that your service runs based on a target value for a specific metric.

☐ Step scaling
Increase or decrease the number of tasks that your service runs based on a set of scaling adjustments, known as step adjustments, that vary based on the size of the alarm breach.

- Policy name: Enter **WhizPolicy**
- ECS Service metric: **ALBRequestCountPerTarget**
- Target value: **1000**
- Scale-out cooldown period: **60** seconds between scaling actions
- Scale-in cooldown period: **60** seconds between scaling actions

Policy name

WhizPolicy

ECS service metric

ALBRequestCountPerTarget

Target value

1000

Scale-out cooldown period

60

Scale-in cooldown period

60

7. Click on **Create** button.

The screenshot shows the 'Services' tab in the AWS Management Console. At the top, there are tabs for 'Services', 'Tasks', 'Infrastructure', 'Metrics', 'Scheduled tasks', and 'Tags'. The 'Services' tab is selected. Below the tabs, there's a header 'Services (1) Info' with buttons for 'Manage tags', 'Update', 'Delete service', and 'Create'. A search bar 'Filter services by value' is present. Below the search bar, there are dropdowns for 'All launch types' and 'All service types'. A table lists the services, with 'whiz-service12' highlighted. The table columns are 'Service name', 'Status', 'ARN', 'Service...', and 'Deployments and tasks'. The 'whiz-service12' row shows 'Active' status, an ARN, and a progress bar indicating '1/1 Tasks running'.

Task 9: Navigate to the cluster instance

1. On the left sidebar, click on the **Clusters** option present under the **Amazon ECS** section.
2. **whiz** ECS Cluster will be listed here, Click on the **whiz** cluster.

The screenshot shows the 'whiz' ECS cluster details page. At the top, there's a breadcrumb 'Amazon Elastic Container Service > Clusters > whiz > Services'. The 'whiz' cluster is highlighted. Below the cluster name, there are buttons for 'Update cluster' and 'Delete cluster'. The 'Cluster overview' section shows the following details:

ARN	Status	CloudWatch monitoring	Registered container instances
whiz	Active	Default	1

Below this, there's a table for 'Services' and 'Tasks':

Services	Tasks
Draining: -	Pending: -
Active: 1	Running: 1

3. To view the ECS Instance, Navigate to **Infrastructure** tab and scroll down to see the **Container instances**. Click on the **Instance ID**.

The screenshot shows the 'Infrastructure' tab in the AWS Management Console. At the top, there are tabs for 'Services', 'Tasks', 'Infrastructure', 'Metrics', 'Scheduled tasks', and 'Tags'. The 'Infrastructure' tab is selected. Below the tabs, there's a header 'Capacity providers (3) Info' with buttons for 'Update', 'Delete', and 'Create'. A search bar 'Filter capacity providers by property or value' is present. Below the search bar, there are dropdowns for 'All launch types' and 'All service types'. A table lists the capacity providers, with 'Infra-ECS-Cluster-whiz...' highlighted. The table columns are 'Capacity provider', 'Type', 'ASG', 'Mana...', 'Mana...', 'Curre...', 'Desir...', and 'Min s...'. The 'Infra-ECS-Cluster-whiz...' row shows 'ASGProvider' type, 'Infra-ECS-Clus...' ASG, and 'Yes' for 'Mana...'. Below this, there's a section for 'Container instances (1) Info' with buttons for 'Register external instances' and 'Actions'. A search bar 'Filter container instances by property or value' is present. Below the search bar, there are dropdowns for 'All launch types' and 'All service types'. A table lists the container instances, with '9e2af2ef5705433f...' highlighted. The table columns are 'Container instance', 'Status', 'Type', 'Instance ID', 'Capacit...', 'Availability zo...', 'Running tasks...', and 'CP'. The '9e2af2ef5705433f...' row shows 'Active' status, 'EC2' type, and 'i-0ff84619111a...' Instance ID.

Task 10: SSH into the underlying EC2 instance

1. Please follow the steps in [SSH into EC2 Instance](#)

Task 11: Trigger scaling activity

1. Get the root access using the following command:

```
sudo su
```



2. Now run the updates using the following command:

```
yum -y update
```



3. Check the Docker version by running the following command:

```
docker version
```



4. Check all the docker processes running in the ECS Cluster

```
docker ps
```



- Install **httpd-tools** for ApacheBench (**ab**) utility to make thousands of HTTP requests to your load balancer in a short period of time.

```
yum install -y httpd-tools
```



- Run the following command, **substituting your load balancer's DNS name**.

```
ab -n 1000000 -c 1000 http://httpd-lb-558473488.us-east-1.elb.amazonaws.com/
```



- **While substituting your load balancers name make sure to add / at the end**
- Wait for your **ab** HTTP requests to trigger the scale-out alarm in the CloudWatch console. You should see your Amazon ECS service scale-out and add two tasks to your service's desired count. Shortly after your **ab** HTTP requests complete (between 1 and 2 minutes), your scale in alarm should trigger and the scale in policy reduces your service's desired count back to 1.
- Scaling activity might take longer than 5 minutes.

```
[root@ip-172-31-91-84 ec2-user]# ab -n 100000 -c 1000 http://httpd-lb-558473488.us-east-1.elb.amazonaws.com/
This is ApacheBench, Version 2.3 <$Revision: 1879490 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking httpd-lb-558473488.us-east-1.elb.amazonaws.com (be patient)
Completed 10000 requests
Completed 20000 requests
```

Task 12: Check the scaling activities in service events

1. On the left sidebar, click on the **Clusters** option present under the **Amazon ECS** section.
2. **whiz** ECS Cluster will be listed here, Click on the **whiz** cluster.
3. You can see the running tasks are 3 now.

The screenshot shows the 'whiz' ECS cluster overview. The 'Running' task count is highlighted with a red box, showing 3 tasks.

Cluster overview			
ARN whiz	Status Active	CloudWatch monitoring Default	Registered container instances 1
Services Draining	Active 1	Tasks Pending	Running 3

4. Scroll down and click on the service

5. Navigate to the Events tab, Autoscaling has triggered the Alarm, and the desired count is now 3.

The screenshot shows the 'Events' tab for the 'whiz' cluster. The 'Events' tab is highlighted with a red box. The event list shows a message: 'service whiz-service3 has reached a steady state.' and another message: 'Message: Successfully set desired count to 3. Change successfully fulfilled by ecs. Cause: monitor alarm TargetTracking-service/whiz/whiz-service3-AlarmHigh-50a7d4cc-b632-4af9-9abd-ca2907a16b6f in state ALARM triggered policy test-whiz2'.

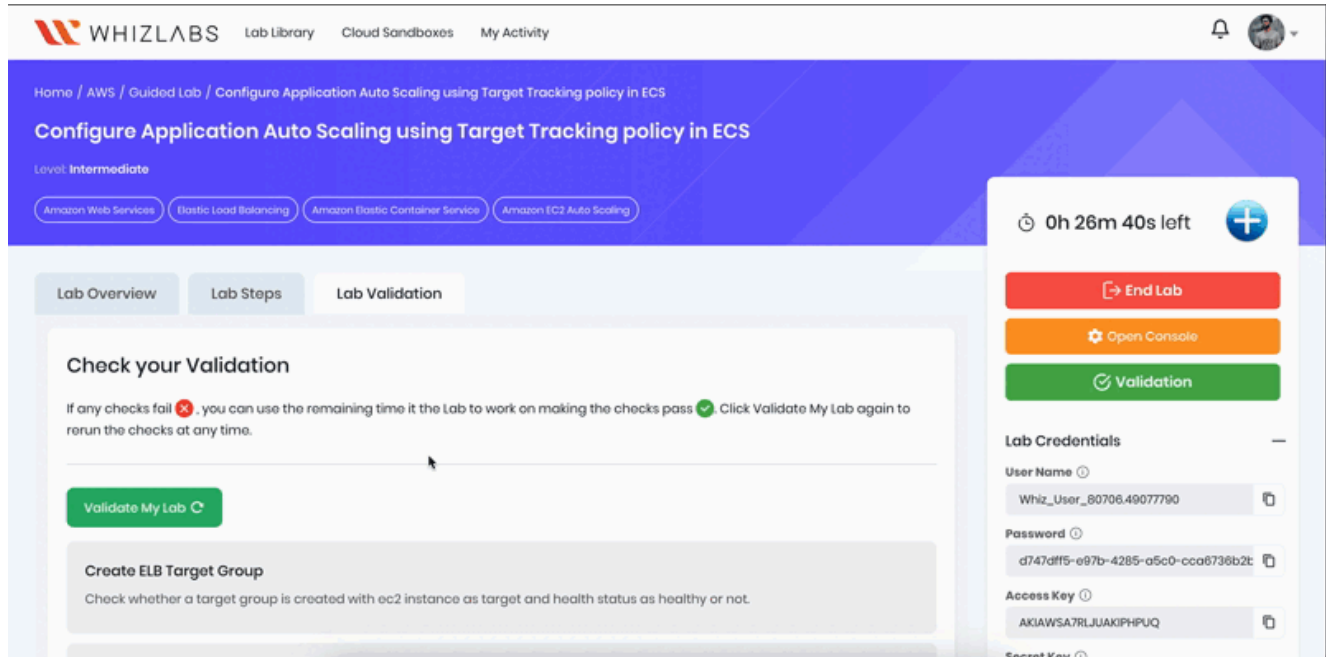
Started at	Message	Event ID
September 14, 2023 at 11:39 (UTC+5:30)	service whiz-service3 has reached a steady state.	588ca579-1f91-4d4d-bd17-6ae939203f96
September 14, 2023 at 11:34 (UTC+5:30)	service whiz-service3 registered 1 targets in target-group ecs-tg	c56814a7-e5e3-4590-8246-53cecfbd5a
September 14, 2023 at 11:34 (UTC+5:30)	service whiz-service3 has started 2 tasks: task dc594ec3c9ba4224b4e12c46bfb9636 task c86a63accc12450e9d0d0d3db856c9ad.	6a3e48e5-4f33-428a-89f1-25bee22e3592
September 14, 2023 at 11:34 (UTC+5:30)	service whiz-service3 registered 1 targets in target-group ecs-tg	52525c3a-68f2-436b-9389-242cf93ec0a2
September 14, 2023 at 11:33 (UTC+5:30)	Message: Successfully set desired count to 3. Change successfully fulfilled by ecs. Cause: monitor alarm TargetTracking-service/whiz/whiz-service3-AlarmHigh-50a7d4cc-b632-4af9-9abd-ca2907a16b6f in state ALARM triggered policy test-whiz2	5d1d0681-c650-4e41-9423-49d588dd1858

Do you know?

Behind the scenes, ECS target tracking policies leverage CloudWatch alarms to monitor the specified metrics. When the metric breaches the defined target, ECS takes scaling actions accordingly.

Task 13: Validation test

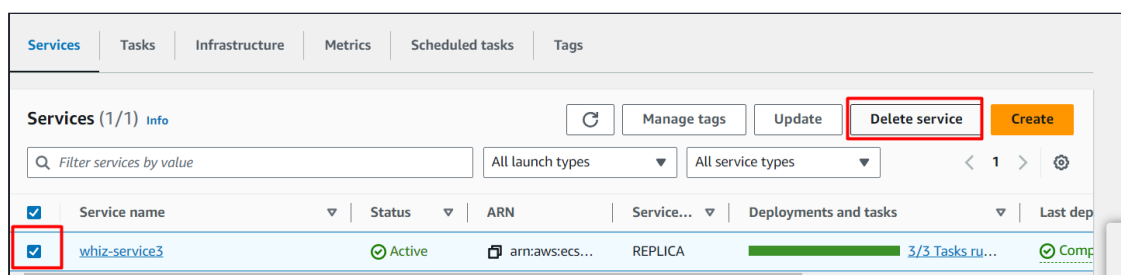
1. Once the lab steps are completed, please click on the **Validation** button on the right-side panel.
2. This will validate the resources in the AWS account and displays whether you have completed this lab successfully or not.
3. Sample output :



Task 14: Delete AWS resources

14.1 Deleting ECS Cluster Service

1. On the left sidebar, click on the **Clusters** option present under the **Amazon ECS** section.
2. whiz ECS Cluster will be listed here, Click on the **whiz**.
3. To delete the service, do the following task:
 - Select the present Service,
 - Click on the **Delete service** button.



4. Check the **Force delete** checkbox. Confirm the deletion by typing the **delete** phrase in the required field, and click on the Delete button.

Delete whiz-service3 service?

Delete whiz-service3 permanently? This action cannot be undone.

Any CloudFormation stacks associated with services will also be deleted.

The service must be scaled down to zero before it can be deleted.

Alternatively, you can use the force delete service option to have Amazon ECS scale the service down on your behalf before deleting it.

☒ Force delete

To confirm deletion, enter *delete* in the text input field.

delete

Cancel Delete

14.2 Deleting ECS Cluster

1. Click on the **Delete Cluster** option.

[Amazon Elastic Container Service](#) > [Clusters](#) > [whiz](#) > Services

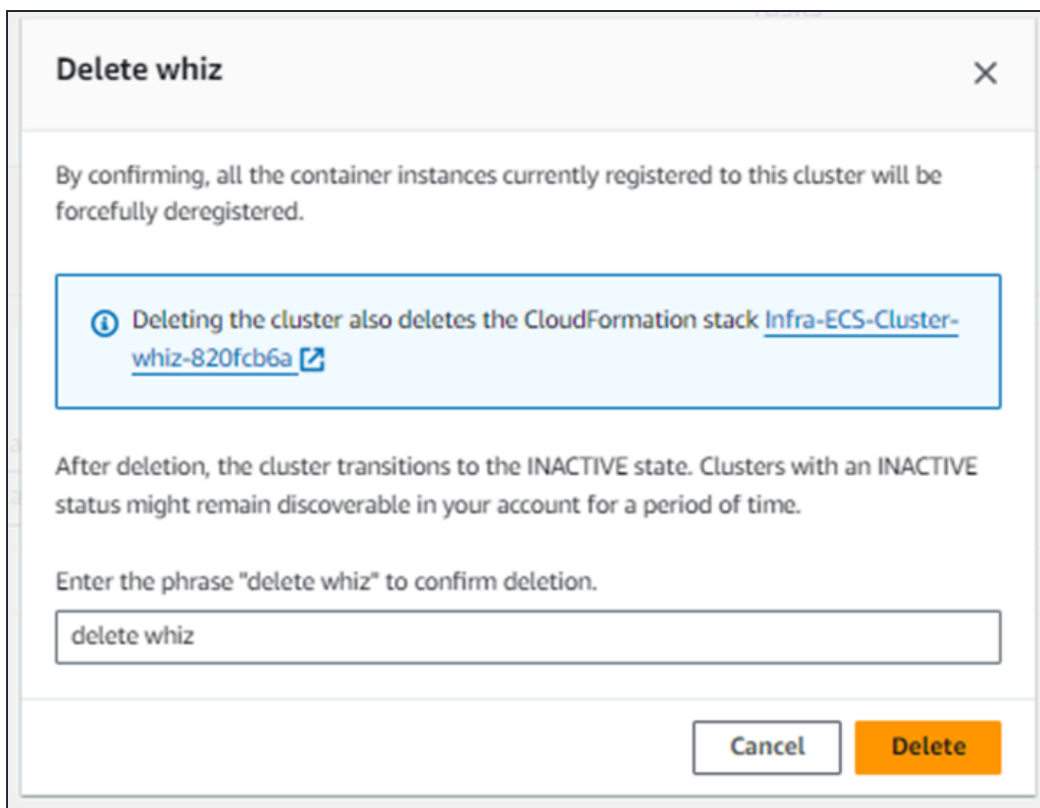
whiz ASG

Update cluster Delete cluster

Cluster overview

ARN	Status	CloudWatch monitoring	Registered container instances
whiz	Active	Default	1
Services	Tasks		
Draining	Active	Pending	Running
-	1	-	3

2. Confirm the deletion by entering the phrase **delete me** in the pop-up window. Click on **Delete** button.



3. Deletion will take up to 3 minutes.

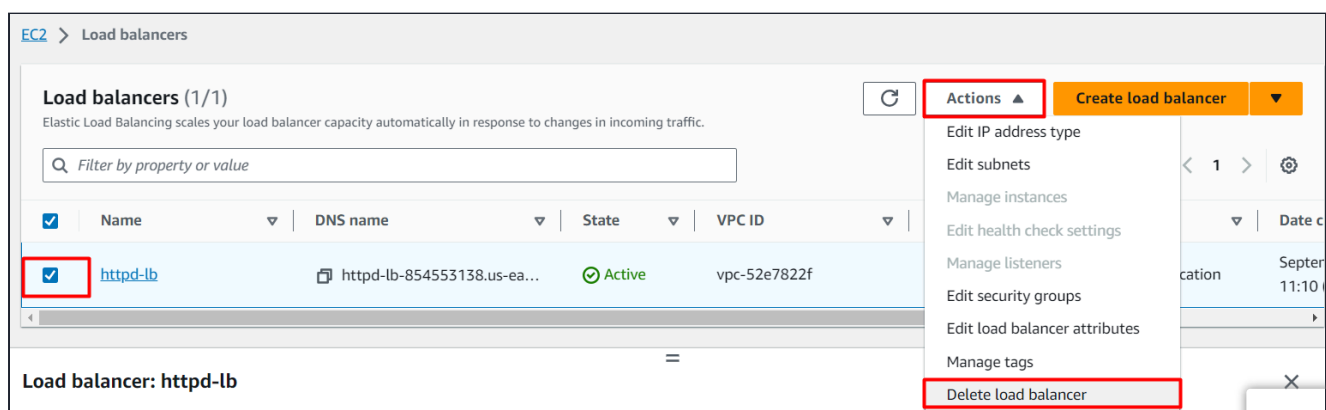
14.3 Deleting Load balancer

1. In the EC2 console, navigate to **Load Balancer** in the left-side panel.

2. **httpd-LB** will be listed here.

3. To **delete** the load balancer, need to perform the following actions:

- **Select** the load balancer,
- Click on the **Actions** button.
- Select the **Delete load balancer** option.



4. Type **confirm** and click on **Delete** button. **httpd-LB** will be deleted immediately.

14.4 Deleting Target group

1. In the EC2 console, navigate to **Target Groups** in the left-side panel.
2. **ecs-TG** will be listed here.
3. To **delete** the target group, need to perform the following actions:
 - **Select** the target group,
 - Click on the **Actions** button.
 - Select the **Delete** option.
4. Confirm by clicking on the **Yes, Delete** button when a pop-up is shown.
5. The target group will be deleted immediately.

Completion and Conclusion

1. You have successfully created and launched Amazon ECS Cluster.
2. You have successfully created an HTTPD container.
3. You have successfully created an Application load balancer and Target group.
4. You have successfully created an auto-scaling and triggered the activity.

End Lab

1. Sign out of AWS Account.
2. You have successfully completed the lab.
3. Once you have completed the steps, click on **End Lab** from your Whizlabs lab console and wait till the process gets completed.

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