

ELASTIC IP ADDRESS

Step 1 : Create a EC2 instance

While creating instance, in user data install httpd service

```
#!/bin/bash
```

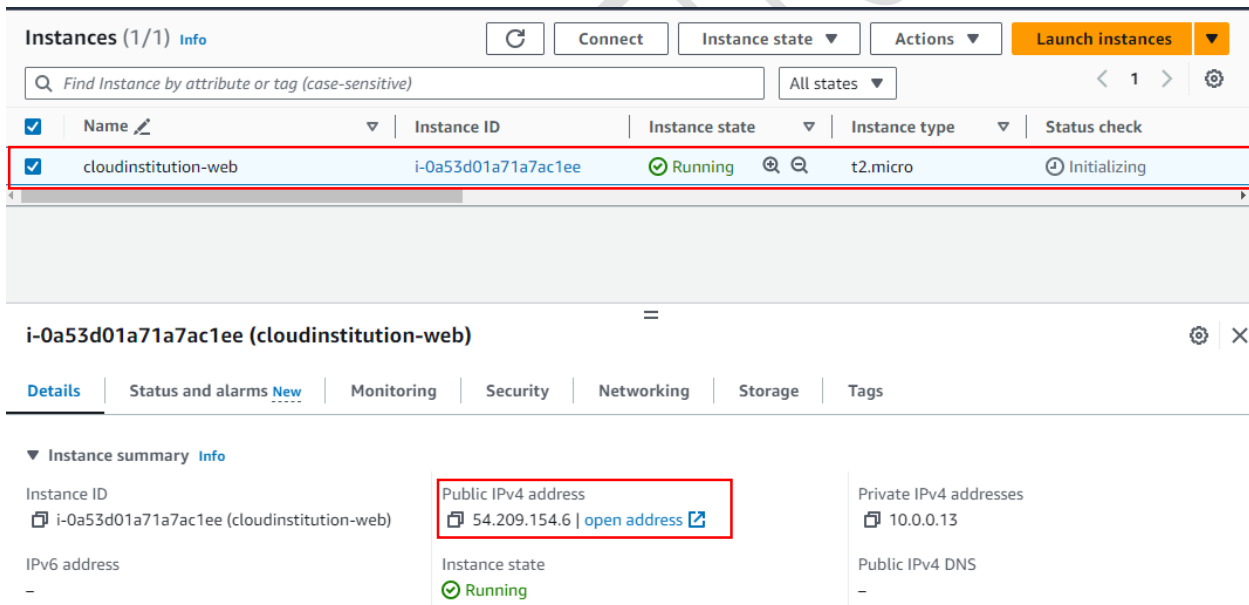
```
sudo yum install httpd -y
```

```
sudo service httpd start
```

```
sudo chkconfig httpd on
```

```
sudo echo "Welcome to Cloud Institution"> /var/www/html/index.html
```

Instance Created



The screenshot shows the AWS Management Console. At the top, there's a table of instances with one instance, 'cloudinstitution-web', in a 'Running' state. Below this, the details for this instance are shown. A red box highlights the 'Public IPv4 address' field, which contains the value '54.209.154.6'.

Name	Instance ID	Instance state	Instance type	Status check
cloudinstitution-web	i-0a53d01a71a7ac1ee	Running	t2.micro	Initializing

i-0a53d01a71a7ac1ee (cloudinstitution-web)

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

▼ Instance summary Info

Instance ID i-0a53d01a71a7ac1ee (cloudinstitution-web)	Public IPv4 address 54.209.154.6 open address	Private IPv4 addresses 10.0.0.13
IPv6 address -	Instance state Running	Public IPv4 DNS -

Copy and paste the public IP address and check it is working

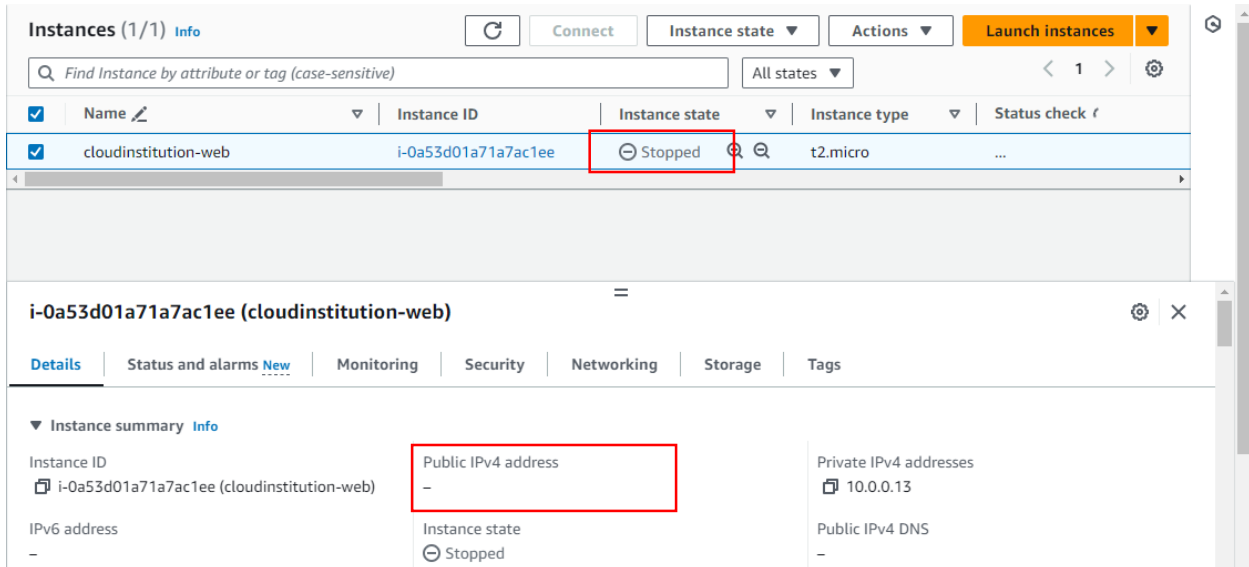


The screenshot shows a web browser address bar. A red box highlights the address '54.209.154.6'. Below the address bar, the text 'Welcome to Cloud Institution' is visible.

← → ↻ ⚠ Not secure 54.209.154.6

Welcome to Cloud Institution

Step 2 : Stop the EC2 instance



Instances (1/1) Info

Find Instance by attribute or tag (case-sensitive)

All states

Name	Instance ID	Instance state	Instance type	Status check
cloudinstitution-web	i-0a53d01a71a7ac1ee	Stopped	t2.micro	...

i-0a53d01a71a7ac1ee (cloudinstitution-web)

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

▼ Instance summary Info

Instance ID
i-0a53d01a71a7ac1ee (cloudinstitution-web)

Public IPv4 address
-

Private IPv4 addresses
10.0.0.13

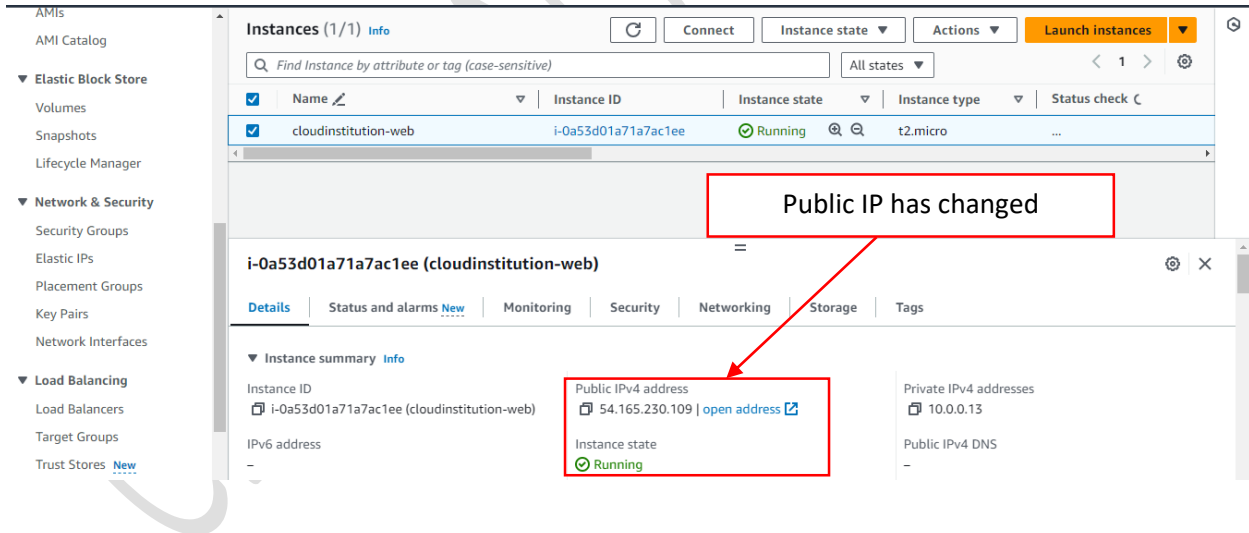
IPv6 address
-

Instance state
Stopped

Public IPv4 DNS
-

Step 3 : Again start your instance

Note : Everytime you stop and start the instance the public IP will change



Instances (1/1) Info

Find Instance by attribute or tag (case-sensitive)

All states

Name	Instance ID	Instance state	Instance type	Status check
cloudinstitution-web	i-0a53d01a71a7ac1ee	Running	t2.micro	...

i-0a53d01a71a7ac1ee (cloudinstitution-web)

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

▼ Instance summary Info

Instance ID
i-0a53d01a71a7ac1ee (cloudinstitution-web)

Public IPv4 address
54.165.230.109 | [open address](#)

Private IPv4 addresses
10.0.0.13

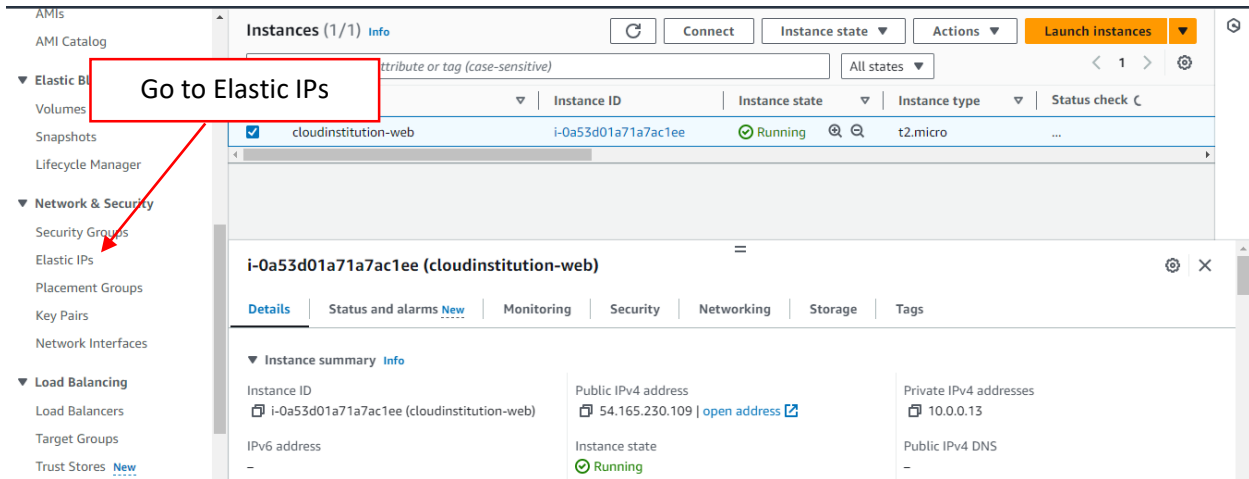
IPv6 address
-

Instance state
Running

Public IPv4 DNS
-

Public IP has changed

Step 4 : Allocate Elastic IP address to instance



Go to Elastic IPs

Instances (1/1) Info

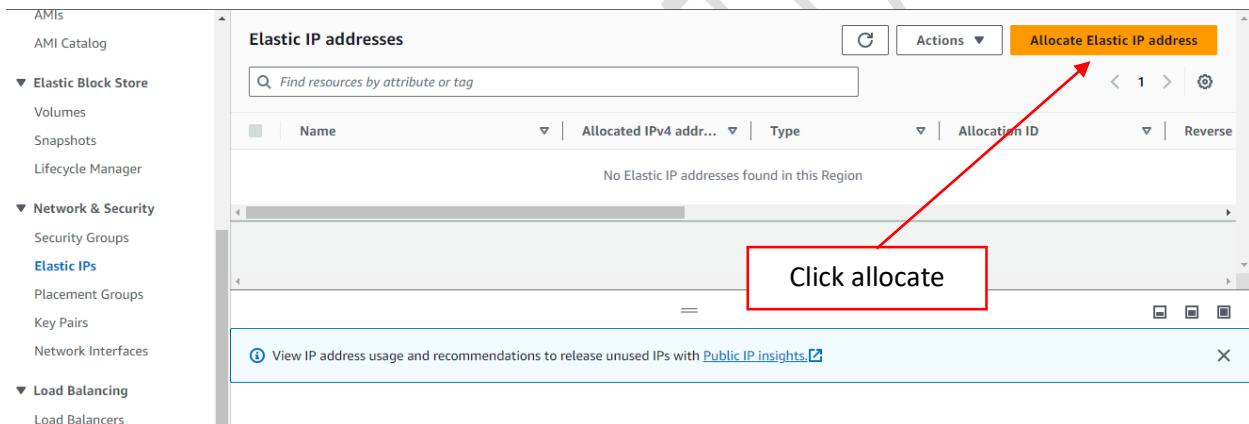
Instance ID	Instance state	Instance type	Status check
i-0a53d01a71a7ac1ee	Running	t2.micro	...

i-0a53d01a71a7ac1ee (cloudinstitution-web)

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

▼ Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0a53d01a71a7ac1ee (cloudinstitution-web)	54.165.230.109 open address	10.0.0.13
IPv6 address	Instance state	Public IPv4 DNS
-	Running	-



Elastic IP addresses

Find resources by attribute or tag

Name	Allocated IPv4 address	Type	Allocation ID	Reverse
No Elastic IP addresses found in this Region				

Click allocate

Allocate Elastic IP address

View IP address usage and recommendations to release unused IPs with [Public IP insights](#)

Allocate Elastic IP address [Info](#)

Select the region where you have created the instance

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 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](#)

Global static IP addresses

AWS Global Accelerator can provide global static IP addresses that are announced worldwide using anycast from AWS

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

Click allocate

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

✓ Elastic IP address allocated successfully.
Elastic IP address 34.230.110.106

Associate this Elastic IP address

Elastic IP addresses (1)

Find resources by attribute or tag

Public IPv4 address : 34.230.110.106

Clear filters

Click on allocate

Allocate Elastic IP address

Name	Allocated IPv4 address	Type	Allocation ID	Reverse
-	34.230.110.106	Public IP	eipalloc-08e5eee8110133bc8	-

EC2 > Elastic IP addresses > Associate Elastic IP address

Associate Elastic IP address

Choose the instance

Select the resource type

Elastic IP address: 34.230.110.106

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

Choose an instance

Instance

Q i-0a53d01a71a7ac1ee

Private IP address

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

Q 10.0.0.13

10.0.0.13


Allow this Elastic IP address to be reassociated

Select the instances' private IP and click associate

Select the created instance

Cancel Associate

Elastic Ip associated successfully

 **Elastic IP address associated successfully.**
Elastic IP address 34.230.110.106 has been associated with instance i-0a53d01a71a7ac1ee

Elastic IP addresses (1)

Find resources by attribute or tag

Public IPv4 address : 34.230.110.106

Clear filters

< 1 >

<input type="checkbox"/>	Name	Allocated IPv4 addr...	Type	Allocation ID	Reverse
<input type="checkbox"/>	-	34.230.110.106	Public IP	eipalloc-08e5eee8110133bc8	-

Step 5:

EC2 Dashboard
EC2 Global View
Events
Console-to-Code [Preview](#)

Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity
Reservations [New](#)

Images

Instances (1/1) Info

Find Instance by attribute or tag (case-sensitive)

All states

< 1 >

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check
<input checked="" type="checkbox"/>	cloudinstitution-web	i-0a53d01a71a7ac1ee	Running	t2.micro	2/2 checks passed

Associated IP address

i-0a53d01a71a7ac1ee (cloudinstitution-web)

Details | Status and alarms [New](#) | Monitoring | Security | Networking | Storage | Tags

Instance summary Info

Instance ID
i-0a53d01a71a7ac1ee (cloudinstitution-web)

IPv6 address
-

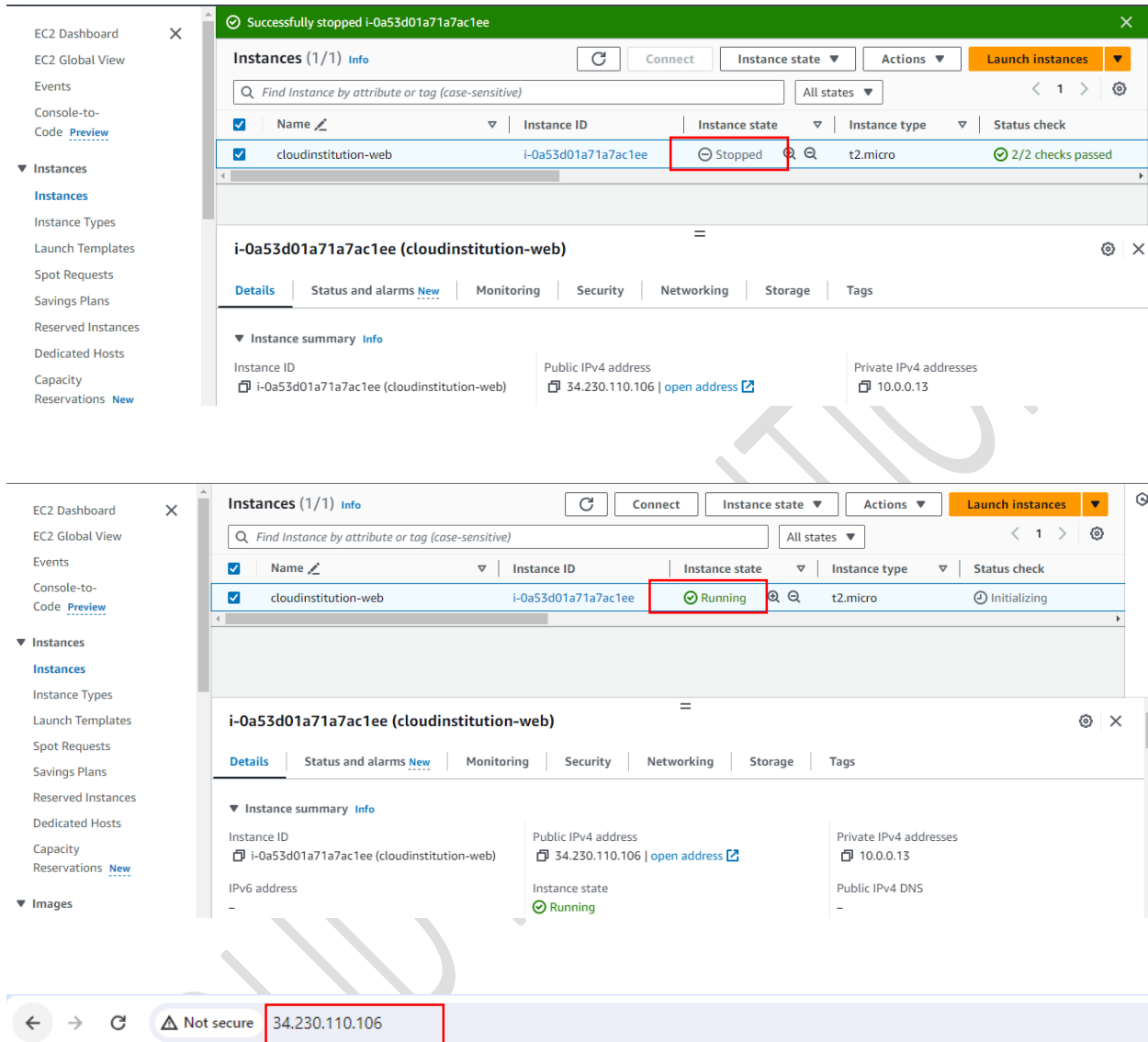
Public IPv4 address
34.230.110.106 | [open address](#)

Instance state
Running

Private IPv4 addresses
10.0.0.13

Public IPv4 DNS
-

Everytime you stop and start the instance the public IP wont change now



The screenshot displays the AWS Management Console interface for EC2 instances. The left sidebar shows navigation options like EC2 Dashboard, EC2 Global View, Events, Console-to-Code, and a list of instance types and templates. The main content area shows a notification 'Successfully stopped i-0a53d01a71a7ac1ee' and a table of instances. The instance 'cloudinstitution-web' (ID: i-0a53d01a71a7ac1ee) is highlighted with a red box around its 'Stopped' state. Below the table, the instance details for 'i-0a53d01a71a7ac1ee (cloudinstitution-web)' are shown, including its public IPv4 address 34.230.110.106. The bottom part of the image shows a browser address bar with the URL '34.230.110.106' highlighted by a red box, indicating the public IP of the instance.

EC2 Dashboard

EC2 Global View

Events

Console-to-Code [Preview](#)

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity

Reservations [New](#)

Instances (1/1) Info

Find Instance by attribute or tag (case-sensitive)

All states

1

Launch Instances

Name	Instance ID	Instance state	Instance type	Status check
cloudinstitution-web	i-0a53d01a71a7ac1ee	Stopped	t2.micro	2/2 checks passed

i-0a53d01a71a7ac1ee (cloudinstitution-web)

Details | Status and alarms [New](#) | Monitoring | Security | Networking | Storage | Tags

▼ Instance summary Info

Instance ID

i-0a53d01a71a7ac1ee (cloudinstitution-web)

Public IPv4 address

34.230.110.106 | [open address](#)

Private IPv4 addresses

10.0.0.13

Instances (1/1) Info

Find Instance by attribute or tag (case-sensitive)

All states

1

Launch Instances

Name	Instance ID	Instance state	Instance type	Status check
cloudinstitution-web	i-0a53d01a71a7ac1ee	Running	t2.micro	Initializing

i-0a53d01a71a7ac1ee (cloudinstitution-web)

Details | Status and alarms [New](#) | Monitoring | Security | Networking | Storage | Tags

▼ Instance summary Info

Instance ID

i-0a53d01a71a7ac1ee (cloudinstitution-web)

Public IPv4 address

34.230.110.106 | [open address](#)

Private IPv4 addresses

10.0.0.13

IPv6 address

Instance state

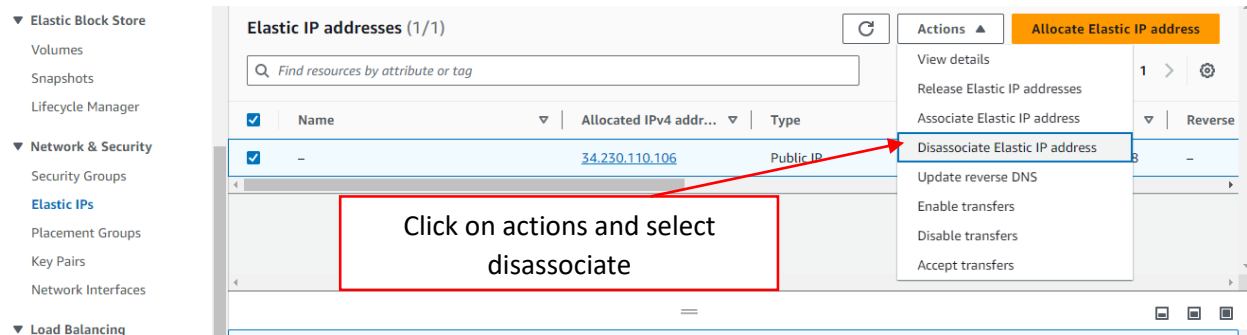
Running

Public IPv4 DNS

Not secure 34.230.110.106

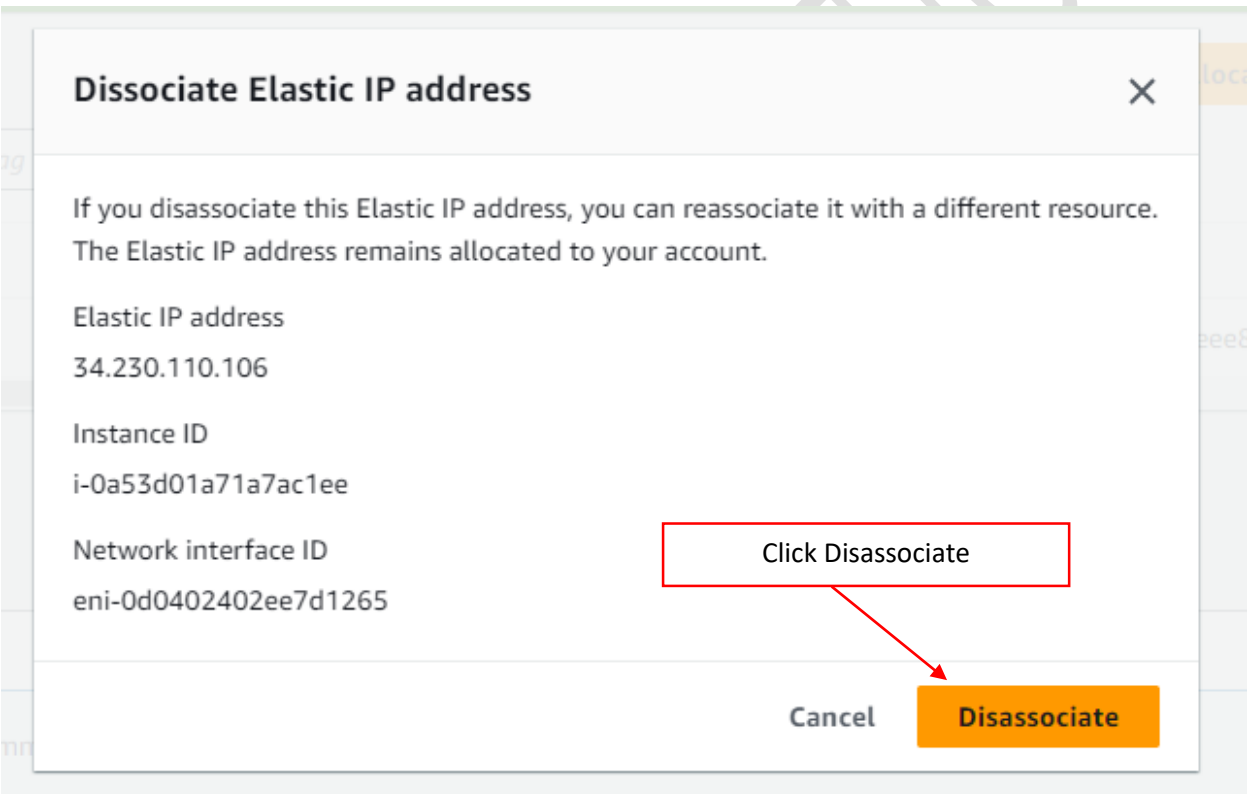
Welcome to Cloud Institution

Step 6 : Disassociate and Release Elastic IP



The screenshot shows the AWS Elastic IP addresses console. On the left, a sidebar lists navigation options: Elastic Block Store, Network & Security, and Load Balancing. The main area is titled 'Elastic IP addresses (1/1)' and contains a table with columns for Name, Allocated IPv4 address, and Type. A single entry is shown with the IP address 34.230.110.106 and Type Public IP. A red box highlights the 'Actions' dropdown menu, which is open and shows options like 'Disassociate Elastic IP address'. A red arrow points from a text box to the 'Disassociate Elastic IP address' option.

Click on actions and select disassociate



The screenshot shows a dialog box titled 'Dissociate Elastic IP address'. It contains the following information: 'Elastic IP address 34.230.110.106', 'Instance ID i-0a53d01a71a7ac1ee', and 'Network interface ID eni-0d0402402ee7d1265'. At the bottom, there are two buttons: 'Cancel' and 'Disassociate'. A red box highlights the 'Disassociate' button, with a red arrow pointing to it from a text box.

Click Disassociate

▼ Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

▼ Network & Security

Security Groups

Elastic IPs

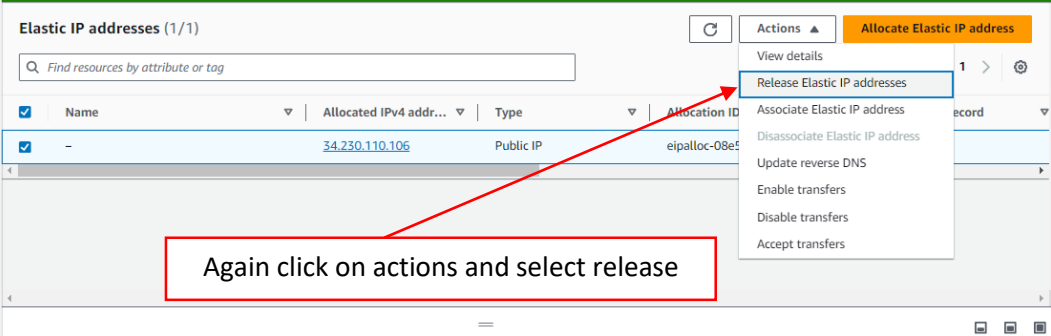
Placement Groups

Key Pairs

Network Interfaces

▼ Load Balancing

Load Balancers



Elastic IP addresses (1/1)

Find resources by attribute or tag

<input checked="" type="checkbox"/>	Name	Allocated IPv4 address	Type	Allocation ID
<input checked="" type="checkbox"/>	-	34.230.110.106	Public IP	eipalloc-08e5...

Actions

- Allocate Elastic IP address
- View details
- Release Elastic IP addresses
- Associate Elastic IP address
- Disassociate Elastic IP address
- Update reverse DNS
- Enable transfers
- Disable transfers
- Accept transfers

Again click on actions and select release