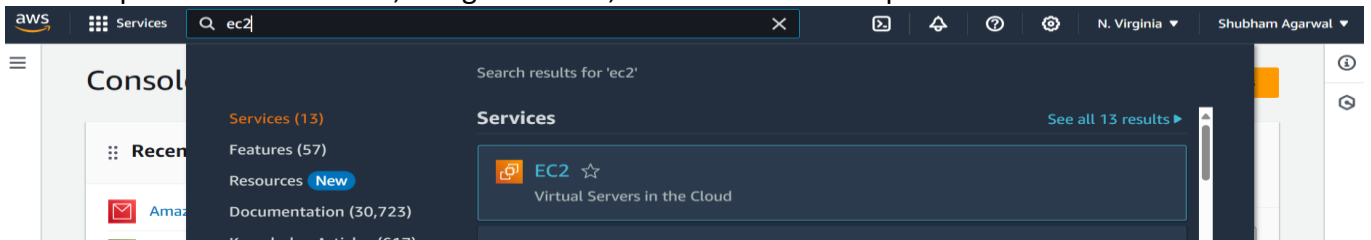


## Assignment No: 14

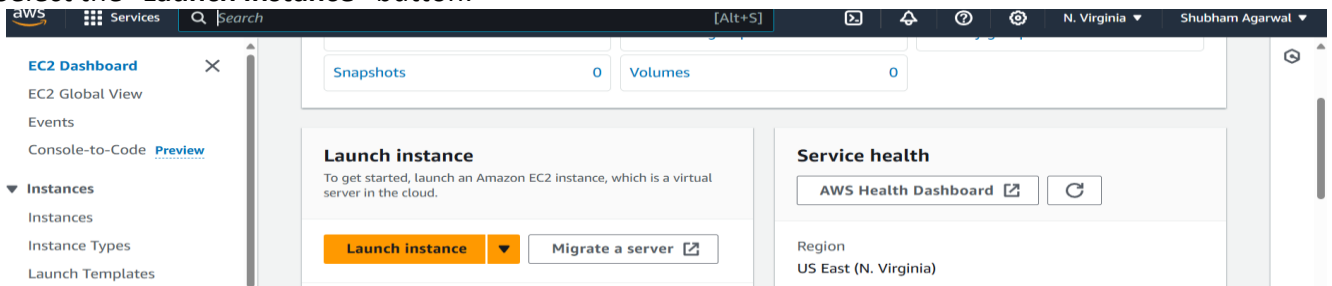
**Problem Statement:** Create an Elastic IP for an instance.

Steps:-

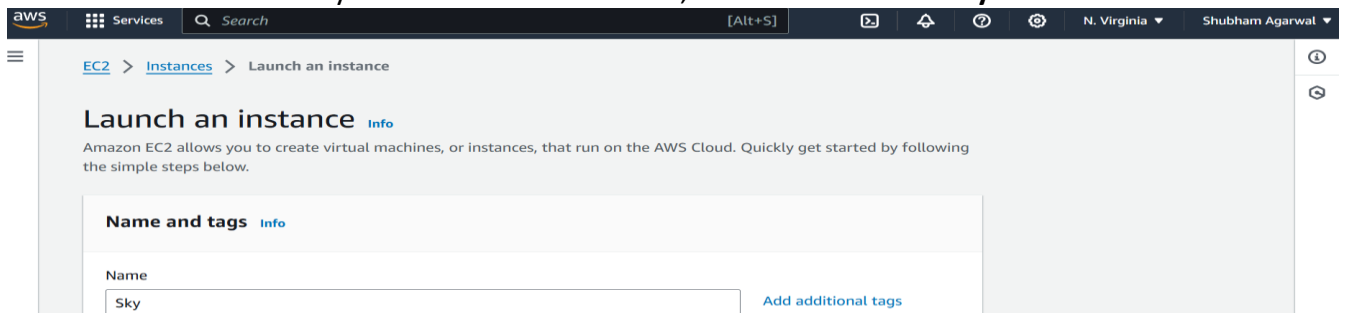
1. Please open the AWS console, navigate to EC2, and select the first option listed.



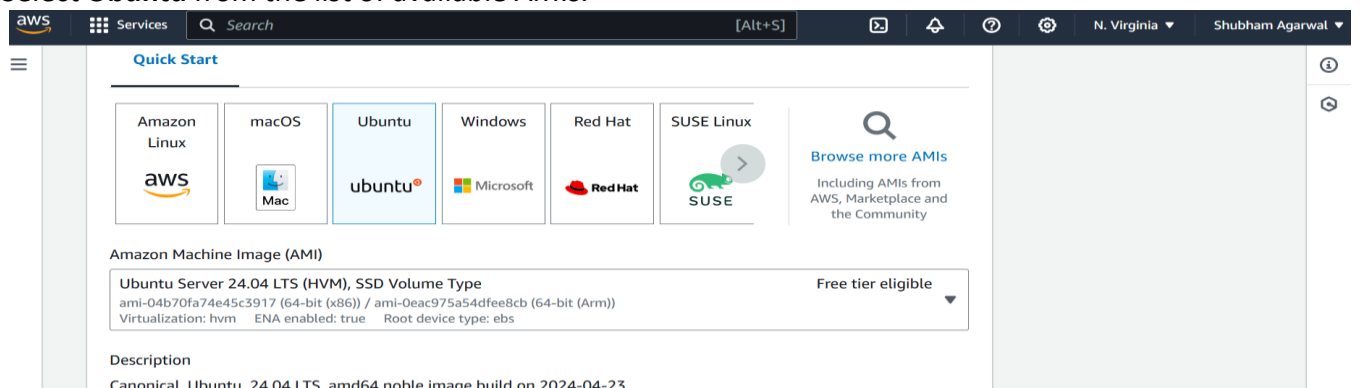
2. Select the "Launch Instance" button.



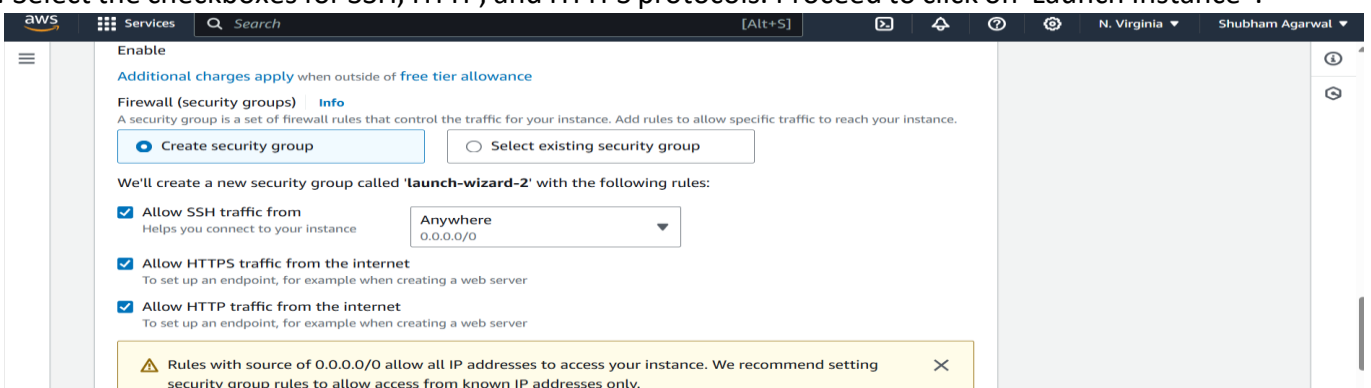
3. Enter a suitable name for your instance. For instance, we have named it "Sky".



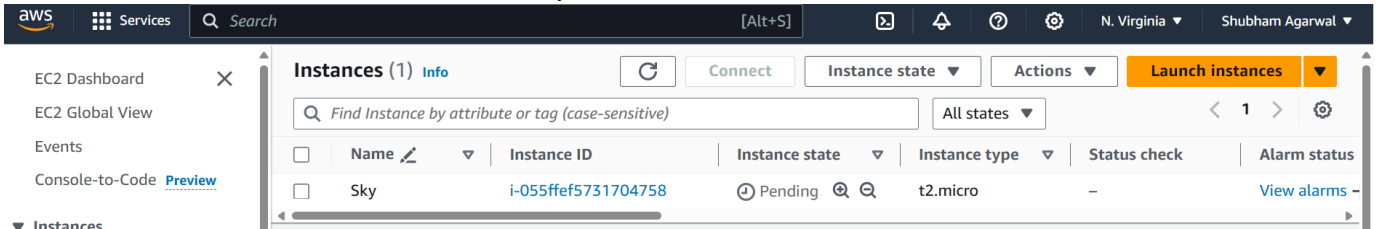
4. Select Ubuntu from the list of available AMIs.



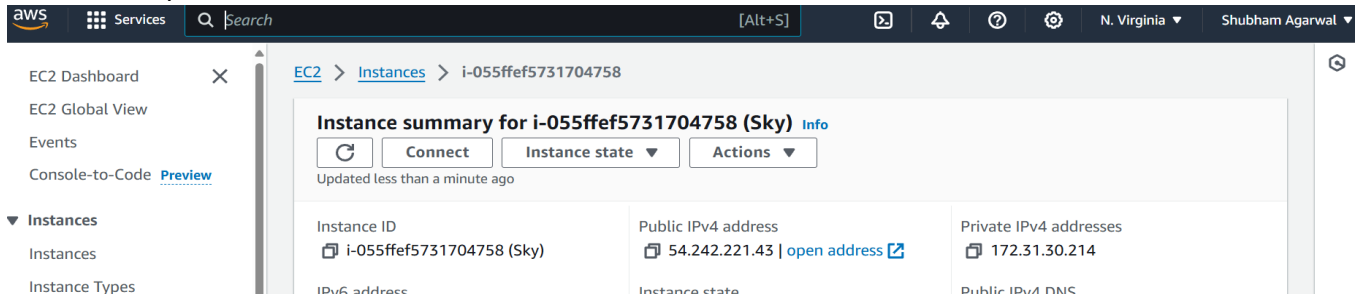
5. Select the checkboxes for SSH, HTTP, and HTTPS protocols. Proceed to click on "Launch Instance".



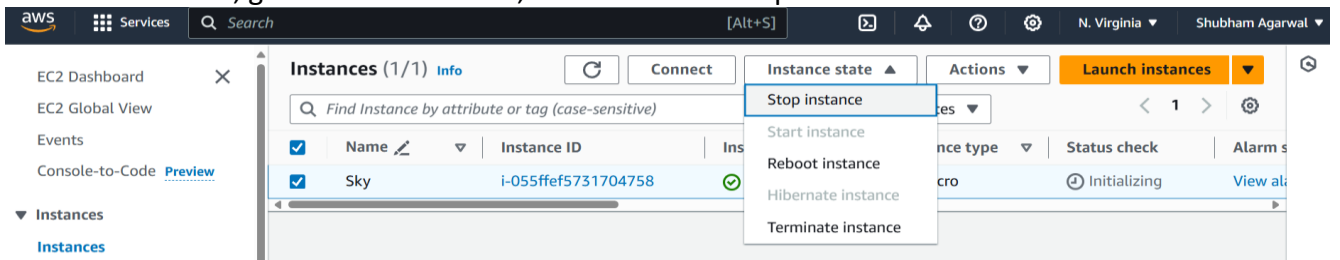
6. The instance has been created successfully.



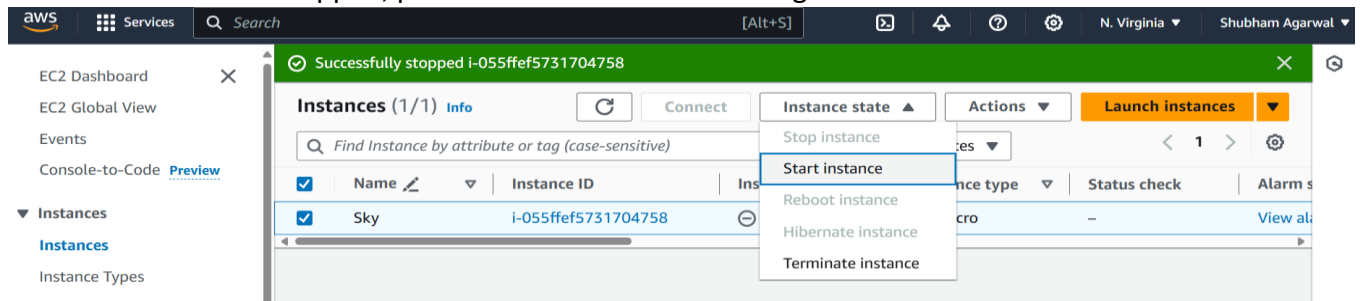
7. To view the public IPv4 address, click on the instance ID.



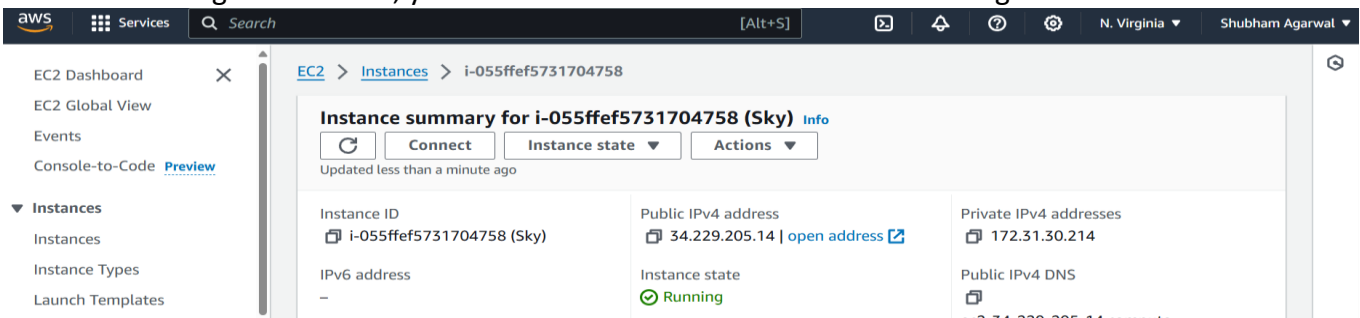
8. Select the instance, go to "Instance State," and choose to stop the instance.



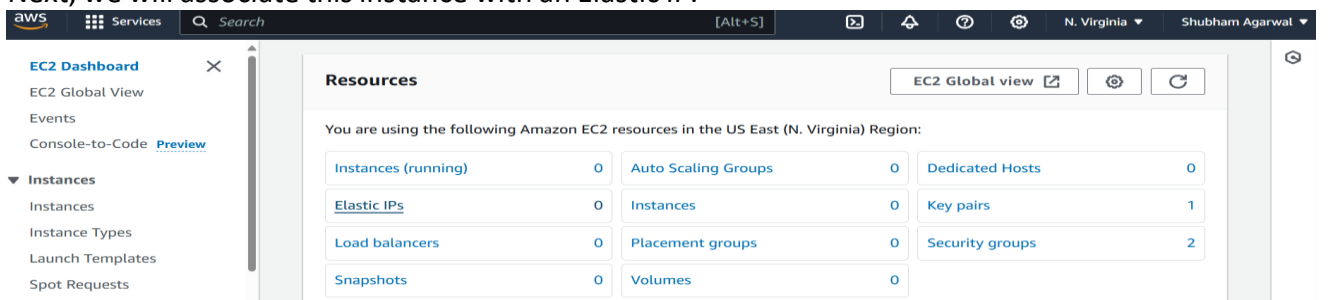
9. Once the instance is stopped, proceed to start the instance again.



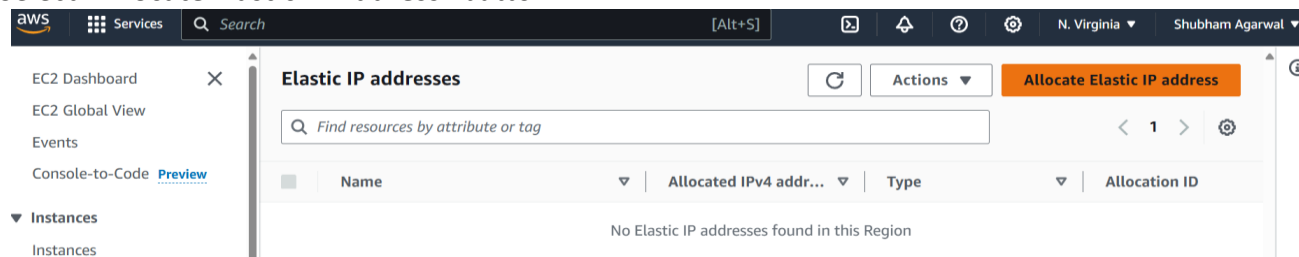
10. After restarting the instance, you will notice that the IPv4 address has changed.



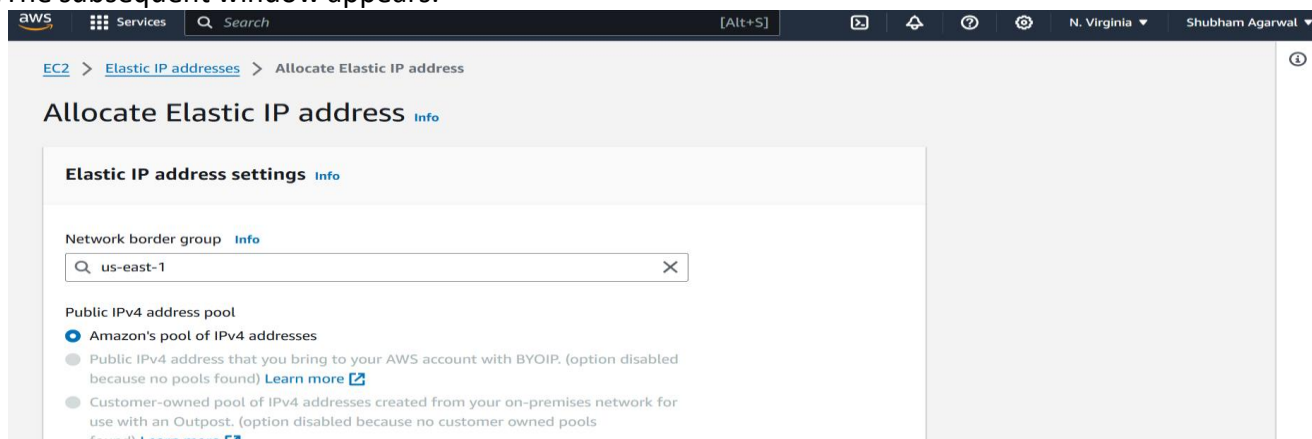
11. Next, we will associate this instance with an Elastic IP.



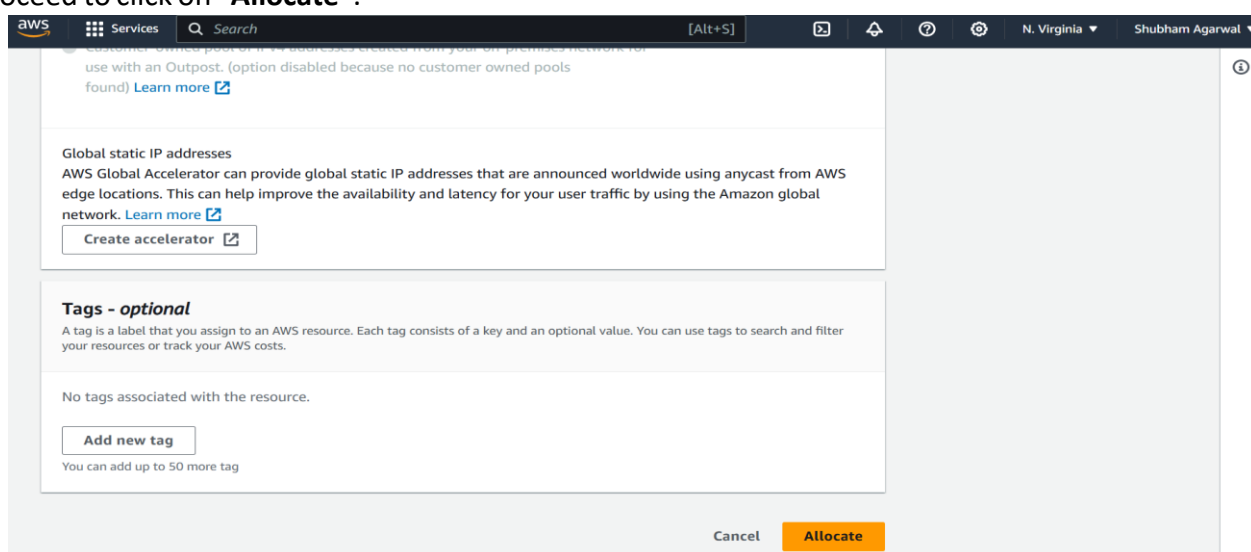
## 12. Select “Allocate Elastic IP Address” button.



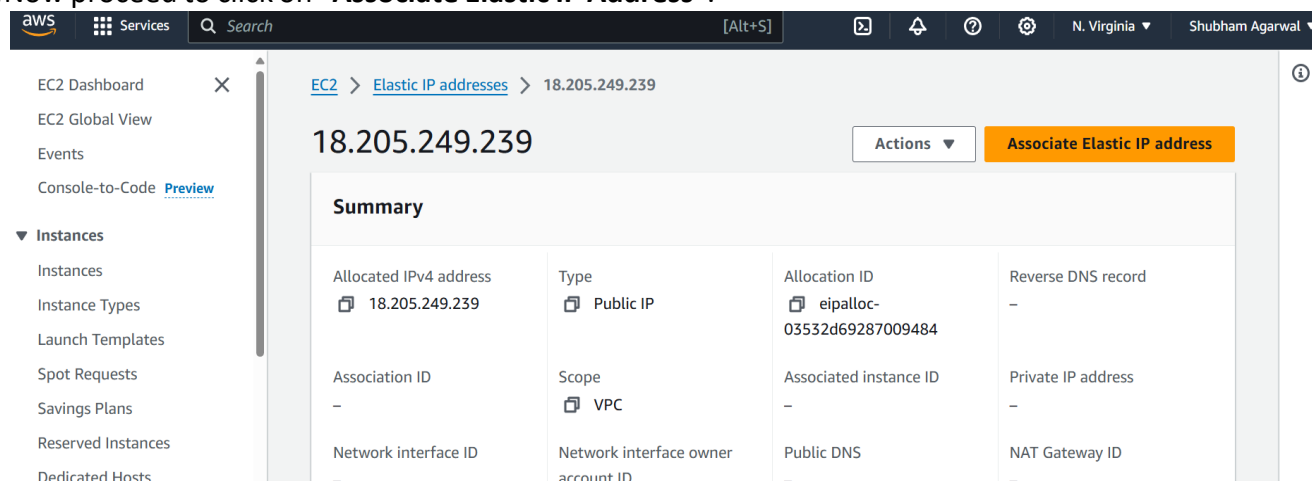
## 13. The subsequent window appears.



## 14. Proceed to click on “Allocate”.



## 15. Now proceed to click on “Associate Elastic IP Address”.



16. Choose the instance, its private IP address, and tick the checkbox below. Then, proceed to click on "Associate."

The screenshot shows the 'Associate Elastic IP address' dialog box in the AWS console. The 'Instance' radio button is selected. A warning box states: '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](#)'. Below this, the 'Instance' field contains 'i-055ffef5731704758' and the 'Private IP address' field contains '172.31.30.214'. The 'Reassociation' section has the checkbox 'Allow this Elastic IP address to be reassociated' checked. At the bottom are 'Cancel' and 'Associate' buttons.

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

☒ Instance  
☐ Network interface

**Warning:** 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  
i-055ffef5731704758

Private IP address  
The private IP address with which to associate the Elastic IP address.  
172.31.30.214

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

17. After stopping and then restarting the instance, you will observe that the IPv4 address remains unchanged.

The screenshot shows the 'Instances' page in the AWS console. The 'Instance state' dropdown menu is open, showing options: 'Stop instance', 'Start instance', 'Reboot instance', 'Hibernate instance', and 'Terminate instance'. The 'Stop instance' option is highlighted. The instance 'Sky' with ID 'i-055ffef5731704758' is listed with a status of 'running'.

Instances (1/1) Info

Find Instance by attribute or tag (case-sensitive)

Instance state = running

Clear filters

Stop instance

Start instance

Reboot instance

Hibernate instance

Terminate instance

Name	Instance ID	Instance type	Status check	Alarm s
Sky	i-055ffef5731704758	micro	2/2 checks passed	View al

The screenshot shows the 'Instance summary' page for instance 'i-055ffef5731704758 (Sky)'. The instance is in the 'Running' state. The summary displays the Instance ID, Public IPv4 address (18.205.249.239), Private IPv4 addresses (172.31.30.214), and Public IPv4 DNS (ec2-18-205-249-239.compute-1.amazonaws.com).

EC2 > Instances > i-055ffef5731704758

Instance summary for i-055ffef5731704758 (Sky) Info

Updated less than a minute ago

Instance ID i-055ffef5731704758 (Sky)	Public IPv4 address 18.205.249.239   <a href="#">open address</a>	Private IPv4 addresses 172.31.30.214
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-18-205-249-239.compute-1.amazonaws.com