

Create VPC

VPC dashboard

EC2 Global View

Filter by VPC:
Select a VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

Carrier gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

VPC > Your VPCs > vpc-021445799bed5eb54

vpc-021445799bed5eb54 / mynewvpc

Actions

Details info

VPC ID vpc-021445799bed5eb54	State Available	DNS hostnames Disabled	DNS resolution Enabled
Tenancy Default	DHCP option set dopt-00d54d98bbb131537	Main route table rtb-06f8452a669de4981	Main network ACL acl-01624c415226d637e
Default VPC No	IPv4 CIDR 10.0.0.0/16	IPv6 pool -	IPv6 CIDR (Network border group) -
Network Address Usage metrics Disabled	Route 53 Resolver DNS Firewall rule groups Failed to load rule groups	Owner ID 143167574241	

Resource mapCIDRsFlow logsTagsIntegrations

Create Subnet

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Endpoint services

NAT gateways

Peering connections

Security

VPC > Subnets > subnet-03ddd06764afa607f

subnet-03ddd06764afa607f / mynewsubnet-pub

Actions

Details

Subnet ID subnet-03ddd06764afa607f	Subnet ARN arn:aws:ec2:us-east-1:143167574241:subnet/subnet-03ddd06764afa607f	State Available	IPv4 CIDR 10.0.0.0/20
Available IPv4 addresses 4091	IPV6 CIDR -	Availability Zone us-east-1a	Availability Zone ID use1-az2
Network border group us-east-1	VPC vpc-021445799bed5eb54 mynewvpc	Route table rtb-06f8452a669de4981	Network ACL acl-01624c415226d637e
Default subnet No	Auto-assign public IPv4 address No	Auto-assign IPv6 address No	Auto-assign customer-owned IPv4 address No
Customer-owned IPv4 pool -	Outpost ID -	IPv4 CIDR reservations -	IPv6 CIDR reservations -
IPv6-only No	Hostname type IP name	Resource name DNS A record Disabled	Resource name DNS AAAA record Disabled
DNS64 Disabled	Owner 143167574241		

Create Internet Gateway

The screenshot shows the 'Create internet gateway' page in the AWS Management Console. The breadcrumb navigation is 'VPC > Internet gateways > Create internet gateway'. The page title is 'Create internet gateway' with an 'Info' link. A descriptive paragraph states: 'An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.' The 'Internet gateway settings' section contains a 'Name tag' field with the value 'myintgateway'. Below this is a 'Tags - optional' section with a table showing a tag with key 'Name' and value 'myintgateway'. There is an 'Add new tag' button and a note 'You can add 49 more tags.' At the bottom right are 'Cancel' and 'Create internet gateway' buttons.

aws Services Search [Alt+S] N. Virginia voclabs/user3012183=gaurav.kothavade@dictinc.com @ 1431-6757-4241

VPC > Internet gateways > Create internet gateway

Create internet gateway [Info](#)

An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.

Internet gateway settings

Name tag
Creates a tag with a key of 'Name' and a value that you specify.

myintgateway

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.

Key	Value - optional	
Q Name	Q myintgateway	X Remove

Add new tag

You can add 49 more tags.

Cancel Create internet gateway

Attach internet gateway to VPC

The screenshot shows the 'Attach to VPC' page in the AWS Management Console. The breadcrumb navigation is 'VPC > Internet gateways > Attach to VPC (igw-01fb29700a99994d1)'. The page title is 'Attach to VPC (igw-01fb29700a99994d1)' with an 'Info' link. A descriptive paragraph states: 'Attach an internet gateway to a VPC to enable the VPC to communicate with the internet. Specify the VPC to attach below.' The 'VPC' section contains an 'Available VPCs' list with a search bar showing 'vpc-021445799bed5eb54'. Below this is an 'AWS Command Line Interface command' section. At the bottom right are 'Cancel' and 'Attach internet gateway' buttons.

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VPC > Internet gateways > Attach to VPC (igw-01fb29700a99994d1)

Attach to VPC (igw-01fb29700a99994d1) [Info](#)

Attach an internet gateway to a VPC to enable the VPC to communicate with the internet. Specify the VPC to attach below.

VPC

Available VPCs
Attach the internet gateway to this VPC.

Q vpc-021445799bed5eb54 X

► AWS Command Line Interface command

Cancel Attach internet gateway

Create Route table

The screenshot shows the 'Create route table' page in the AWS Management Console. The breadcrumb navigation is 'VPC > Route tables > Create route table'. The page title is 'Create route table' with an 'Info' link. A descriptive paragraph states: 'A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.' The 'Route table settings' section contains a 'Name - optional' field with the value 'mynewroutetable', a 'VPC' dropdown menu with the value 'vpc-021445799bed5eb54 (mynewvpc)', and a 'Tags' section with a table showing a tag with key 'Name' and value 'mynewroutetable'. There is an 'Add new tag' button and a note 'You can add 49 more tags.' At the bottom right are 'Cancel' and 'Create route table' buttons.

aws Services Search [Alt+S] N. Virginia voclabs/user3012183=gaurav.kothavade@dictinc.com @ 1431-6757-4241

VPC > Route tables > Create route table

Create route table [Info](#)

A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.

Route table settings

Name - optional
Create a tag with a key of 'Name' and a value that you specify.

mynewroutetable

VPC
The VPC to use for this route table.

vpc-021445799bed5eb54 (mynewvpc) ▼

Tags
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.

Key	Value - optional	
Q Name	Q mynewroutetable	X Remove

Add new tag

You can add 49 more tags.

Cancel Create route table

Editing routes

The screenshot shows the 'Edit routes' interface in the AWS Management Console. The breadcrumb navigation is 'VPC > Route tables > rtb-02db6eca671c17f3c > Edit routes'. The main heading is 'Edit routes'. Below this, there is a table with four columns: 'Destination', 'Target', 'Status', and 'Propagated'. The first row shows a destination of '10.0.0.0/16', a target of 'local' (with a dropdown menu open showing 'local' and 'Internet Gateway'), a status of 'Active' with a green checkmark, and 'Propagated' as 'No'. The second row shows a destination of '0.0.0.0/0' (with a search input), a target of 'Internet Gateway' (with a dropdown menu open showing 'Internet Gateway' and 'igw-01fb29700a99994d1'), a status of '-', and 'Propagated' as 'No'. There is a 'Remove' button next to the second row. At the bottom left is an 'Add route' button. At the bottom right are 'Cancel', 'Preview', and 'Save changes' buttons.

Destination	Target	Status	Propagated
10.0.0.0/16	local	Active	No
0.0.0.0/0	Internet Gateway	-	No

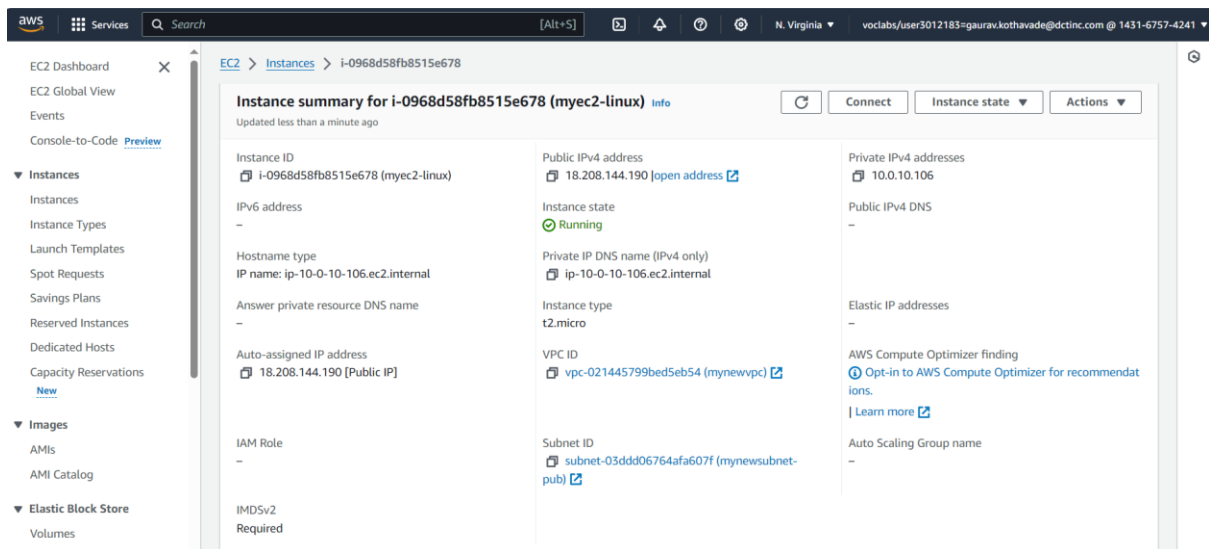
Editing explicit subnet association

The screenshot shows the 'Subnet associations' page in the AWS Management Console. A green notification banner at the top states: 'You have successfully updated subnet associations for rtb-02db6eca671c17f3c / mynewroutetable.' The main heading is 'Route tables (1/3) Info'. Below this is a table with columns: 'Name', 'Route table ID', 'Explicit subnet associ...', 'Edge associations', 'Main', and 'VPC'. The table has three rows: 1. Name: '-', Route table ID: 'rtb-06f8452a669de4981', Explicit subnet associ...: '-', Edge associations: '-', Main: 'Yes', VPC: 'vpc-021445799bec'. 2. Name: '-', Route table ID: 'rtb-09f53db828ac4149c', Explicit subnet associ...: '-', Edge associations: '-', Main: 'Yes', VPC: 'vpc-0045efa997c5'. 3. Name: 'mynewroutetable', Route table ID: 'rtb-02db6eca671c17f3c', Explicit subnet associ...: 'subnet-03ddd06764afa6...', Edge associations: '-', Main: 'No', VPC: 'vpc-021445799bec'. Below the table is a section titled 'rtb-02db6eca671c17f3c / mynewroutetable' with tabs: 'Details', 'Routes', 'Subnet associations' (selected), 'Edge associations', 'Route propagation', and 'Tags'. Under the 'Subnet associations' tab, there is a heading 'Explicit subnet associations (1)' and a table with columns: 'Name', 'Subnet ID', 'IPv4 CIDR', and 'IPv6 CIDR'. The table has one row: Name: 'mynewsubnet-pub', Subnet ID: 'subnet-03ddd06764afa607f', IPv4 CIDR: '10.0.0.0/20', IPv6 CIDR: '-'. There is an 'Edit subnet associations' button at the top right of this section.

Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
-	rtb-06f8452a669de4981	-	-	Yes	vpc-021445799bec
-	rtb-09f53db828ac4149c	-	-	Yes	vpc-0045efa997c5
mynewroutetable	rtb-02db6eca671c17f3c	subnet-03ddd06764afa6...	-	No	vpc-021445799bec

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
mynewsubnet-pub	subnet-03ddd06764afa607f	10.0.0.0/20	-

Create EC2 instance



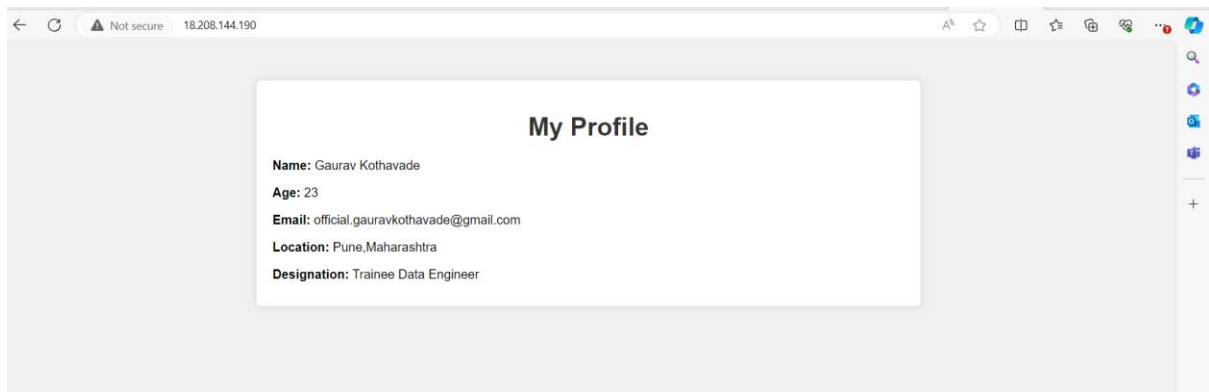
The screenshot displays the AWS Management Console interface. On the left, a navigation menu includes links to EC2 Dashboard, EC2 Global View, Events, Console-to-Code, and a list of resources like Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store, and Volumes. The main content area shows the 'Instance summary for i-0968d58fb8515e678 (myec2-linux)'. The instance is in a 'Running' state. Key details include: Instance ID (i-0968d58fb8515e678), Public IPv4 address (18.208.144.190), Private IPv4 addresses (10.0.10.106), Instance state (Running), Hostname type (IP name: ip-10-0-10-106.ec2.internal), Private IP DNS name (ip-10-0-10-106.ec2.internal), Answer private resource DNS name, Auto-assigned IP address (18.208.144.190), Instance type (t2.micro), VPC ID (vpc-021445799bed5eb54), Subnet ID (subnet-03ddd06764afa607f), IAM Role, and IMDSv2 (Required). There are also buttons for 'Connect', 'Instance state', and 'Actions'.

Transferring html file from local machine to remote machine

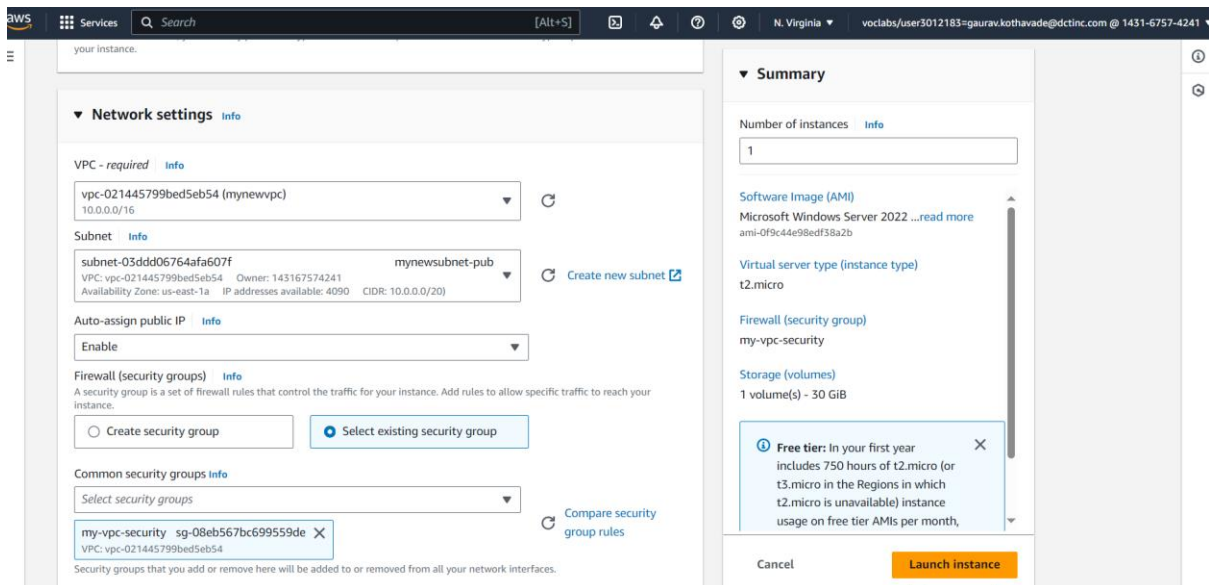
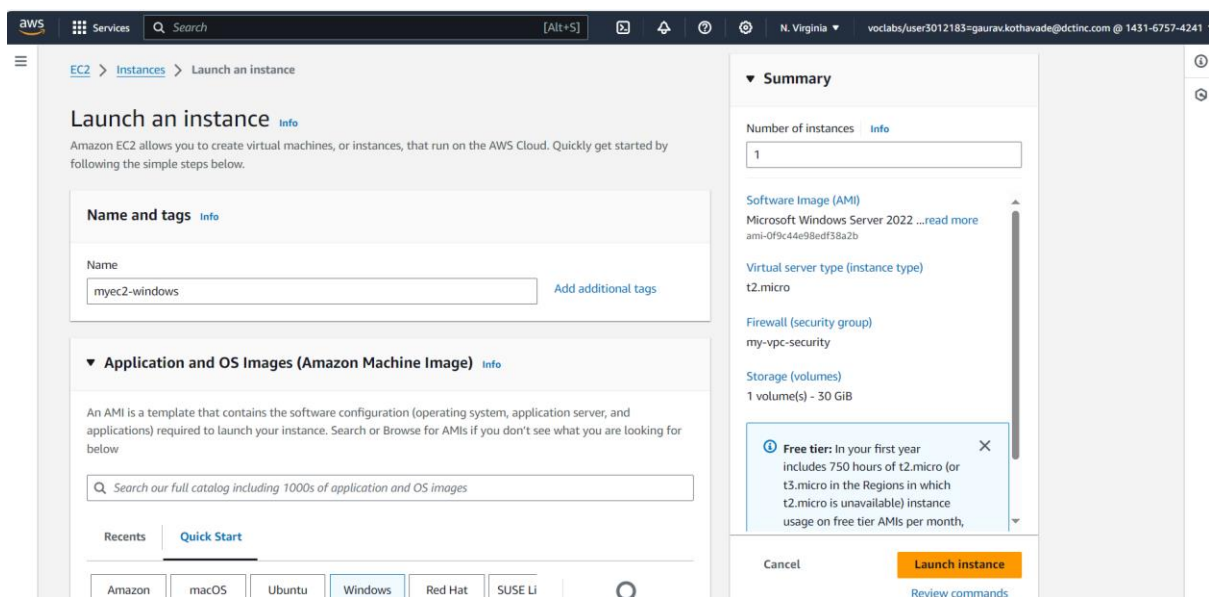
```
PS C:\Users\Gaurav.Kothavade> scp -i C:\Users\Gaurav.Kothavade\Downloads\mynewkey (1).pem C:\Users\Gaurav.Kothavade\Downloads\index.html ec2-user@18.208.144.190:/var/www/html
Warning: Identity file C:\Users\Gaurav.Kothavade\Downloads\mynewkey not accessible: No such file or directory.
ec2-user@18.208.144.190: Permission denied (publickey,gssapi-keyex,gssapi-with-mic).
PS C:\Users\Gaurav.Kothavade> scp -i C:\Users\Gaurav.Kothavade\Downloads\mynewkey1.pem C:\Users\Gaurav.Kothavade\Downloads\index.html ec2-user@18.208.144.190:/var/www/html
scp: /var/www/html/index.html: Permission denied
PS C:\Users\Gaurav.Kothavade> scp -i C:\Users\Gaurav.Kothavade\Downloads\mynewkey1.pem C:\Users\Gaurav.Kothavade\Downloads\index.html ec2-user@18.208.144.190:/var/www/html
scp: /var/www/html/index.html: Permission denied
PS C:\Users\Gaurav.Kothavade> scp -i C:\Users\Gaurav.Kothavade\Downloads\mynewkey1.pem C:\Users\Gaurav.Kothavade\Downloads\index.html ec2-user@18.208.144.190:/var/www/html
index.html
100% 1189 5.4KB/s 00:00
PS C:\Users\Gaurav.Kothavade>
```



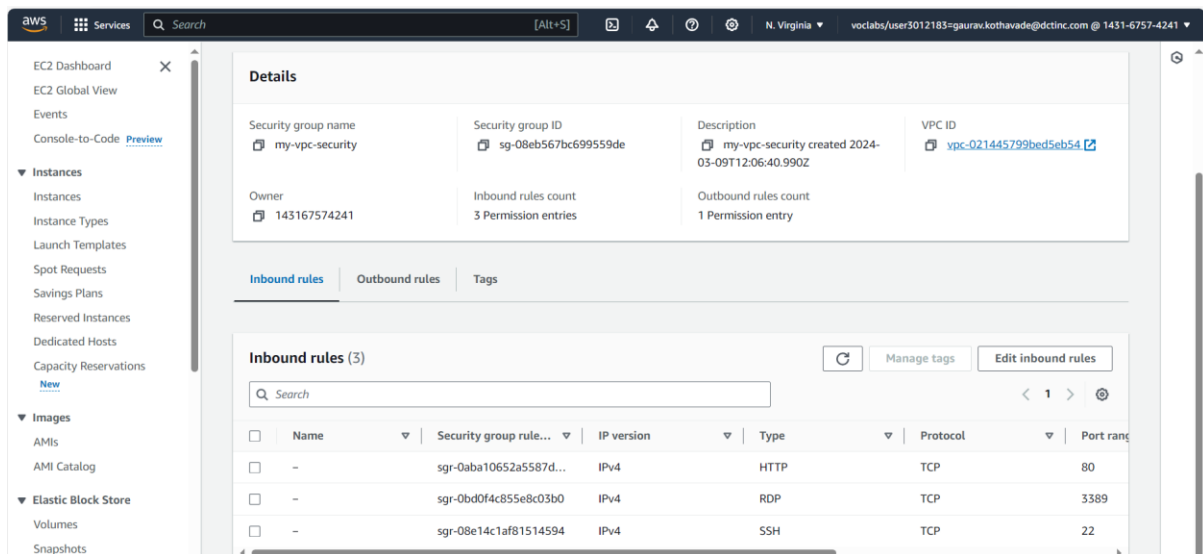
The screenshot shows the AWS Management Console with a terminal window open. The terminal output displays the status of the httpd.service, including the main PID (25084), status (Total requests: 0; Idle/Busy workers 100/0; Requests/sec: 0; Bytes served/sec: 0 B/sec), tasks (177 limit: 1114), memory (13.3M), CPU (67ms), and CGroup (/system.slice/httpd.service). It also shows the command 'systemctl start httpd.service' being executed, followed by the server configuration and listening on port 80. The user then attempts to run 'cd /var/www/html' and 'ls', but receives a 'Permission denied' error. The user then runs 'sudo chown -R \$USER /var/www/html' and 'sudo chmod 777 /var/www/html', followed by 'ls', which shows the 'index.html' file.



Launch new EC2 instance for Windows



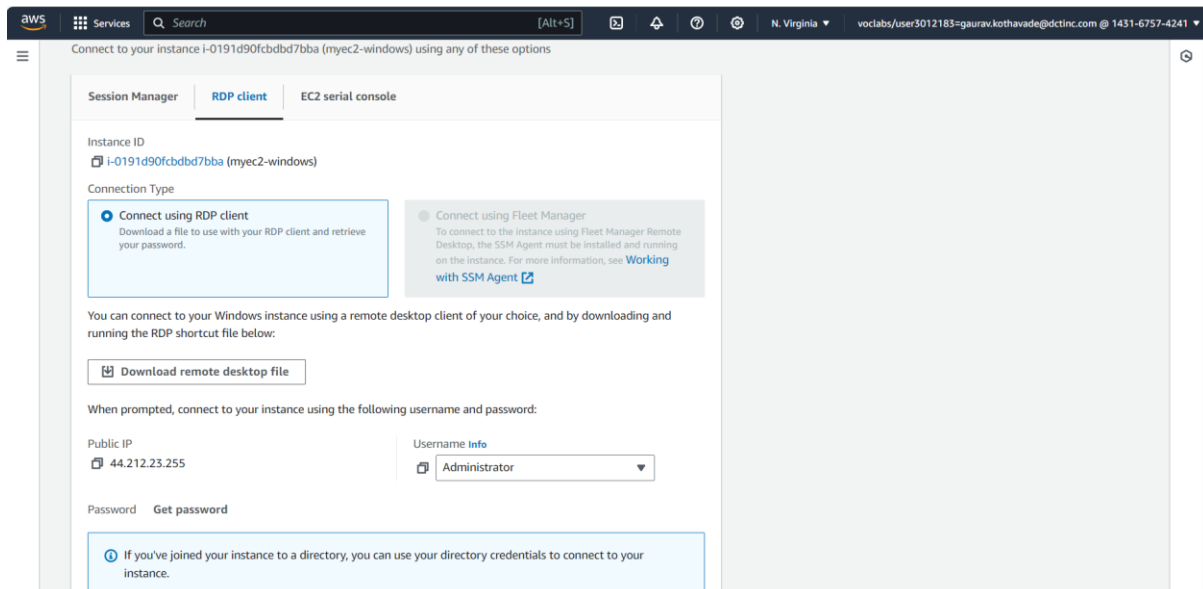
Adding RDP in security group of instance



The screenshot shows the AWS Management Console interface. On the left, the navigation menu includes 'EC2 Dashboard', 'Instances', 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Capacity Reservations', 'Images', 'AMI Catalog', and 'Elastic Block Store'. The main content area displays the 'Details' of a security group named 'my-vpc-security'. The details include the Security group ID (sg-08eb567bc699559de), Description (my-vpc-security created 2024-03-09T12:06:40.990Z), VPC ID (vpc-021445799bed5eb54), Owner (143167574241), Inbound rules count (3 Permission entries), and Outbound rules count (1 Permission entry). Below the details, there are tabs for 'Inbound rules', 'Outbound rules', and 'Tags'. The 'Inbound rules' tab is selected, showing a table of 3 rules.

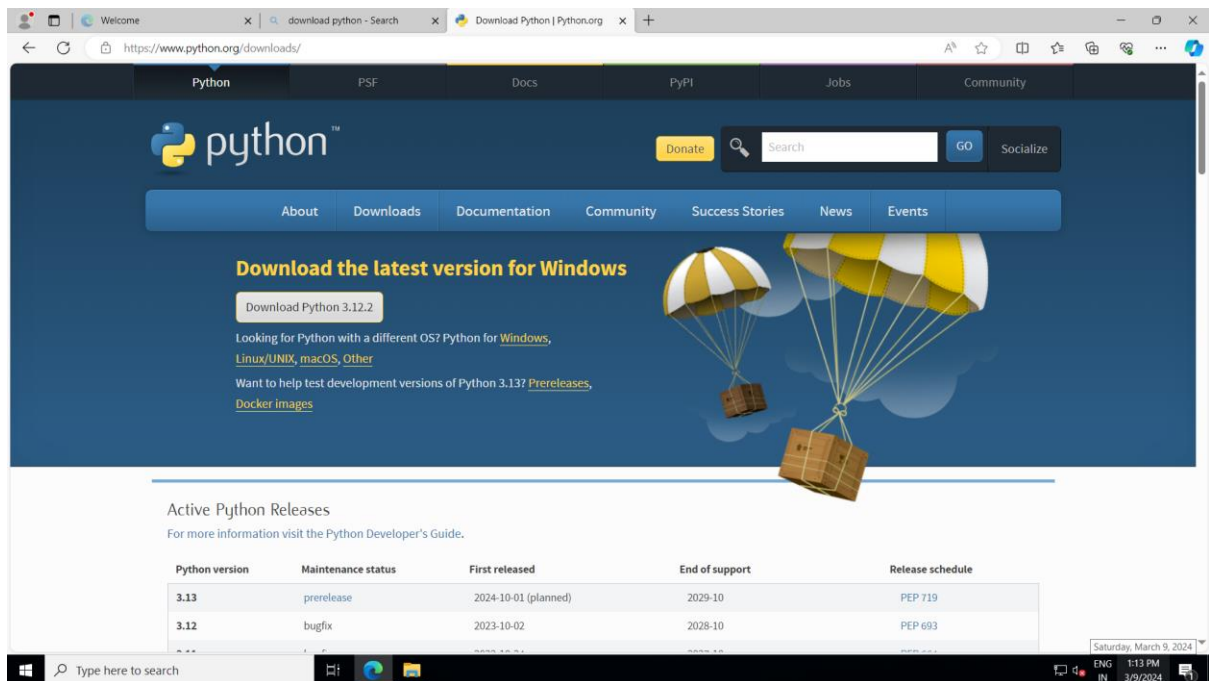
Name	Security group rule...	IP version	Type	Protocol	Port range
-	sgr-0aba10652a5587d...	IPv4	HTTP	TCP	80
-	sgr-0bd0f4c85e8c03b0	IPv4	RDP	TCP	3389
-	sgr-08e14c1af81514594	IPv4	SSH	TCP	22

Connecting EC2 using RDP client, downloading Remote Desktop File



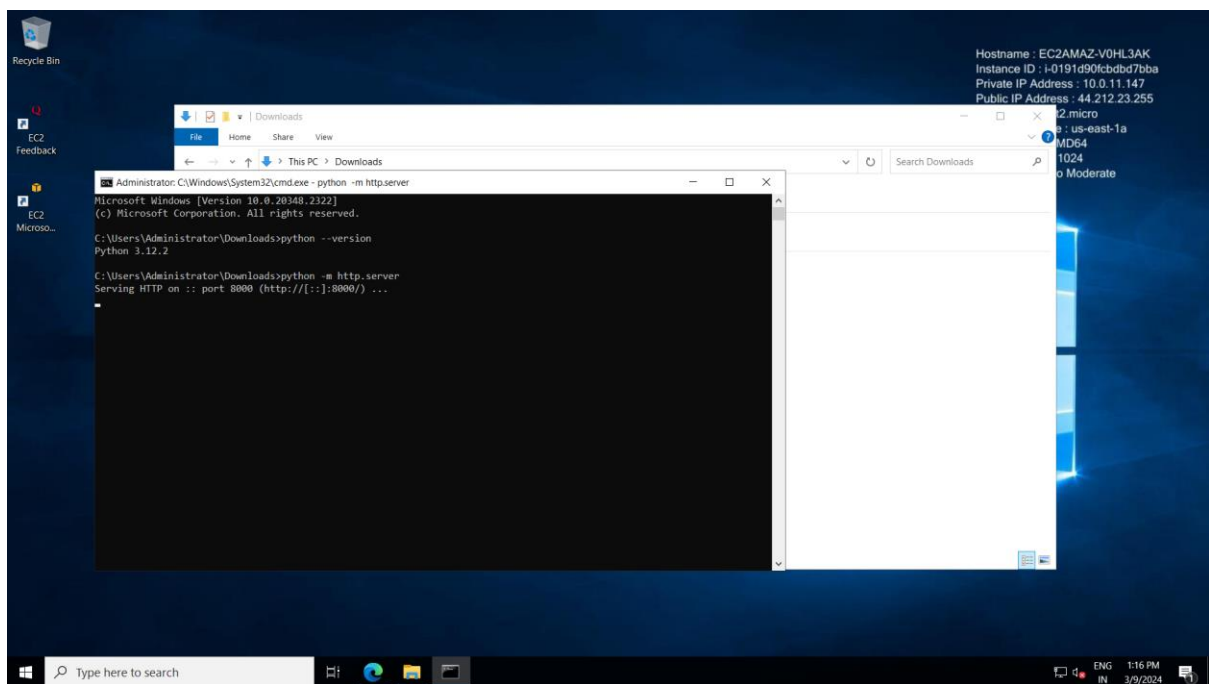
The screenshot shows the AWS Management Console interface for connecting to an EC2 instance. The top navigation bar includes 'Services', 'Search', and the user's account information. The main content area is titled 'Connect to your instance i-0191d90fcbd7bba (myec2-windows) using any of these options'. It features three tabs: 'Session Manager', 'RDP client', and 'EC2 serial console'. The 'RDP client' tab is selected, showing two connection options: 'Connect using RDP client' (selected) and 'Connect using Fleet Manager'. The 'Connect using RDP client' option includes a 'Download remote desktop file' button. Below this, it states: 'You can connect to your Windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below:'. It then provides the Public IP (44.212.23.255) and the Username (Administrator). A note at the bottom states: 'If you've joined your instance to a directory, you can use your directory credentials to connect to your instance.'

Download Python in remote desktop



The screenshot shows the Python.org website's download page. The main heading is "Download the latest version for Windows" with a button to "Download Python 3.12.2". Below this, there are links for other operating systems: "Python for Windows, Linux/UNIX, macOS, Other". A section titled "Active Python Releases" provides a table of release information.

Python version	Maintenance status	First released	End of support	Release schedule
3.13	prerelease	2024-10-01 (planned)	2029-10	PEP 719
3.12	bugfix	2023-10-02	2028-10	PEP 693



The screenshot shows a Windows desktop environment. A command prompt window is open, displaying the following commands and output:

```
Administrator: C:\Windows\System32\cmd.exe - python -m http.server
Microsoft Windows [Version 10.0.20348.2322]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Administrator\Downloads>python --version
Python 3.12.2

C:\Users\Administrator\Downloads>python -m http.server
Serving HTTP on :: port 8000 (http://[::]:8000/) ...
```

A file explorer window is also open, showing the contents of the Downloads folder. The desktop background is the standard Windows blue wallpaper. The taskbar at the bottom shows the Start button, search bar, and several pinned applications including Edge, File Explorer, and Task Manager. The system tray on the right shows the date and time as Saturday, March 9, 2024, 1:13 PM.

