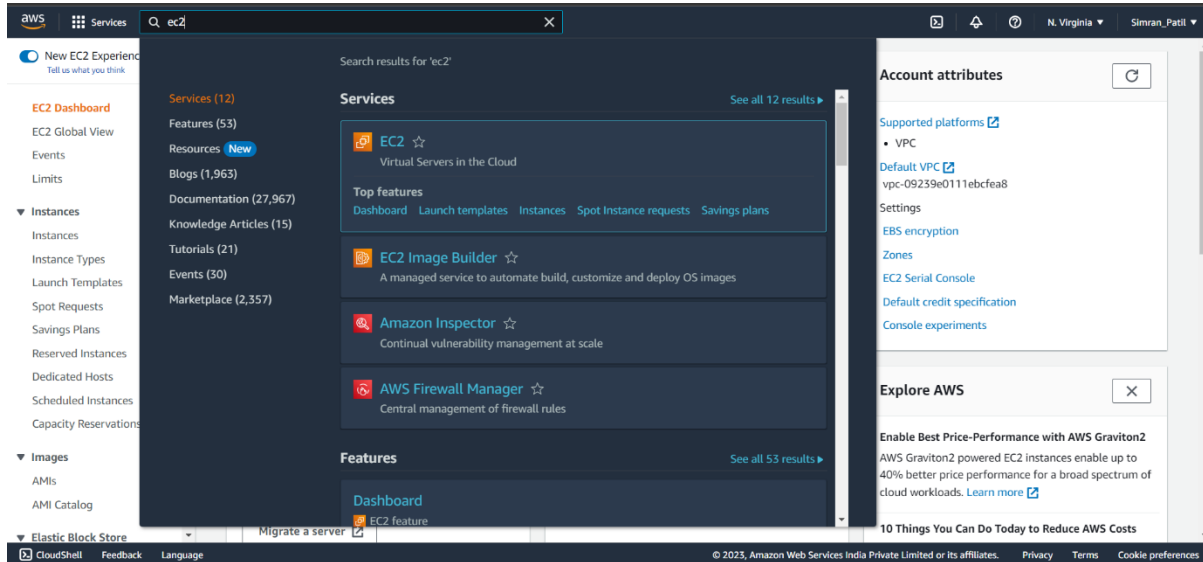
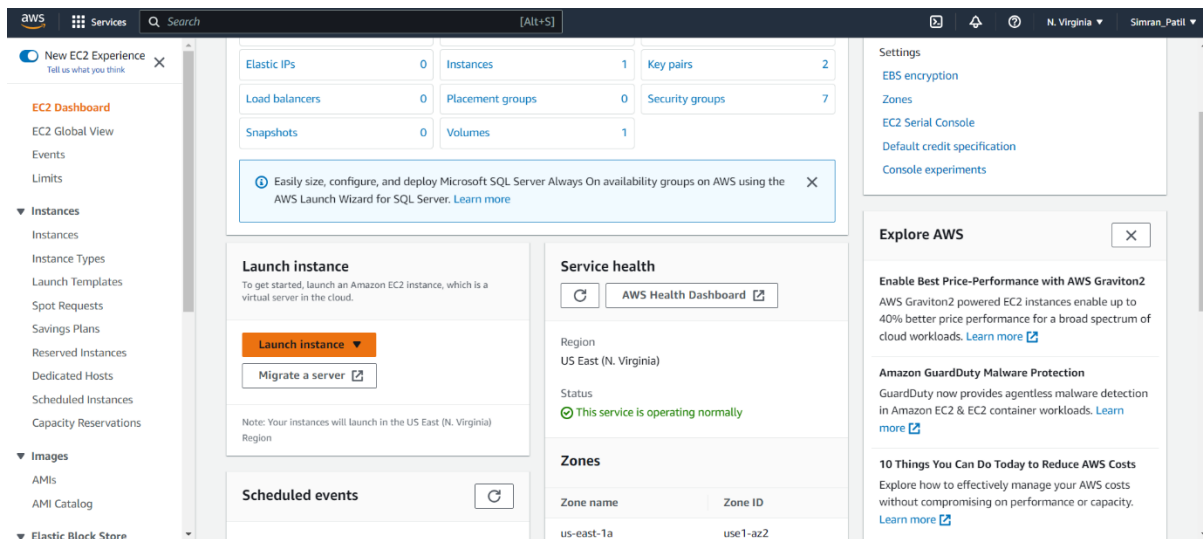


# EC2

## EC2 Instance



## Launching instance



## Launch

aws

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EC2 > Instances > Launch an instance

Launch an instance

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

Name

infobell

Add additional tags

Application and OS Images (Amazon Machine Image)

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

RecentsQuick Start

Summary

Number of instances1

Software Image (AMI)  
Amazon Linux 2023 AMI 2023.0.2...  
ami-0889a44b331db0194

Virtual server type (instance type)  
t2.micro

Firewall (security group)  
New security group

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

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the

CancelLaunch instanceReview commands

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Instance type

Instance type

t2.micro

Family: t2 1 vCPU 1 GiB Memory Current generation: true

On-Demand Windows pricing: 0.0162 USD per Hour

On-Demand SUSE pricing: 0.0116 USD per Hour

On-Demand RHEL pricing: 0.0716 USD per Hour

On-Demand Linux pricing: 0.0116 USD per Hour

Free tier eligible

All generations

Compare instance types

Key pair (login)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

infobell

Create new key pair

Network settings

Network

vpc-09239e0111ebcf8a8

Edit

Summary

Number of instances1

Software Image (AMI)  
Amazon Linux 2023 AMI 2023.0.2...  
ami-0889a44b331db0194

Virtual server type (instance type)  
t2.micro

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Create security groupSelect existing security group

We'll create a new security group called 'launch-wizard-6' with the following rules:

Allow SSH traffic from

Helps you connect to your instance

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

To set up an endpoint, for example when creating a web server

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Configure storage

Advanced

1x

8

GiB

gp3

Root volume (Not encrypted)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

Summary

Number of instances1

Software Image (AMI)  
Amazon Linux 2023 AMI 2023.0.2...  
ami-0889a44b331db0194

Virtual server type (instance type)  
t2.micro

Firewall (security group)  
New security group

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

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CancelLaunch instanceReview commands

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## Instance running

The screenshot shows the AWS Management Console interface. On the left is a navigation menu with options like 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Limits', 'Instances', 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Scheduled Instances', 'Capacity Reservations', 'Images', 'AMIs', 'AMI Catalog', and 'Elastic Block Store'. The main area is titled 'Instances (1) Info' and contains a table with one instance:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
infobell	i-09727010960f86ade	Running	t2.micro	Initializing	No alarms	us-east-1b	ec2-54-87-253-1

Below the table is a 'Select an instance' section. The top bar includes a search bar, 'Connect', 'Instance state', 'Actions', and a 'Launch instances' button. The bottom footer shows '© 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences'.

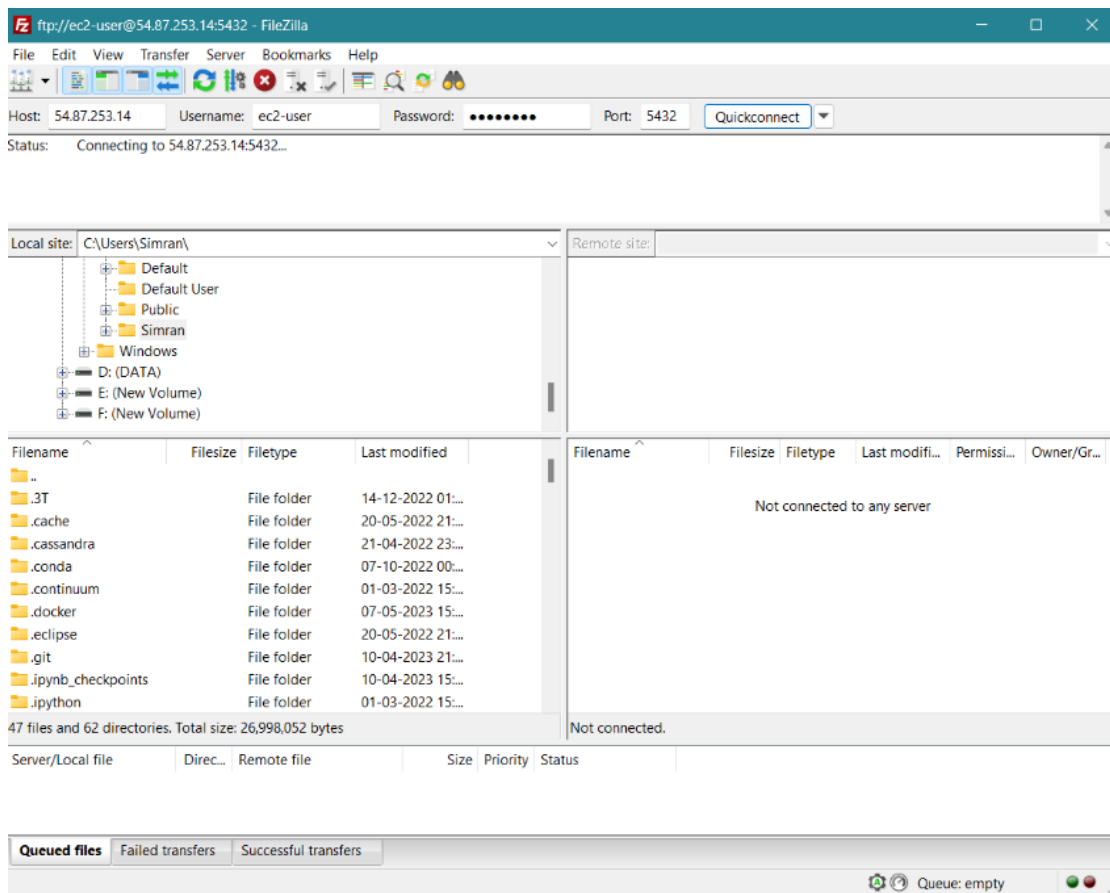
## Instance Created

The screenshot shows a success message in the AWS Management Console. The breadcrumb navigation at the top reads 'EC2 > Instances > Launch an instance'. A green box contains the following text:

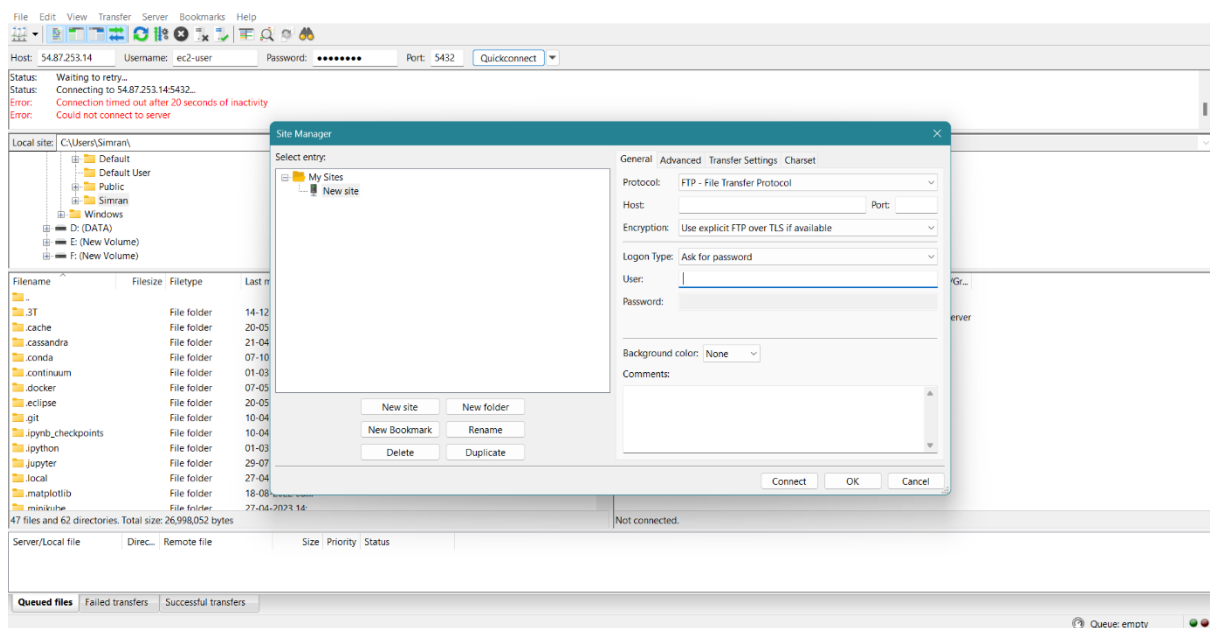
**Success**  
Successfully initiated launch of instance (i-09727010960f86ade)

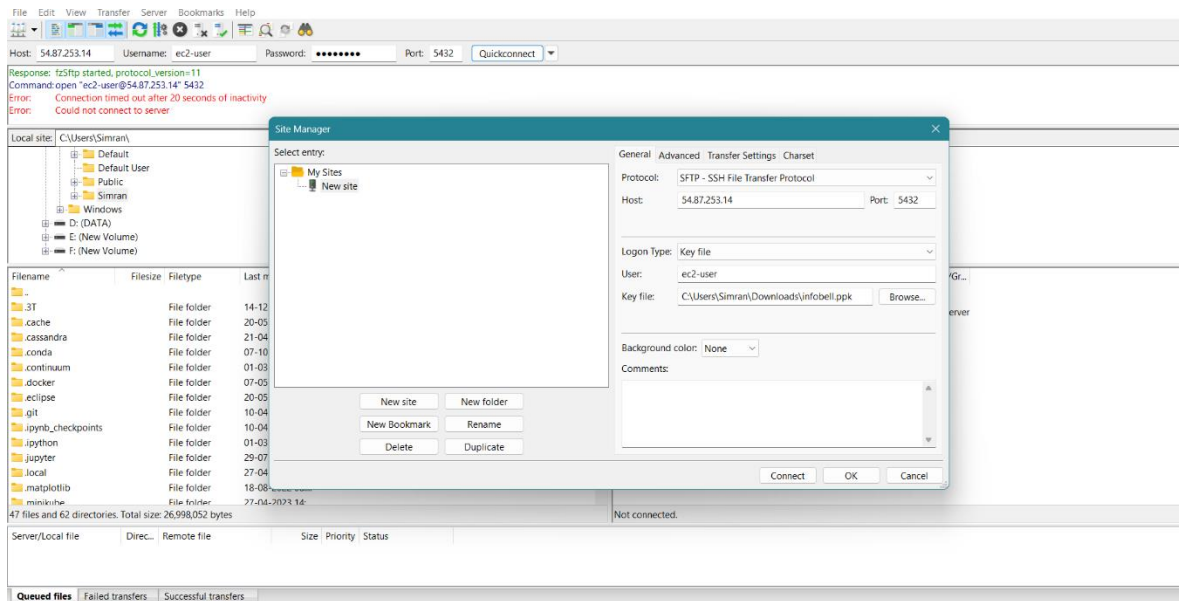
Below the message is a link to 'Launch log'.

## Filezilla

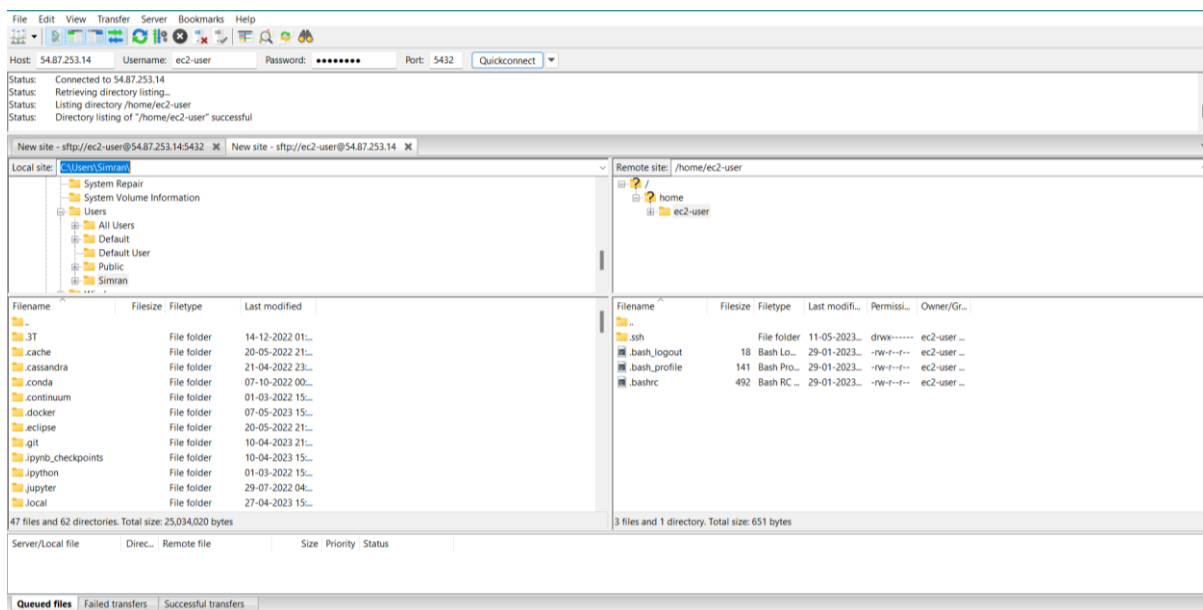


## Connecting local system to ec2-user

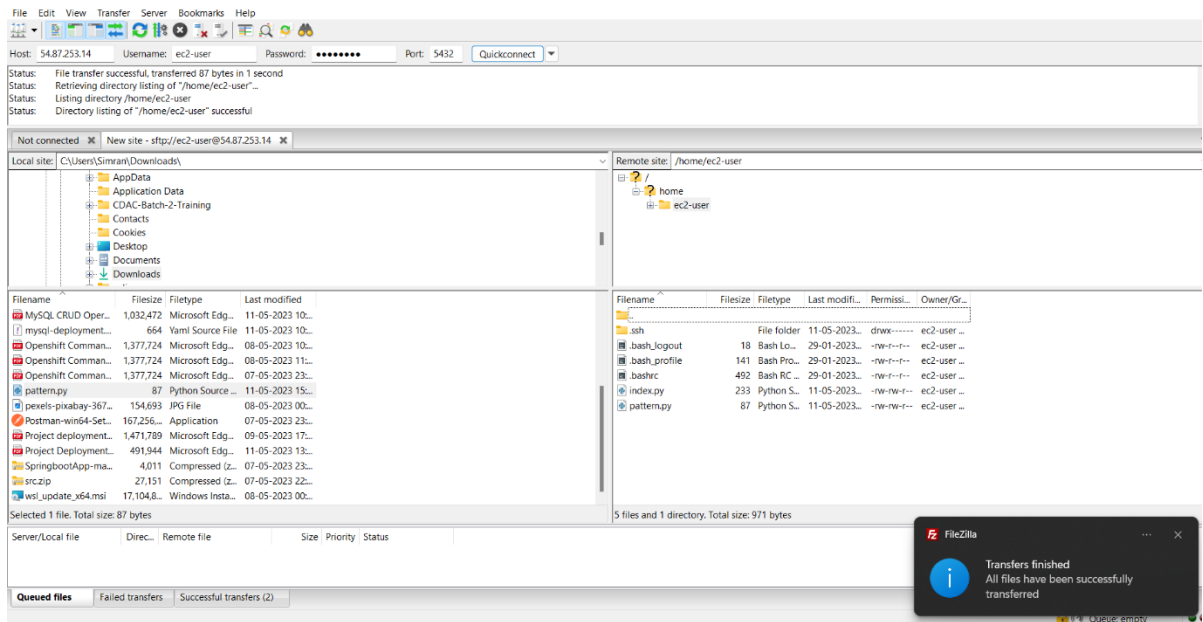




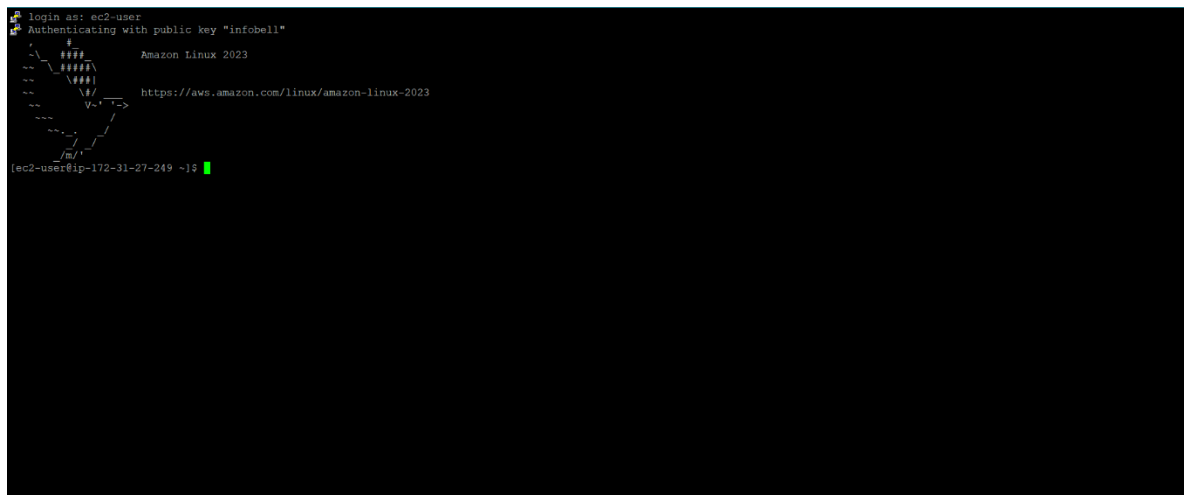
## Connection Successful



File from local system transferred successfully.



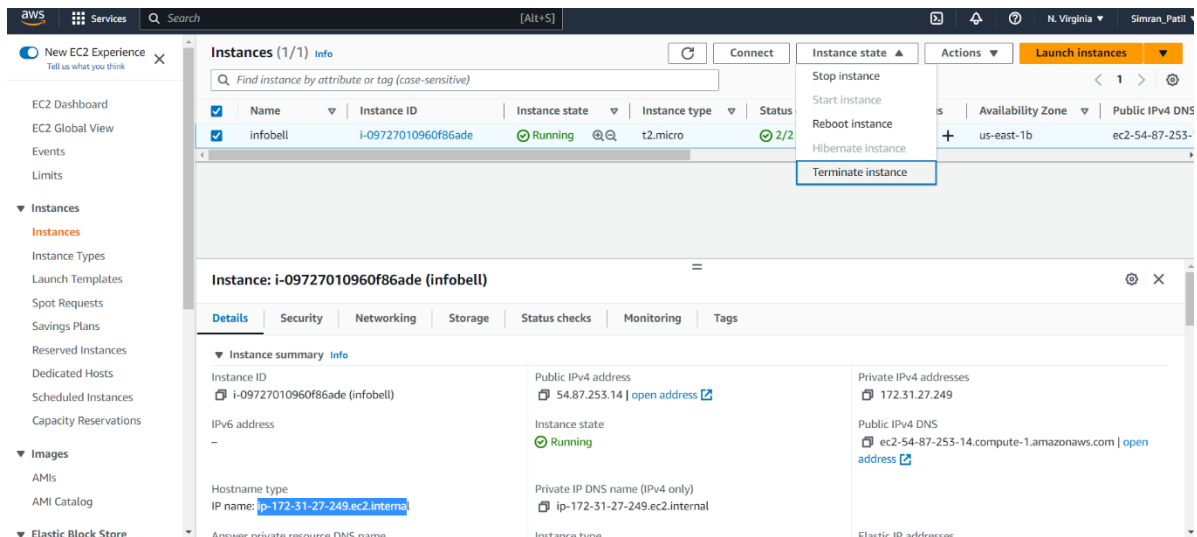
Login to putty as ec2-user



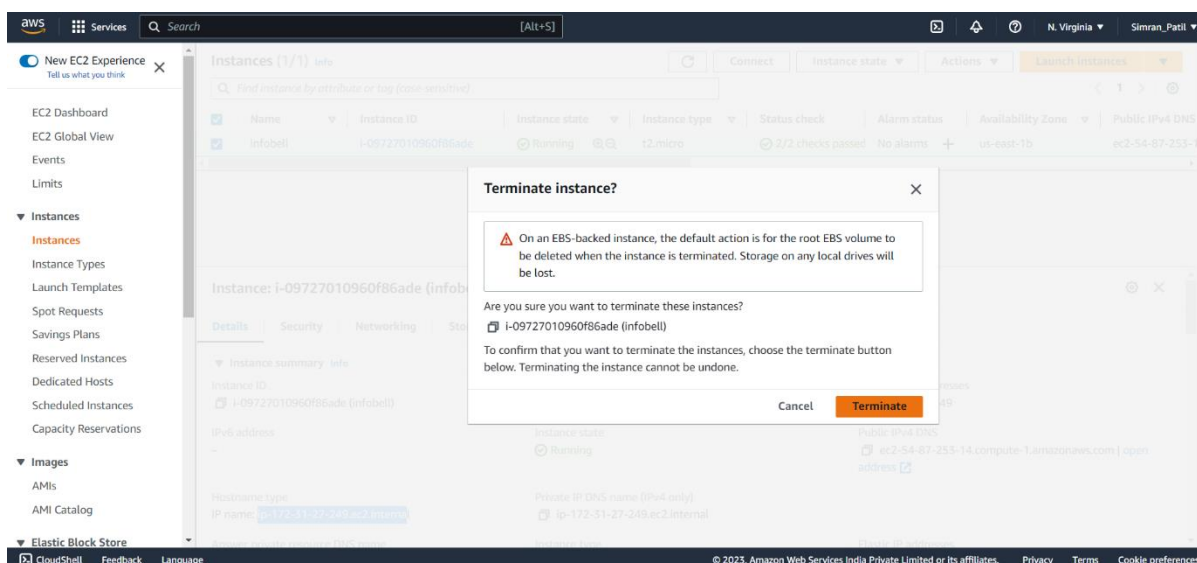
## Python file executed successfully

```
[ec2-user@ip-172-31-27-249 ~]$ sudo yum install python3
Last metadata expiration check: 0:38:31 ago on Thu May 11 08:54:37 2023.
Package python3-3.9.16-1.amzn2023.0.3.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-27-249 ~]$ python3 --version
Python 3.9.16
[ec2-user@ip-172-31-27-249 ~]$ python3 pattern.py
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
[ec2-user@ip-172-31-27-249 ~]$
```

## Instance Termination



The screenshot shows the AWS Management Console interface for the 'Instances' page. The instance 'infobell' (ID: i-09727010960f86ade) is in a 'Running' state. The 'Actions' menu is open, showing options like 'Stop instance', 'Start instance', 'Reboot instance', 'Hibernate instance', and 'Terminate instance'. The 'Instance summary' section shows details like Public IPv4 address (54.87.253.14), Private IPv4 addresses (172.31.27.249), and IP name (ip-172-31-27-249.ec2.internal).



The screenshot shows the AWS Management Console interface for the 'Instances' page. A 'Terminate instance?' dialog box is open, asking 'Are you sure you want to terminate these instances?' and 'To confirm that you want to terminate the instances, choose the terminate button below. Terminating the instance cannot be undone.' The 'Terminate' button is highlighted.

## Successfully Terminated

The screenshot displays the AWS Management Console interface. At the top, a green notification banner states "Successfully terminated i-09727010960f86ade". Below this, the "Instances" page is visible, showing a table with one instance: "infobell" (ID: i-09727010960f86ade) in a "Shutting-down" state. The instance type is "t2.micro" and it is located in the "us-east-1b" availability zone. The status checks show "2/2 checks passed".

The "Instance: i-09727010960f86ade (infobell)" details are expanded, showing the following information:

- Instance ID:** i-09727010960f86ade (infobell)
- Public IPv4 address:** 54.87.253.14 | [open address](#)
- Private IPv4 addresses:** 172.31.27.249
- Instance state:** Shutting-down
- Public IPv4 DNS:** ec2-54-87-253-14.compute-1.amazonaws.com | [open address](#)
- Private IP DNS name (IPv4 only):** ip-172-31-27-249.ec2.internal
- IP name:** ip-172-31-27-249.ec2.internal
- Answer private resource DNS name:** (empty)
- Instance type:** t2.micro
- Elastic IP addresses:** (empty)

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