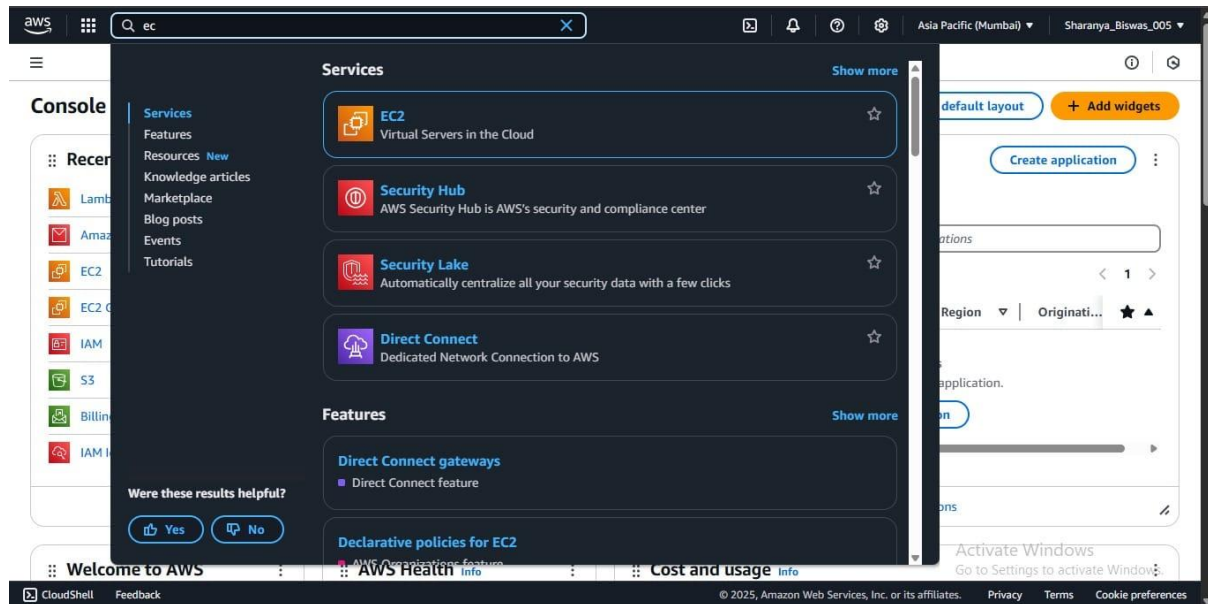


# Assignment No:14

Title: Create an Elastic IP for an Instance.

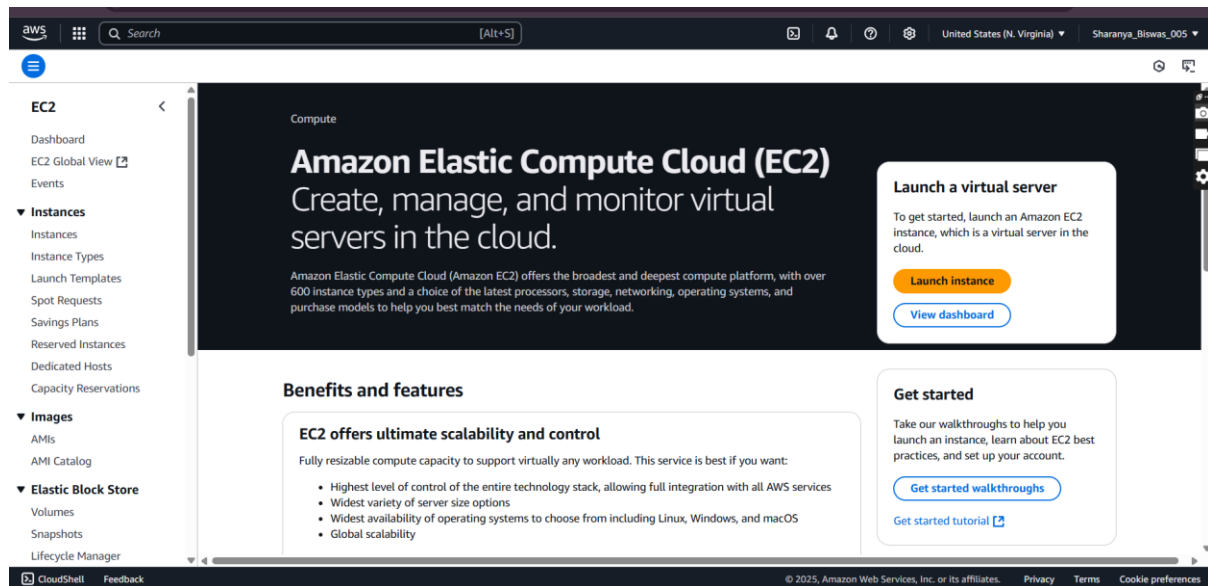
## Step-1:

Log into AWS and open EC2.



## Step-2:

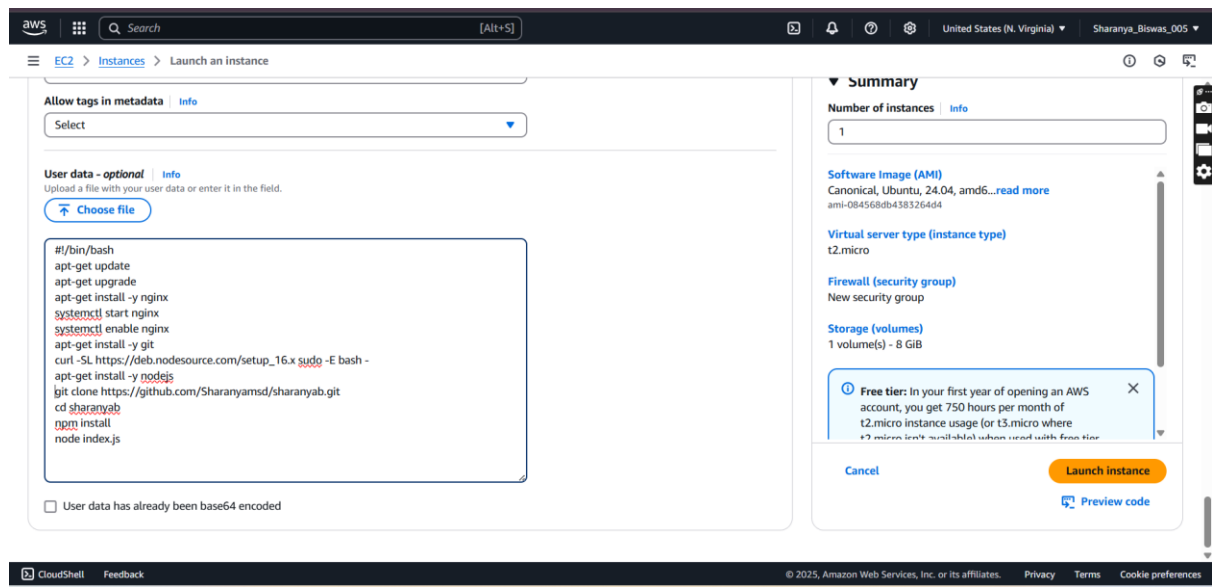
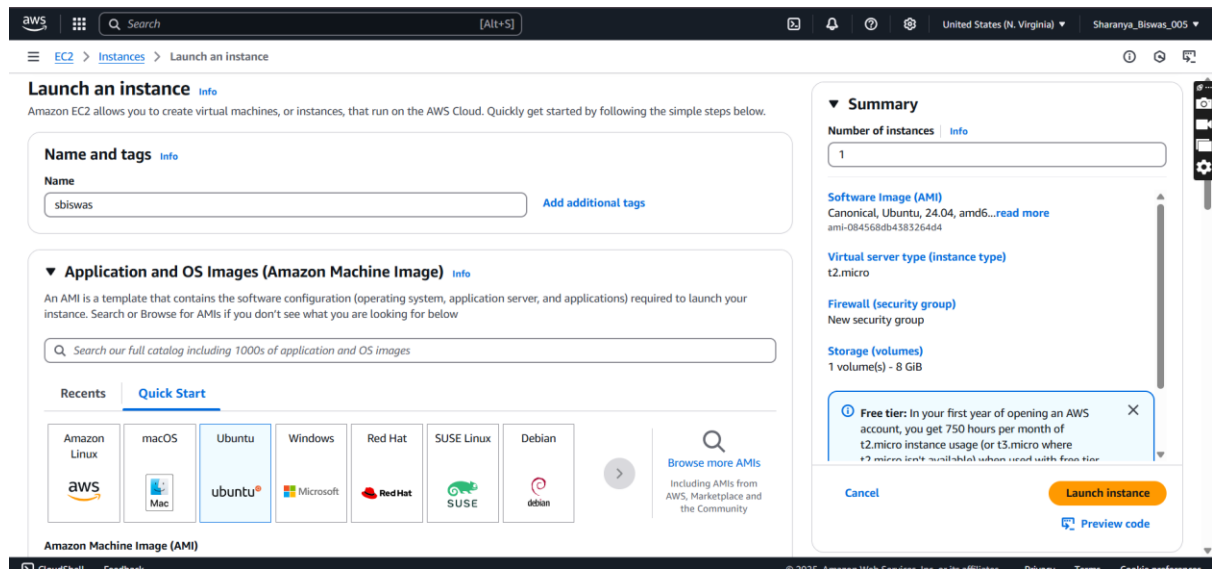
Click on Launch instance to create a new instance.



## Step-3:

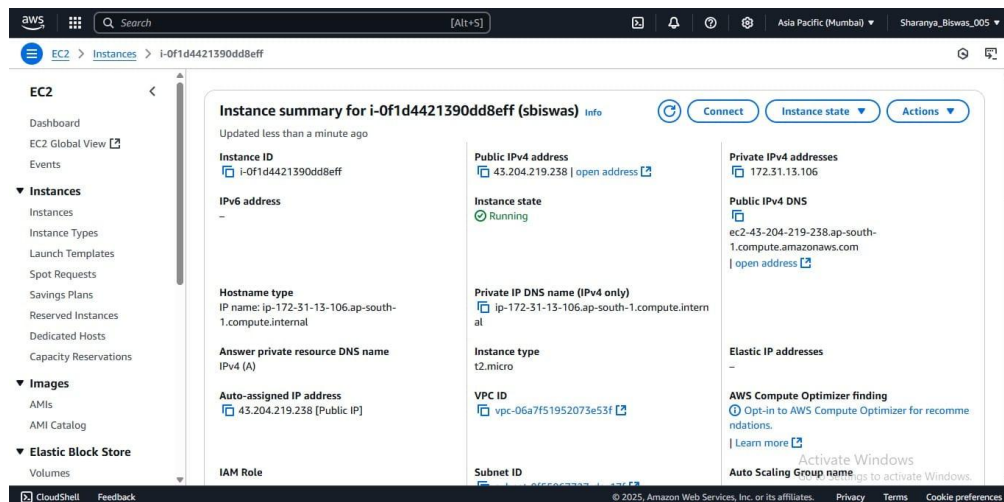
Create the instance and provide the user data if required.

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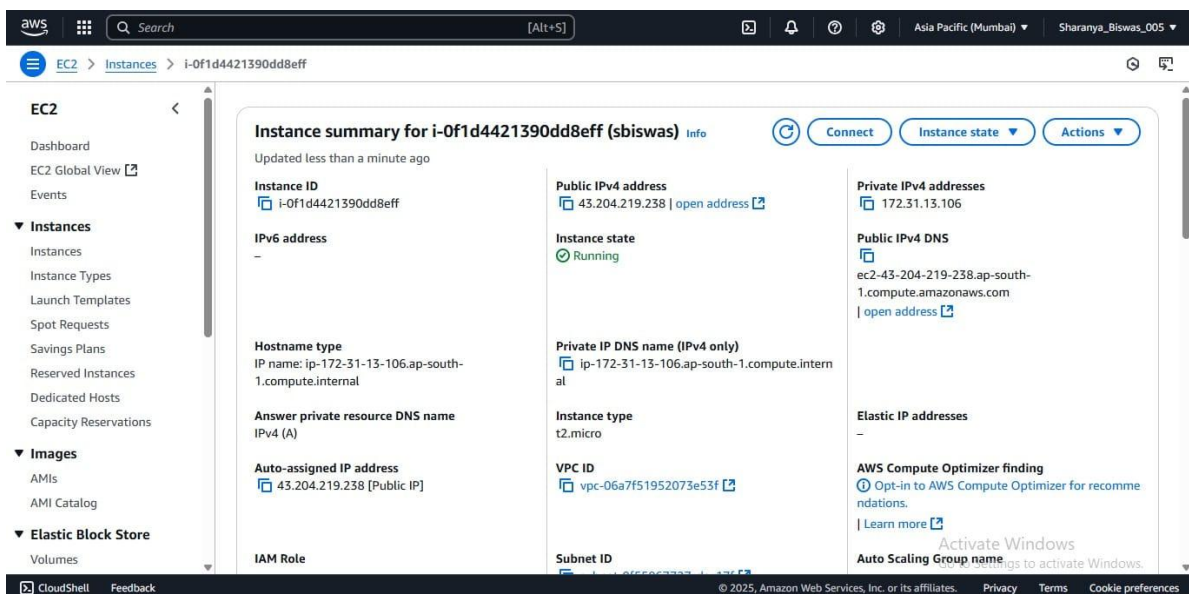
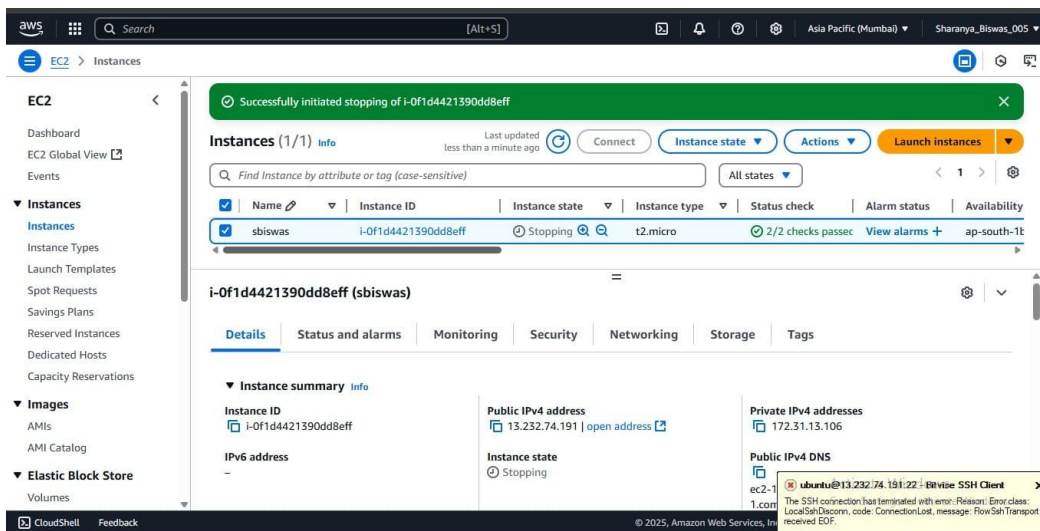


## Step-4:

Now the IPv4 address changes if the server turns off.

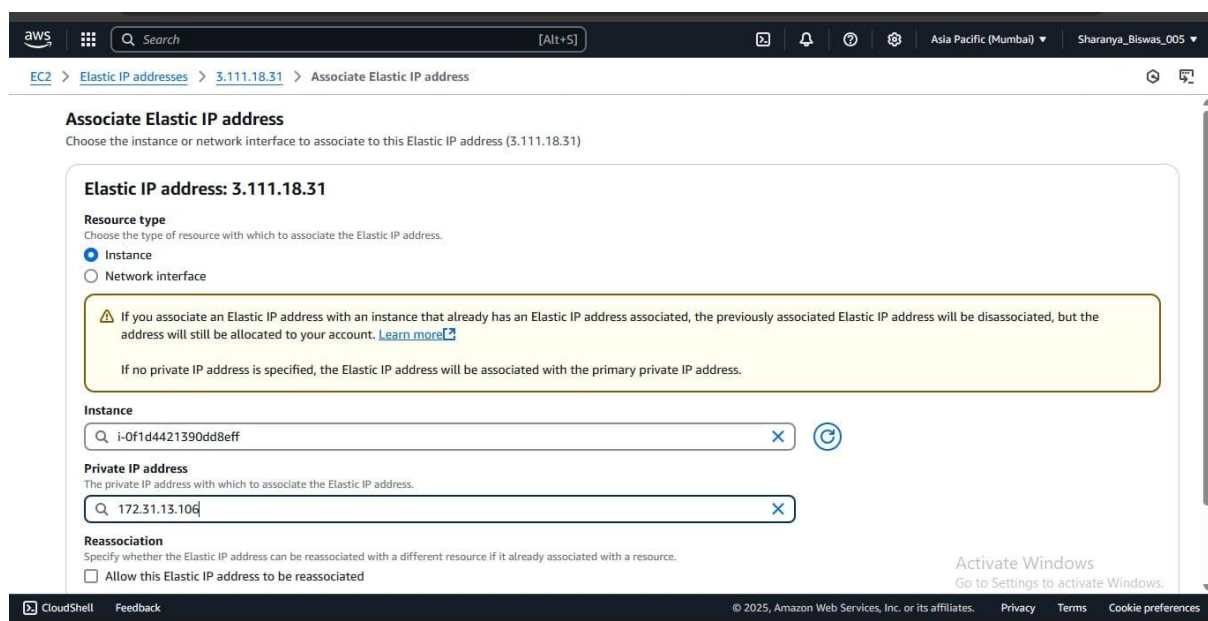
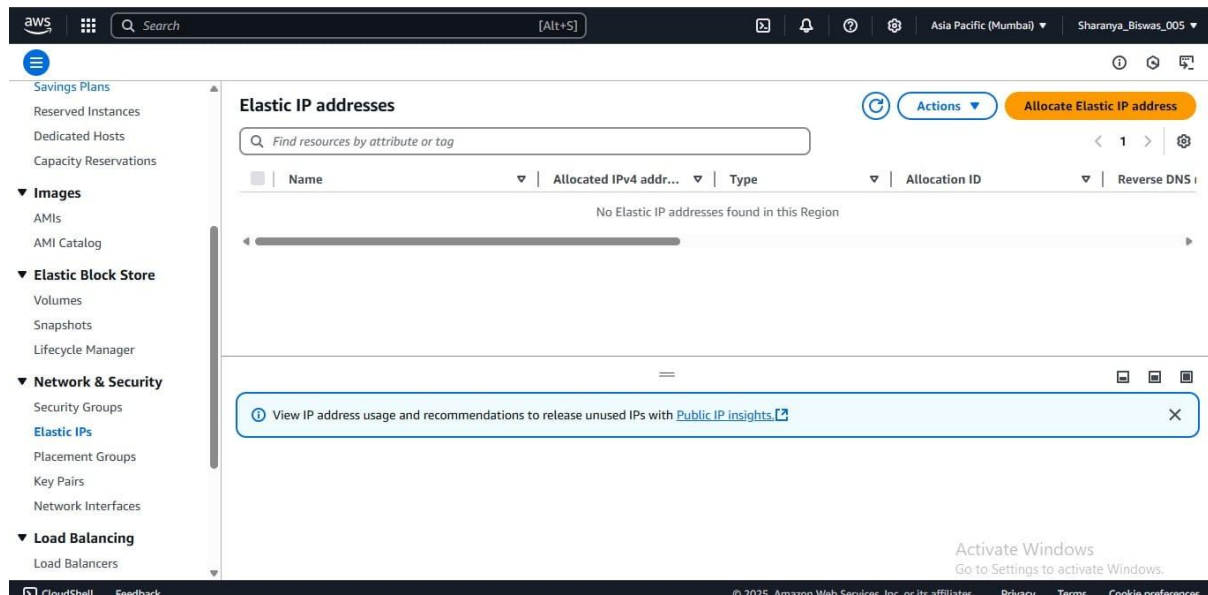


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## Step-6:

Open the Elastic IPs in the left side. Now go to allocate elastic ip address then allocate.



## Step-7:

Now open the IP address and go to associate elastic IP address then select the instance and its private IP address then associate.

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EC2 > Elastic IP addresses > 3.111.18.31

**EC2**

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  - Volumes

**Elastic IP address associated successfully.**  
Elastic IP address 3.111.18.31 has been associated with instance i-Of1d4421390dd8eff

**3.111.18.31** Actions Associate Elastic IP address

**Summary**

<b>Allocated IPv4 address</b> 3.111.18.31	<b>Type</b> Public IP	<b>Allocation ID</b> eipalloc-086e025ae4b411968	<b>Reverse DNS record</b> -
<b>Association ID</b> eipassoc-06a44e938d627ea92	<b>Scope</b> VPC	<b>Associated instance ID</b> i-Of1d4421390dd8eff	<b>Private IP address</b> 172.31.13.106
<b>Network interface ID</b> eni-09d6f17bd79428413	<b>Network interface owner account ID</b> 897729139669	<b>Public DNS</b> ec2-3-111-18-31.ap-south-1.compute.amazonaws.com	<b>NAT Gateway ID</b> -
<b>Address pool</b> Amazon	<b>Network border group</b> ap-south-1		

**Tags(0)** Manage tags

Activate Windows  
Go to Settings to activate Windows.

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EC2 > Elastic IP addresses > 3.111.18.31 > Associate Elastic IP address

**Elastic IP address: 3.111.18.31**

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

☒ Instance  
☐ Network interface

**Instance**  
i-Of1d4421390dd8eff

**Private IP address**  
The private IP address with which to associate the Elastic IP address.  
172.31.13.106

**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

Activate Windows  
Go to Settings to activate Windows.

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## Step-8:

Now go back to the instance and the IP address is now changed to the address of the elastic IP and turning the instance off and on now does not changes the IP.



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EC2 > Instances > i-0f1d4421390dd8eff

### EC2

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### Instance summary for i-0f1d4421390dd8eff (sbiswas)

Updated less than a minute ago

**Instance ID**  
i-0f1d4421390dd8eff

**Public IPv4 address**  
43.204.219.238 | open address

**Private IPv4 addresses**  
172.31.13.106

**Instance state**  
Running

**Public IPv4 DNS**  
ec2-43-204-219-238.ap-south-1.compute.amazonaws.com | open address

**IPv6 address**  
-

**Private IP DNS name (IPv4 only)**  
ip-172-31-13-106.ap-south-1.compute.internal

**Instance type**  
t2.micro

**Hostnames type**  
IP name: ip-172-31-13-106.ap-south-1.compute.internal

**Answer private resource DNS name**  
IPv4 (A)

**VPC ID**  
vpc-06a7f51952073e53f

**Auto-assigned IP address**  
43.204.219.238 [Public IP]

**Subnet ID**  
-

**IAM Role**  
-

**Elastic IP addresses**  
-

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

**Auto Scaling Group name**  
-

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EC2 > Instances

### EC2

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Successfully initiated stopping of i-0f1d4421390dd8eff

### Instances (1/1)

Last updated less than a minute ago

Find Instance by attribute or tag (case-sensitive)

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
<input checked="" type="checkbox"/>	sbiswas	i-0f1d4421390dd8eff	Stopping	t2.micro	2/2 checks passed	View alarms	ap-south-1b

### i-0f1d4421390dd8eff (sbiswas)

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

#### Instance summary

**Instance ID**  
i-0f1d4421390dd8eff

**Public IPv4 address**  
13.232.74.191 | open address

**Private IPv4 addresses**  
172.31.13.106

**Instance state**  
Stopping

**Public IPv4 DNS**  
ec2-13-232-74-191.ap-south-1.compute.amazonaws.com

ubuntu@13.232.74.191:22 - Private SSH Client  
The SSH connection has terminated with error: Reason: Error class: LocalSshDisconn, code: ConnectionLost, message: FlowSshTransport: received EOF.

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EC2 > Instances > i-0f1d4421390dd8eff

### EC2

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  - AMI Catalog
- ▼ Elastic Block Store
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### Instance summary for i-0f1d4421390dd8eff (sbiswas)

Updated less than a minute ago

[Connect](#) [Instance state](#) [Actions](#)

<b>Instance ID</b> i-0f1d4421390dd8eff	<b>Public IPv4 address</b> 43.204.219.238 <a href="#">open address</a>	<b>Private IPv4 addresses</b> 172.31.13.106
<b>IPv6 address</b> -	<b>Instance state</b> Running	<b>Public IPv4 DNS</b> ec2-43-204-219-238.ap-south-1.compute.amazonaws.com <a href="#">open address</a>
<b>Hostname type</b> IP name: ip-172-31-13-106.ap-south-1.compute.internal	<b>Private IP DNS name (IPv4 only)</b> ip-172-31-13-106.ap-south-1.compute.internal	<b>Elastic IP addresses</b> -
<b>Answer private resource DNS name</b> IPv4 (A)	<b>Instance type</b> t2.micro	<b>AWS Compute Optimizer finding</b> Opt-in to AWS Compute Optimizer for recommendations. <a href="#">Learn more</a>
<b>Auto-assigned IP address</b> 43.204.219.238 [Public IP]	<b>VPC ID</b> vpc-06a7f51952073e53f	<b>Auto Scaling Group name</b> -
<b>IAM Role</b> -	<b>Subnet ID</b> subnet-06f5c7333	

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