

Assignment : 14

Title : Create an Elastic IP for an instance.

Step 1: Create an EC2 instance as we've created before.

Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags Info

Name: myec2 [Add additional tags](#)

Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below.

Search our full catalog including 1000s of application and OS images

Recents | **Quick Start**

Amazon Linux | macOS | **Ubuntu** | Windows | Red Hat | SUSE Linux | Debian

[Browse more AMIs](#)
Including AMIs from AWS, Marketplace and the Community

Summary

Number of instances: 1

Software Image (AMI): Canonical, Ubuntu, 24.04, amd64...[read more](#)
ami-0e35ddab05955cf57

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

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

[Cancel](#) [Launch instance](#) [Preview code](#)

Key pair name - required

mykey [Create new key pair](#)

Network settings Info [Edit](#)

Network: vpc-021f327247516bf8a

Subnet: No preference (Default subnet in any availability zone)

Auto-assign public IP: Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☒ Create security group ☐ Select existing security group

We'll create a new security group called 'launch-wizard-1' with the following rules:

- ☒ Allow SSH traffic from: Anywhere (0.0.0.0/0)
- ☒ Allow HTTPS traffic from the internet: To set up an endpoint, for example when creating a web server
- ☒ Allow HTTP traffic from the internet

[Cancel](#) [Launch instance](#) [Preview code](#)

Step 2: Go to instance and Restart (stop and then start again) the created instance.

Instances (1/1) Info

Find instance by attribute or tag (case-sensitive)

Instance ID = i-0e4feedd1c15da9d2 [Clear filters](#)

Name	Instance ID	Instance state	Instance type	Status
myec2	i-0e4feedd1c15da9d2	Running	t2.micro	Init

Actions

- Stop instance
- Start instance
- Reboot instance
- Hibernate instance
- Terminate (delete) instance

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

Instance summary Info

Instance ID: i-0e4feedd1c15da9d2

IPV6 address: -

Public IPv4 address: 52.66.242.142 [open address](#)

Instance state: Running

Private IPv4 addresses: 172.31.8.113

Public IPv4 DNS: ec2-52-66-242-142.ap-south-1.compute.amazonaws.com [open address](#)

Successfully initiated stopping of i-0e4feedd1c15da9d2

Instances (1/1) info

Find instance by attribute or tag (case-sensitive)

Instance ID = i-0e4feedd1c15da9d2

Clear filters

Connect

Instance state

Actions

Launch instances

Stop instance

Start instance

Reboot instance

Hibernate instance

Terminate (delete) instance

Name	Instance ID	Instance state	Instance type	Status	Availability Zone	Public IP
myec2	i-0e4feedd1c15da9d2	Stopped	t2.micro	Init	ap-south-1b	-

i-0e4feedd1c15da9d2 (myec2)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary info

Instance ID i-0e4feedd1c15da9d2

Public IPv4 address -

Private IPv4 addresses 172.31.8.113

IPv6 address -

Instance state Stopped

Public IPv4 DNS -

Hostname type -

Private IP DNS name (IPv4 only) -

Instance summary for i-0e4feedd1c15da9d2 (myec2) info

Updated less than a minute ago

Connect

Instance state

Actions

Instance ID i-0e4feedd1c15da9d2

Public IPv4 address 65.0.131.116 | open address

Private IPv4 addresses 172.31.8.113

IPv6 address -

Instance state Running

Public IPv4 DNS ec2-65-0-131-116.ap-south-1.compute.amazonaws.com | open address

Hostname type IP name: ip-172-31-8-113.ap-south-1.compute.internal

Private IP DNS name (IPv4 only) ip-172-31-8-113.ap-south-1.compute.internal

Answer private resource DNS name IPv4 (A)

Instance type t2.micro

Auto-assigned IP address 65.0.131.116 [Public IP]

VPC ID vpc-021f327247516bf8a

Elastic IP addresses -

IAM Role -

Subnet ID subnet-0645a9154debd190c

AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendation s. | Learn more

IMDSv2 Required

Instance ARN arn:aws:ec2:ap-south-1:867344440469:instance/i-0e4feedd1c15da9d2

Auto Scaling Group name -

Managed false

Step 3: Go to Elastic IPs and click on Allocate IP to create an Elastic IP and Associate it.

Elastic IP addresses

Find elastic IP addresses by attribute or tag

Allocate Elastic IP address

No Elastic IP addresses found in this Region

View IP address usage and recommendations to release unused IPs with Public IP insights.

EC2 > Elastic IP addresses > Allocate Elastic IP address

Allocate Elastic IP address

Elastic IP address settings

Public IPv4 address pool

Amazon's pool of IPv4 addresses

Public IPv4 address that you bring to your AWS account with BYOIP. (option disabled because no pools found) [Learn more](#)

Customer-owned pool of IPv4 addresses created from your on-premises network for use with an Outpost. (option disabled because no customer owned pools found) [Learn more](#)

Allocate using an IPv4 IPAM pool (option disabled because no public IPv4 IPAM pools with AWS service as EC2 were found)

Network border group

ap-south-1

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.

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EC2

Dashboard

EC2 Global View

Events

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Elastic IP address allocated successfully.

Elastic IP address 52.66.131.178

Associate this Elastic IP address

Elastic IP addresses (1)

Find elastic IP addresses by attribute or tag

Public IPv4 address : 52.66.131.178

	Name	Allocated IPv4 address	Type	Allocation ID	Reverse DNS record
	-	52.66.131.178	Public IP	eipalloc-04e5a393aed5a1d92	-

Allocate Elastic IP address

52.66.131.178

Actions Associate Elastic IP address

Summary

Allocated IPv4 address

52.66.131.178

Association ID

-

Network interface ID

-

Address pool

Amazon

Type

Public IP

Scope

VPC

Network interface owner account ID

-

Network border group

ap-south-1

Allocation ID

eipalloc-04e5a393aed5a1d92

Associated instance ID

-

Public DNS

-

Reverse DNS record

-

Private IP address

-

NAT Gateway ID

-

Tags(0)

Manage tags

Key

Value

No tags associated with this resource

Click the Manage tags button to add your first tag

Manage tags

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EC2 > Elastic IP addresses > 52.66.131.178 > Associate Elastic IP address

Associate Elastic IP address

Choose the instance or network interface to associate to this Elastic IP address (52.66.131.178)

Elastic IP address: 52.66.131.178

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

☒ Instance
☐ Network interface

Instance
i-0e4feedd1c15da9d2

Private IP address
The private IP address with which to associate the Elastic IP address.
172.31.8.113

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 4: Check the Instance IP has been changed as same as the newly created Elastic IP.

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EC2 > Instances > i-0e4feedd1c15da9d2

Instance summary for i-0e4feedd1c15da9d2 (myec2)

Updated less than a minute ago

Instance ID i-0e4feedd1c15da9d2	Public IPv4 address 52.66.131.178 open address	Private IPv4 addresses 172.31.8.113
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-52-66-131-178.ap-south-1.compute.amazonaws.com open address
Hostname type IP name: ip-172-31-8-113.ap-south-1.compute.internal	Private IP DNS name (IPv4 only) ip-172-31-8-113.ap-south-1.compute.internal	Elastic IP addresses 52.66.131.178 [Public IP]
Answer private resource DNS name IPv4 (A)	Instance type t2.micro	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendation Learn more
Auto-assigned IP address -	VPC ID vpc-021f327247516bf8a	Auto Scaling Group name -
IAM Role -	Subnet ID subnet-0645a9154debd190c	Managed false
IMDSv2 Required	Instance ARN arn:aws:ec2:ap-south-1:867344440469:instance/i-0e4feedd1c15da9d2	

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So, we've successfully Created an Elastic IP for an instance.

At last Delete(Disassociate > Release) the Elastic IP and the created instance.