AWS SOLUTIONS ARCHITECT

ASSIGNMENT-2

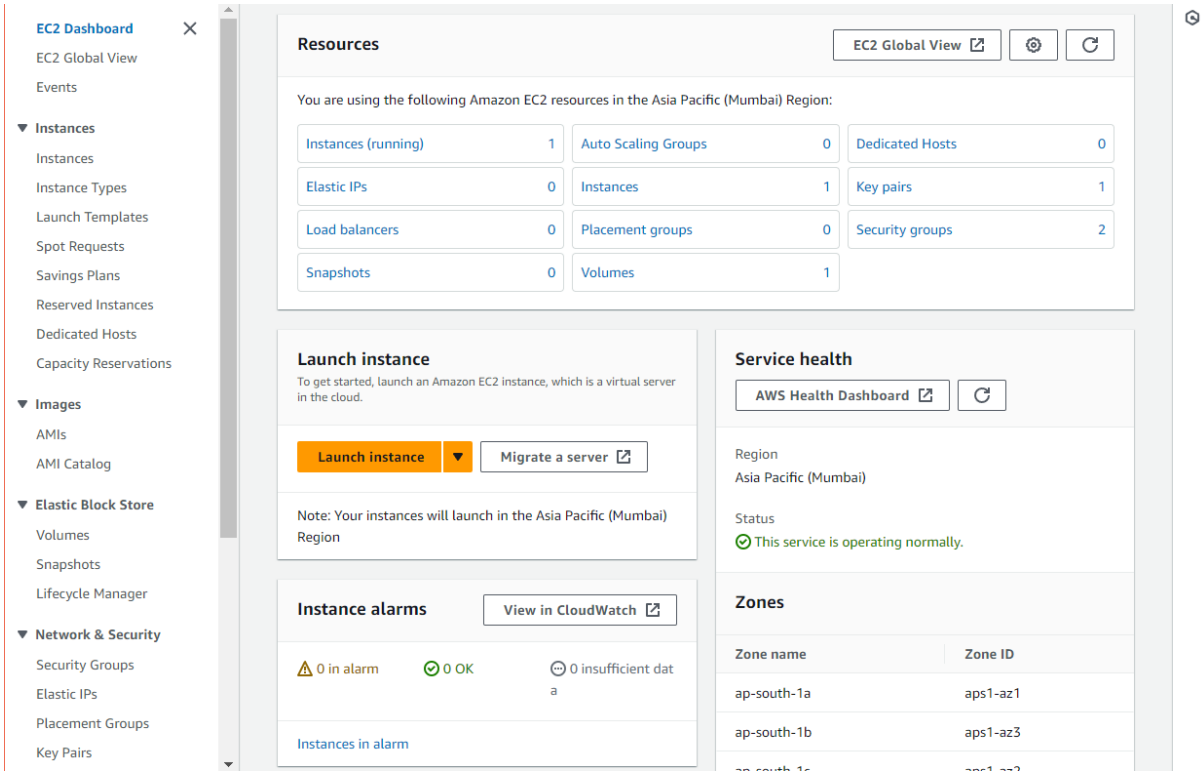
HARINI L

22BCE5233

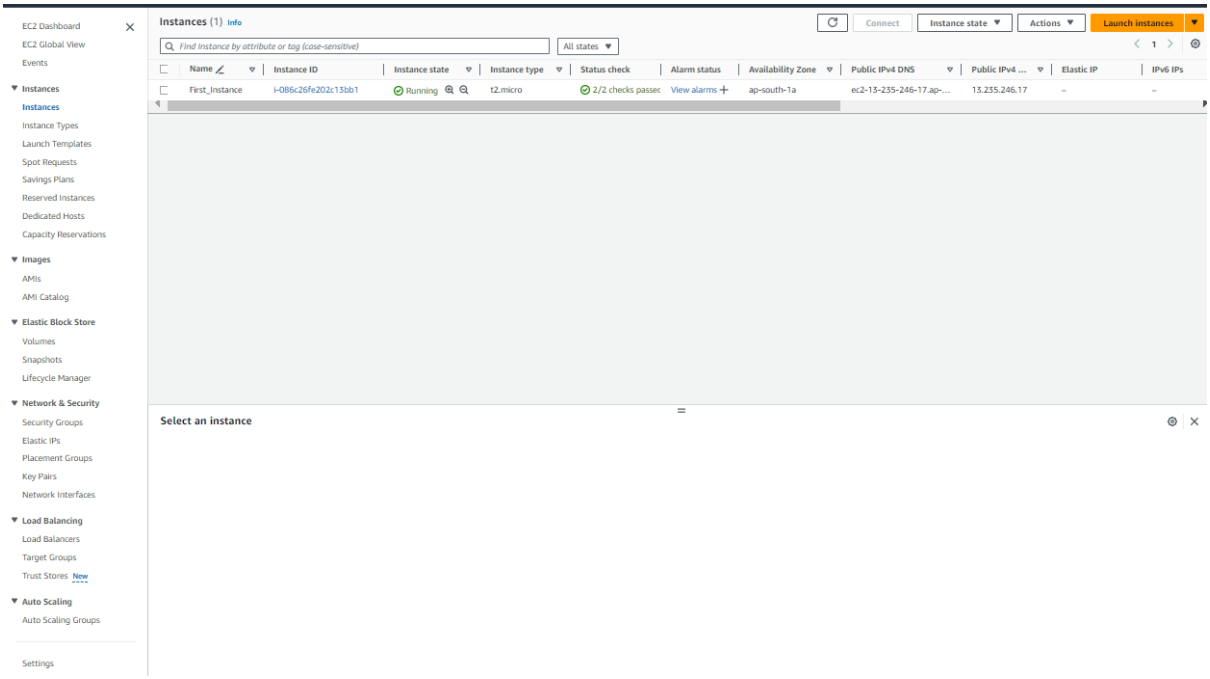
SERIAL NUMBER:106

2. Create an EC2 instance and launch a static website

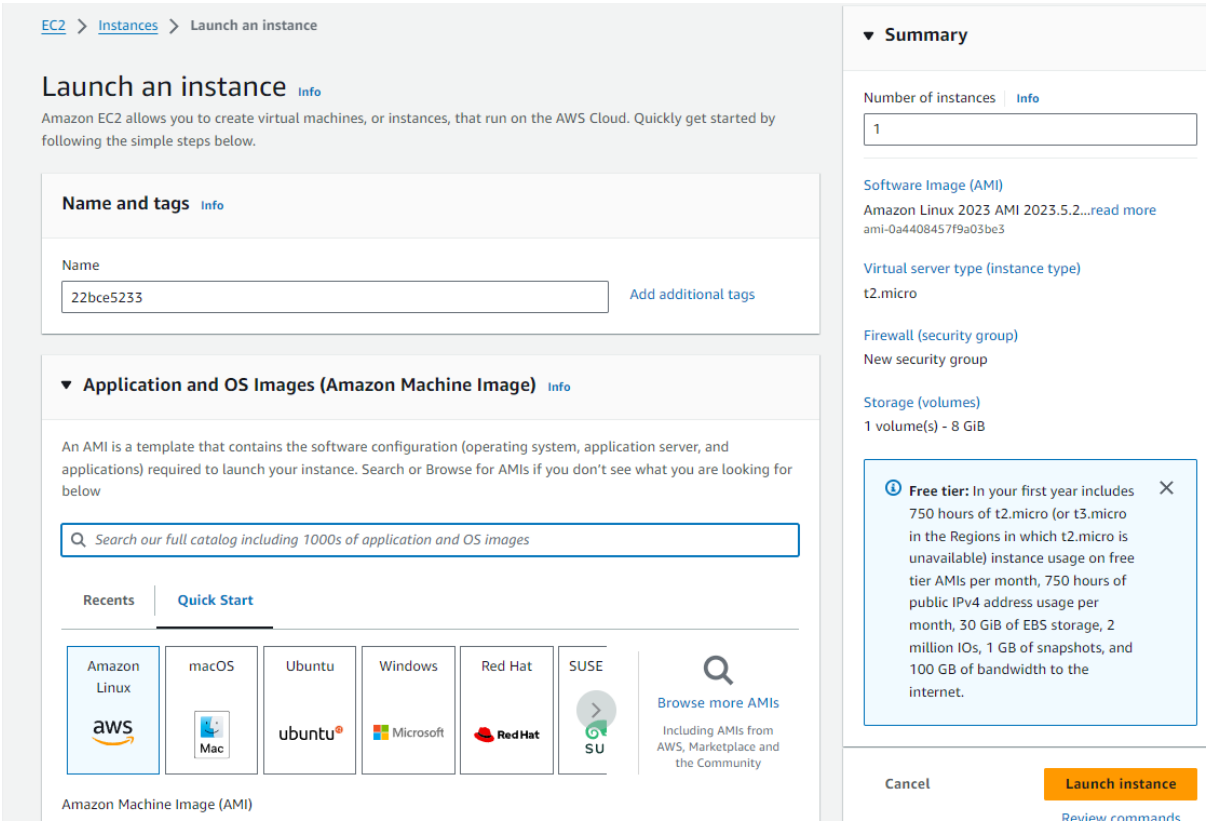
Navigate to EC2 Service



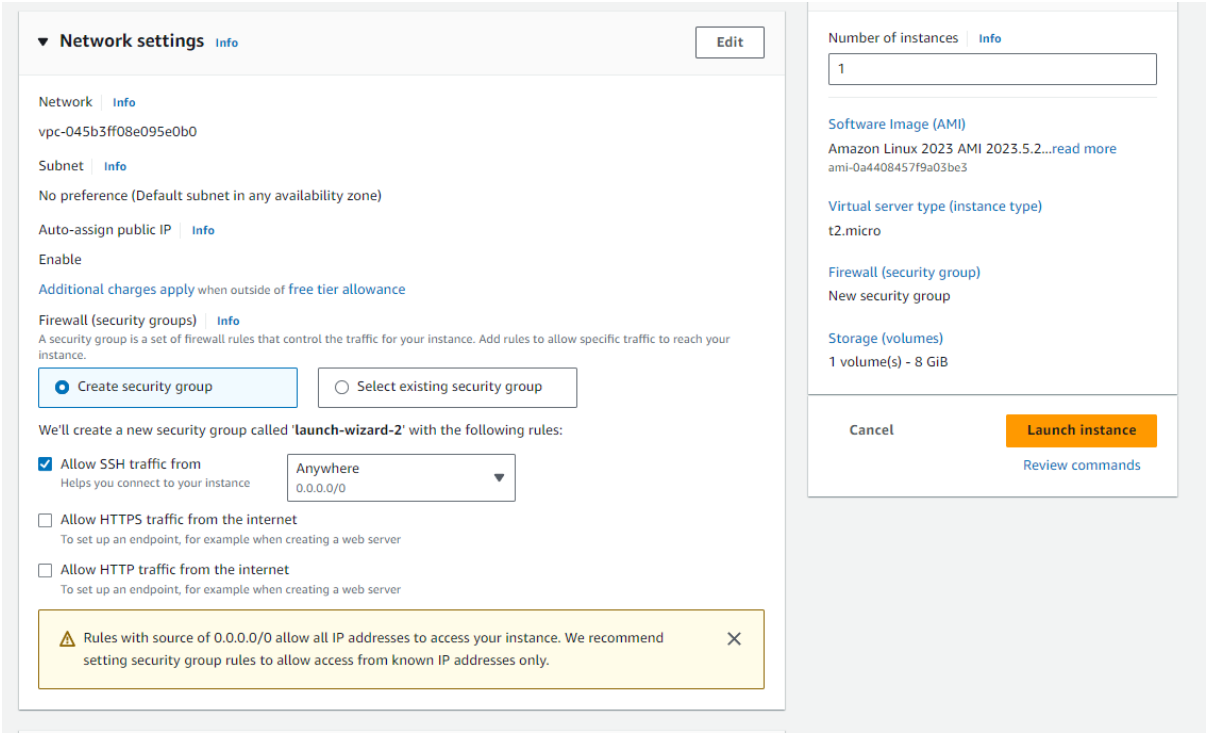
Launching an instance

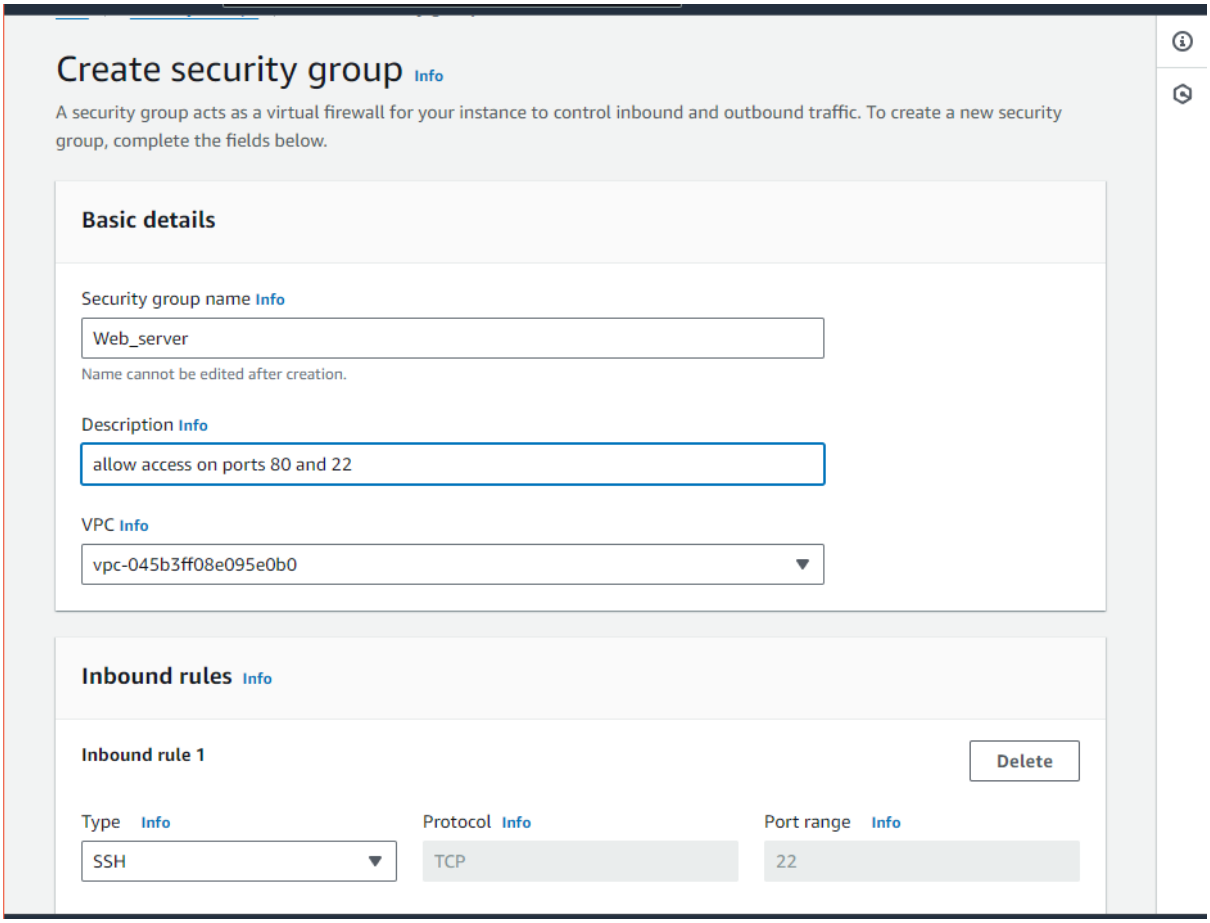


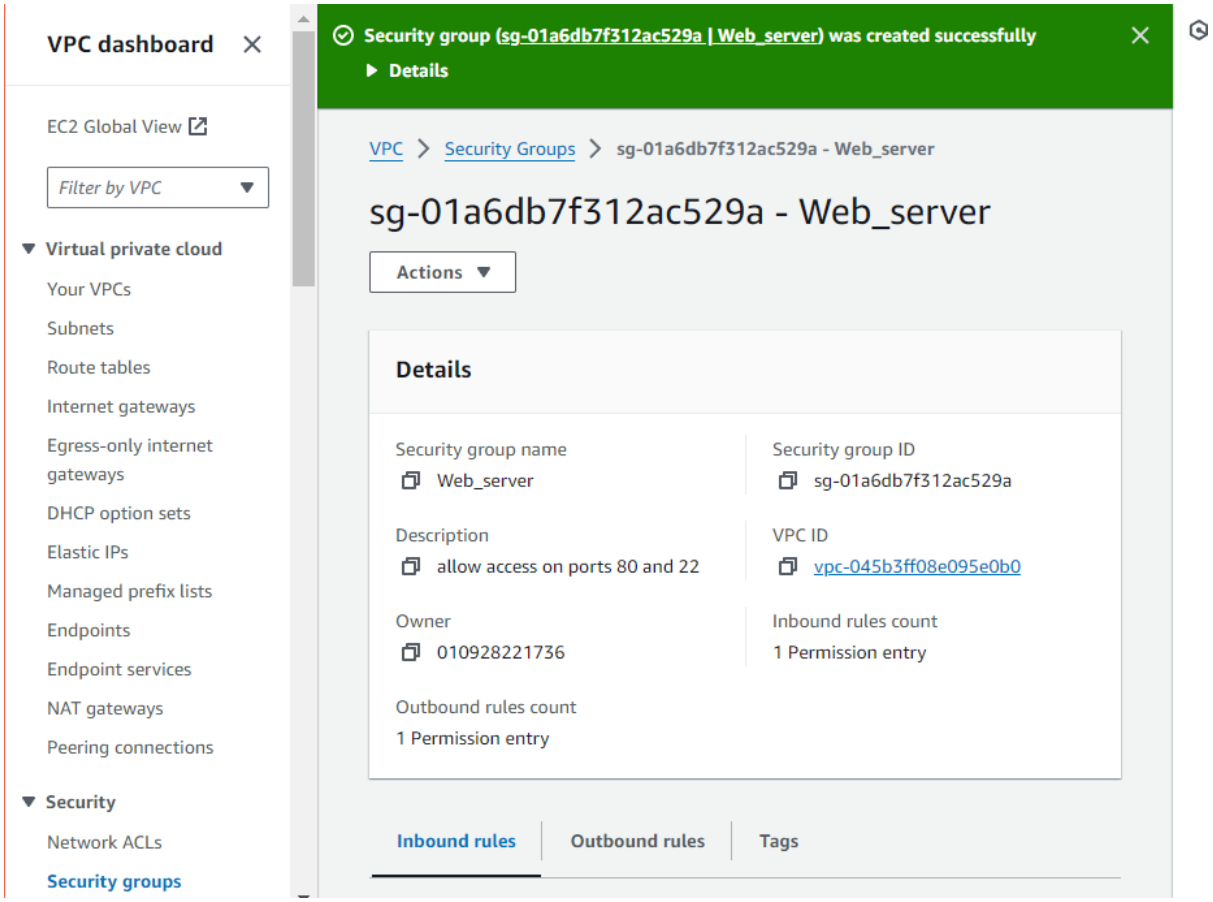
Choose an Amazon Machine Image (AMI)

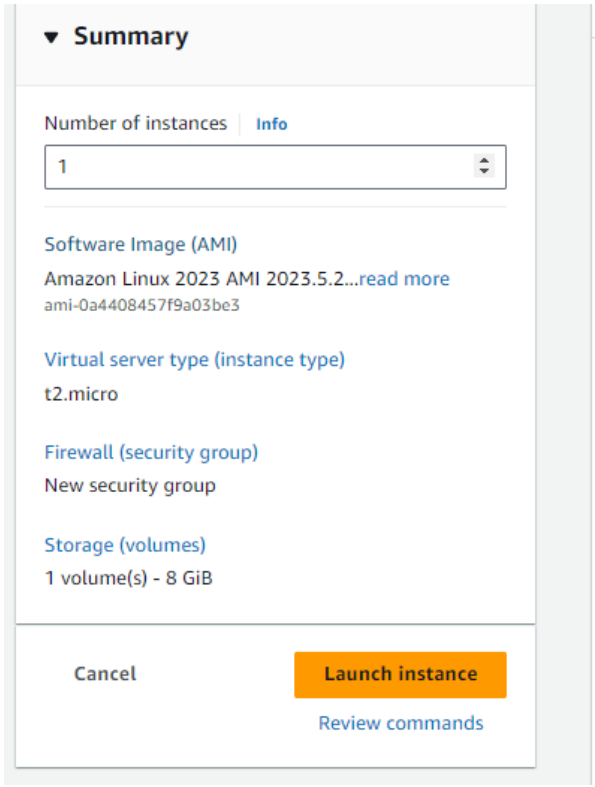


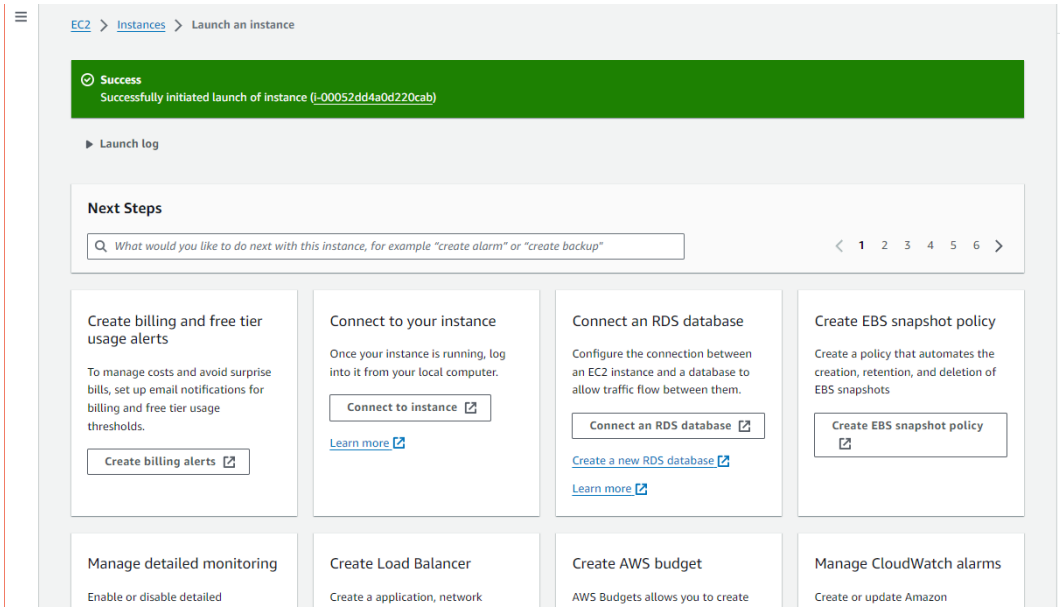
CREATING SECURITY GROUPS AND OPEN PORTS 80 AND 22

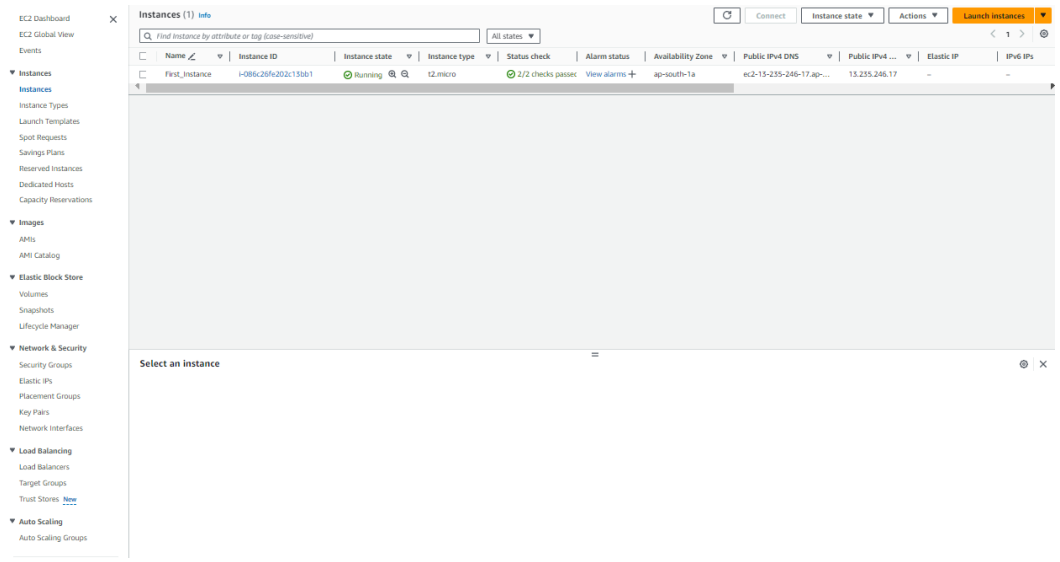


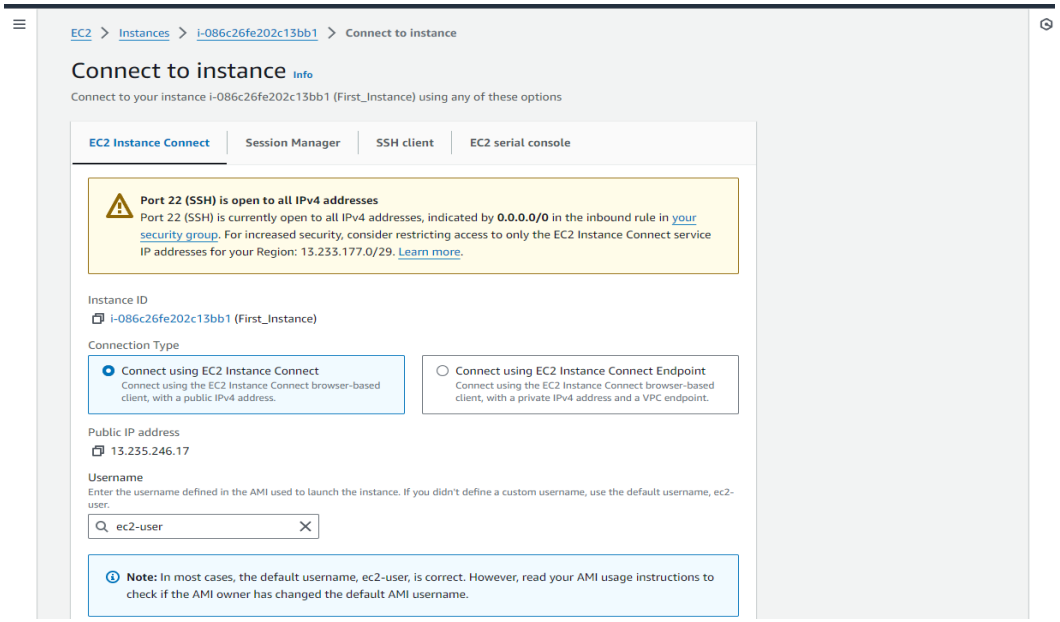



VPC dashboard
EC2 Global View
Filter by VPC
Virtual private cloud
Your VPCs
Subnets
Route tables
Internet gateways
Egress-only internet gateways
DHCP option sets
Elastic IPs
Managed prefix lists
Endpoints
Endpoint services
NAT gateways
Peering connections
Security
Network ACLs
Security groups
Security group (sg-01a6db7f312ac529a | Web_server) was created successfully
Details
VPC > Security Groups > sg-01a6db7f312ac529a - Web_server
sg-01a6db7f312ac529a - Web_server
Actions
Details
Security group name
Web_server
Security group ID
sg-01a6db7f312ac529a
Description
allow access on ports 80 and 22
VPC ID
vpc-045b3ff08e095e0b0
Owner
010928221736
Inbound rules count
1 Permission entry
Outbound rules count
1 Permission entry
Inbound rules
Outbound rules
Tags

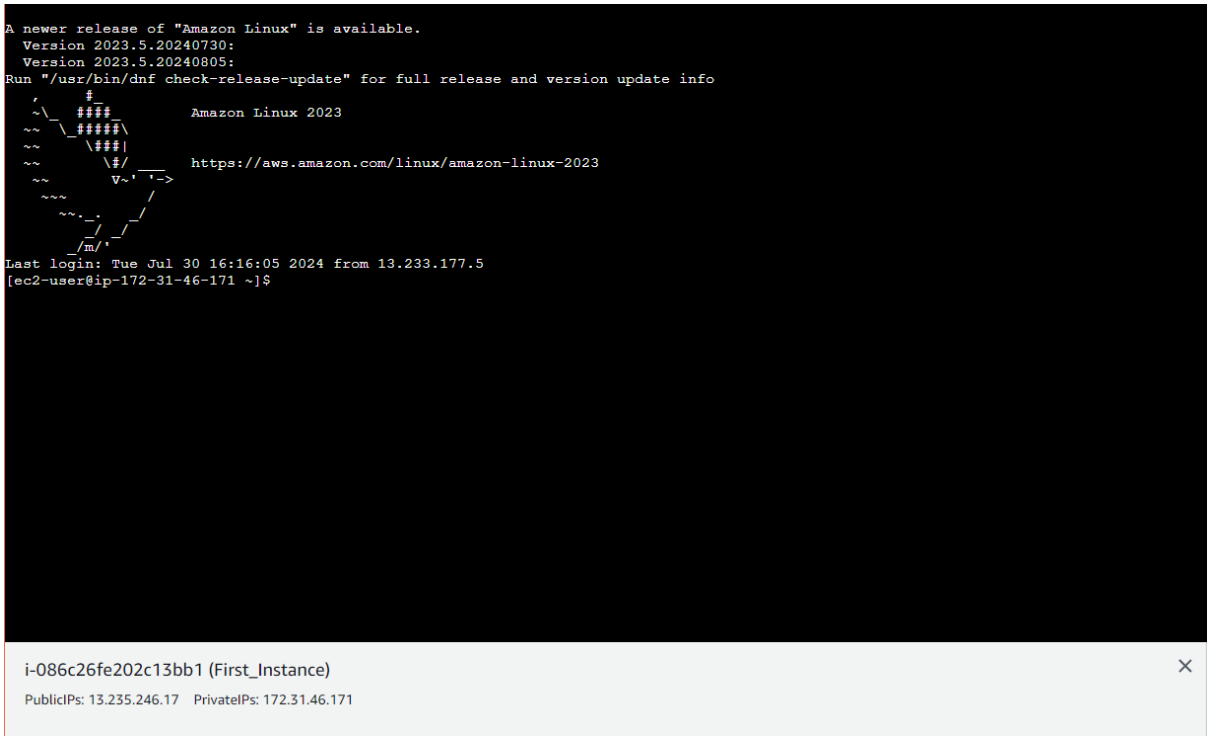

Summary
Number of instances
Info
1
Software Image (AMI)
Amazon Linux 2023 AMI 2023.5.2...read more
ami-0a4408457f9a03be3
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Cancel
Launch instance
Review commands


EC2 > Instances > Launch an instance
Success
Successfully initiated launch of instance (i-00052dd4a0d220cab)
Launch log
Next Steps
What would you like to do next with this instance, for example "create alarm" or "create backup"
Create billing and free tier usage alerts
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.
Create billing alerts
Connect to your instance
Once your instance is running, log into it from your local computer.
Connect to instance
Learn more
Connect an RDS database
Configure the connection between an EC2 instance and a database to allow traffic flow between them.
Connect an RDS database
Create a new RDS database
Learn more
Create EBS snapshot policy
Create a policy that automates the creation, retention, and deletion of EBS snapshots
Create EBS snapshot policy
Manage detailed monitoring
Enable or disable detailed
Create Load Balancer
Create a application, network
Create AWS budget
AWS Budgets allows you to create
Manage CloudWatch alarms
Create or update Amazon

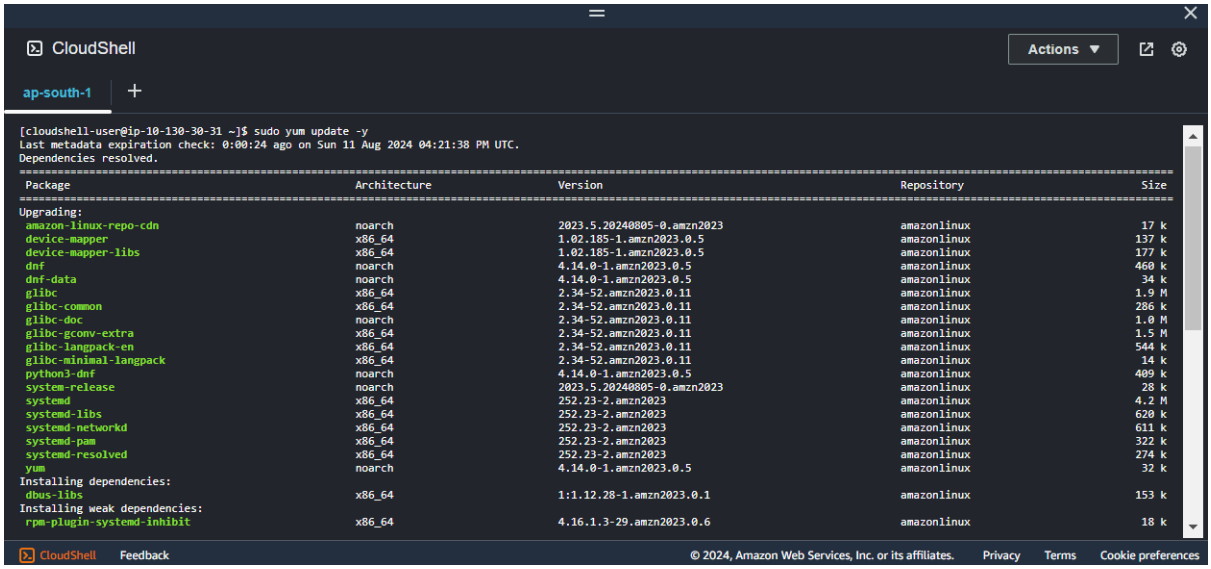

EC2 Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
Load Balancing
Load Balancers
Target Groups
Trust Stores
Auto Scaling
Auto Scaling Groups
Instances (1) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
All states
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DNS
Public IPv4 ...
Elastic IP
IPv6 IPs
First_Instance
i-086c26fe202c13bb1
Running
t2.micro
2/2 checks passed
View alarms
ap-south-1a
ec2-13-235-246-17.ap-...
13.235.246.17
Select an instance

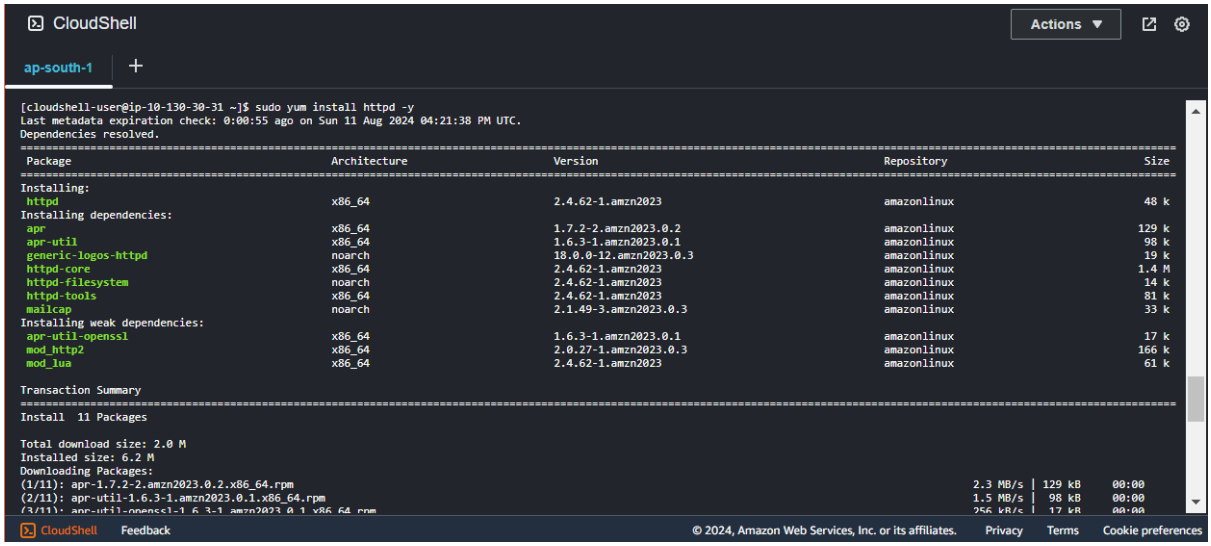

EC2 > Instances > i-086c26fe202c13bb1 > Connect to instance
Connect to instance Info
Connect to your instance i-086c26fe202c13bb1 (First_Instance) using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Port 22 (SSH) is open to all IPv4 addresses
Port 22 (SSH) is currently open to all IPv4 addresses, indicated by 0.0.0.0/0 in the inbound rule in your security group. For increased security, consider restricting access to only the EC2 Instance Connect service IP addresses for your Region: 13.233.177.0/29. Learn more.
Instance ID
i-086c26fe202c13bb1 (First_Instance)
Connection Type
Connect using EC2 Instance Connect
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.
Connect using EC2 Instance Connect Endpoint
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.
Public IP address
13.235.246.17
Username
Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ec2-user.
ec2-user
Note: In most cases, the default username, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

SSH INTO THE EC2 INSTANCE



INSTALLING NECESSARY PACKAGES



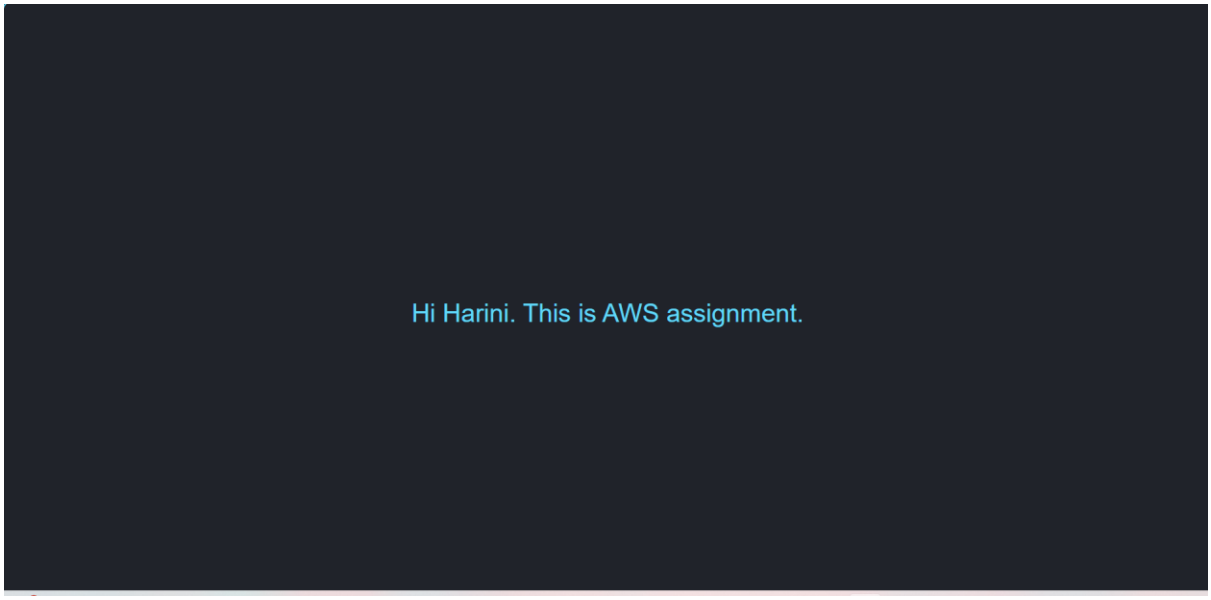


ENABLING HTML AND OPENING NANO EDITOR TO CREATE STATIC WEBSITE

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>AWS Assignment</title>
    <style>
        body {
            margin: 0;
            background-color: #282c34;
            color: #61dafb;
        }
        .message {
            background-color: #20232a;
            font-family: 'Arial', sans-serif;
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
            text-align: center;
            font-size: 2em;
            color: #61dafb;
            border: 2px solid #61dafb;
            border-radius: 10px;
            padding: 20px;
        }
    </style>
</head>

<body>
    <div class="message">
        Hi Harini. This is AWS assignment.
    </div>
</body>

</html>
```


Hi Harini. This is AWS assignment.