

# Assignment 14: Create an Elastic IP for an instance

**Step 1-**Go to EC2 and create an EC2 instance.

EC2 > Instances > i-08de656bdf1b5377c

Instance summary for i-08de656bdf1b5377c (inst1) Info

Updated less than a minute ago

Instance ID

i-08de656bdf1b5377c (inst1)

Public IPv4 address

65.2.29.96 | [open address](#)

IPv6 address

-

Instance state

Running

**Step 2-**Start the instance, stop and then restart it.

Instance state ▲

Stop instance

Start instance

Reboot instance

Hibernate instance

Terminate instance

<input checked="" type="checkbox"/>	Name ▼	Instance ID	Instance state ▼
<input checked="" type="checkbox"/>	inst1	i-08de656bdf1b5377c	Stopped 🔍

**Step 3-**It is noticed that the IPv4 changes everytime.

Instance state ▲

Force stop instance

Start instance

Reboot instance

Hibernate instance

Terminate instance

Instance summary for i-08de656bdf1b5377c (inst1) Info

Updated less than a minute ago

Instance ID

i-08de656bdf1b5377c (inst1)

Public IPv4 address

65.0.95.41 | [open address](#)

IPv6 address

-

Instance state

Running

**Step 4-**Go to EC2 Dashboard

Resources

EC2 Global view

You are using the following Amazon EC2 resources in the Asia Pacific (Mumbai) Region:

Instances (running)	1	Auto Scaling Groups	0	Dedicated Hosts	0
Elastic IPs	1	Instances	1	Key pairs	3
Load balancers	0	Placement groups	0	Security groups	5
Snapshots	0	Volumes	1		

**Step 5-**Choose Elastic IPs then Allocate Elastic IP address.

**Elastic IP address settings** [Info](#)

Network Border Group [Info](#)

Public IPv4 address pool

- ☒ Amazon's pool of IPv4 addresses
- ☐ Public IPv4 address that you bring to your AWS account (option disabled because no pools found) [Learn more](#)
- ☐ Customer owned pool of IPv4 addresses (option disabled because no customer owned pools found) [Learn more](#)

Global static IP addresses

AWS Global Accelerator can provide global static IP addresses that are announced worldwide using anycast from AWS edge locations. This can help improve the availability and latency for your user traffic by using the Amazon global network. [Learn more](#)

[Create accelerator](#)

**Tags - optional**

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.

[Add new tag](#)

You can add up to 50 more tag

[Cancel](#) [Allocate](#)

**Step 6-**Settings as default and click allocate.

**Elastic IP addresses (1/1)**

[Refresh](#) [Actions](#) [Allocate Elastic IP address](#)

[<](#) [1](#) [>](#) [Settings](#)

**Step 7-**Click on the Elastic IP -> Associate Elastic IP address.

**Step 8-**Resource type-instance, private IP address, select checkbox, Associate.

**Elastic IP address: 13.235.200.192**

Resource type

Choose the type of resource with which to associate the Elastic IP address.

- ☒ Instance
- ☐ Network interface

**⚠** If you associate an Elastic IP address with an instance that already has an Elastic IP address associated, the previously associated Elastic IP address will be disassociated, but the address will still be allocated to your account. [Learn more](#)

If no private IP address is specified, the Elastic IP address will be associated with the primary private IP address.

Instance

Private IP address

The private IP address with which to associate the Elastic IP address.

Reassociation

Specify whether the Elastic IP address can be reassociated with a different resource if it already associated with a resource.

- ☒ Allow this Elastic IP address to be reassociated

[Cancel](#) [Associate](#)

**Step 9**-Check instance. Elastic IP has become public IPv4

EC2 > Instances > i-08de656bdf1b5377c

**Instance summary for i-08de656bdf1b5377c (inst1)** Info  
Updated less than a minute ago

Instance ID: i-08de656bdf1b5377c (inst1)

IPv6 address: -

Hostname type: IP name: ip-172-31-42-55.ap-south-1.compute.internal

Answer private resource DNS name: IPv4 (A)

Auto-assigned IP address: -

IAM Role: -

IMDSv2: Optional

Public IPv4 address: 13.235.200.192 | open address

Instance state: **Running**

Private IP DNS name (IPv4 only): ip-172-31-42-55.ap-south-1.compute.internal

Instance type: t2.micro

VPC ID: vpc-006eb64b85dd2193a

Subnet ID: subnet-037a4a7e45c750fcb

Private IPv4 addresses: 172.31.42.55

Public IPv4 DNS: ec2-13-235-200-192.ap-south-1.compute.amazonaws.com | open address

Elastic IP addresses: 13.235.200.192 [Public IP]

AWS Compute Optimizer finding: Opt-in to AWS Compute Optimizer for recommendations. | Learn more

Auto Scaling Group name: -

**Step 10**-Now go to EC2 Dashboard

**Step 11**-Again stop the instance.

Instance state ▴

- Stop instance
- Start instance
- Reboot instance
- Hibernate instance
- Terminate instance

<input checked="" type="checkbox"/>	Name ▾	Instance ID	Instance state ▾
<input checked="" type="checkbox"/>	inst1	i-08de656bdf1b5377c	⊖ Stopped 🔍

**Step 12**-Start the instance.

Instance state ▴

- Force stop instance
- Start instance
- Reboot instance
- Hibernate instance
- Terminate instance

**Instance summary for i-08de656bdf1b5377c (inst1)** Info  
Updated less than a minute ago

Instance ID: i-08de656bdf1b5377c (inst1)

IPv6 address: -

Public IPv4 address: 13.235.200.192 | open address

Instance state: **Running**

THUS , AN ELASTIC IP ADDRESS HAS BEEN CREATED SUCCESSFULLY FOR THE INSTANCE.