

## Practical 6

The image displays two screenshots of the AWS Management Console interface.

**Top Screenshot: Console Home**

- Header:** AWS logo, Services menu, Search bar, and user profile (Siddh Vyas).
- Recently visited:** Lists S3 and IAM services.
- Applications (0):** Shows the current region as Asia Pacific (Mumbai) and a search bar for applications. A table lists available regions and their IDs (e.g., US East (N. Virginia) - us-east-1).
- Welcome to AWS:** Provides links for getting started with AWS, training, and certification.
- AWS Health:** Displays metrics for open issues (0), scheduled changes (0), and other notifications (0) over the past 7 days.
- Cost and usage:** Shows a message that data is unavailable and prompts the user to turn on Cost Explorer.

**Bottom Screenshot: Search Results for 'vpc'**

- Header:** Similar to the top screenshot, but with the search bar containing 'vpc'.
- Search results for 'vpc':**
  - Services:** Lists VPC (Isolated Cloud Resources), AWS Firewall Manager (Central management of firewall rules), and Detective (Investigate and Analyze potential security issues).
  - Features:** Lists Dashboard, VPC feature, Route 53 VPCs, Route 53 feature, VPC Reachability Analyzer, and VPC feature.
  - Resources:** Lists Introducing resource search (Enable to show cross-region resources for your account in search results. Takes less).
- Right Panel:** Shows the 'Applications' section for the selected region (Mumbai), indicating no applications are present and providing a 'Create application' button.

Home | VPC Console

ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#Home:

Services

Search

[Alt+S]

Mumbai

SiddhVyas

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

DNS firewall

Rule groups

Domain lists

Network Firewall

Firewalls

Firewall policies

Create VPC

Launch EC2 Instances

Note: Your Instances will launch in the Asia Pacific region.

Resources by Region

You are using the following Amazon VPC resources

Refresh Resources

VPCs

See all regions

Asia Pacific 1

NAT Gateways

See all regions

Asia Pacific 0

Subnets

See all regions

Asia Pacific 3

VPC Peering Connections

See all regions

Asia Pacific 0

Route Tables

See all regions

Asia Pacific 0

Network ACLs

See all regions

Asia Pacific 1

Internet Gateways

See all regions

Asia Pacific 0

Security Groups

See all regions

Asia Pacific 1

Egress-only Internet Gateways

See all regions

Asia Pacific 0

Customer Gateways

See all regions

Asia Pacific 0

DHCP option sets

See all regions

Asia Pacific 1

Virtual Private Gateways

See all regions

Asia Pacific 0

Endpoints

See all regions

Asia Pacific 0

Site-to-Site VPN Connections

See all regions

Asia Pacific 0

Instance Connect Endpoints

See all regions

Asia Pacific 0

Running Instances

See all regions

Asia Pacific 0

Service Health

View complete service health details

Settings

Zones

Console Experiments

Additional Information

VPC Documentation

All VPC Resources

Forums

Report an Issue

AWS Network Manager

AWS Network Manager provides tools and features to help you manage and monitor your network on AWS. Network Manager makes it easier to perform connectivity management, network monitoring and troubleshooting, IP management, and network security and governance.

Get started with Network Manager

Site-to-Site VPN Connections

CloudShell

Feedback

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07:27

23-10-2024

securityGroups | VPC Console

ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#securityGroups:

Services

Search

[Alt+S]

Mumbai

SiddhVyas

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Firewall policies

Security Groups (1)

Find resources by attribute or tag

Actions

Export security groups to CSV

Create security group

	Name	Security group ID	Security group name	VPC ID	Description	Owner
<input type="checkbox"/>	-	sg-019d5f5d7e46c54b6	default	vpc-0fcfe44671ee216d3	default VPC security group	692859924440

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ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#CreateSecurityGroup:

Services Search [Alt+S]

Mumbai SiddhVyas

VPCCreate security group

Create security group

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

Basic details

Security group name info

Webserver-SV

Name cannot be edited after creation.

Description info

Allow access on ports 80 and 22

VPC info

vpc-0fcfe44671ee216d3

Inbound rules info

Type info	Protocol info	Port range info	Source info	Description - optional info
HTTP	TCP	80	Anywhere-I...	
SSH	TCP	22	My IP	

Add rule

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

Outbound rules info

Type info	Protocol info	Port range info	Destination info	Description - optional info
All traffic	All	All	Custom	

Add rule

Rules with destination of 0.0.0.0/0 or ::/0 allow your instances to send traffic to any IPv4 or IPv6 address. We recommend setting security group rules to be more restrictive and to only allow traffic to specific known IP addresses.

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.

No tags associated with the resource.

Add new tag

You can add up to 50 more tags

Cancel

Create security group

F002

Siddh Vyas

40772240002

SecurityGroup | VPC Console

ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#SecurityGroupgroupId=sg-0cb6d8b5235e085d3

VPC dashboard

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Firewall policies

Security group (sg-0cb6d8b5235e085d3 | Webserver-SV) was created successfully

Details

VPC > Security Groups > sg-0cb6d8b5235e085d3 - Webserver-SV

sg-0cb6d8b5235e085d3 - Webserver-SV

Actions

Details

Security group name: Webserver-SV

Security group ID: sg-0cb6d8b5235e085d3

Description: Allow access on ports 80 and 22

VPC ID: vpc-0f4e44671ee216d3

Owner: 692859924440

Inbound rules count: 2

Outbound rules count: 1

Permission entries: 1

Inbound rules

Outbound rules

Tags

Inbound rules (2)

Search

Manage tags

Edit inbound rules

	Name	Security group rule...	IP version	Type	Protocol	Port range	Source	Description
<input type="checkbox"/>	-	sgr-0e70b676f57c2beae	IPv4	SSH	TCP	22	115.242.5.146/32	-
<input type="checkbox"/>	-	sgr-0372bc418ca2340...	IPv4	HTTP	TCP	80	0.0.0.0/0	-

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SecurityGroup | VPC Console

ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#SecurityGroupgroupId=sg-0cb6d8b5235e085d3

Search for 'ec2'

Services

EC2

Virtual Servers in the Cloud

Top features

Dashboard Launch templates Instances Spot Instance requests Savings plans

EC2 Image Builder

A managed service to automate build, customize and deploy OS images

Recycle Bin

Protect resources from accidental deletion

Features

Dashboard

EC2 feature

EC2 Instances

CloudWatch feature

AMIs

EC2 feature

Resources

Introducing resource search

Enable to show cross-region resources for your account in search results. Takes less

sg-0cb6d8b5235e085d3 - Webserver-SV

Details

Security group name: Webserver-SV

Security group ID: sg-0cb6d8b5235e085d3

Description: Allow access on ports 80 and 22

VPC ID: vpc-0f4e44671ee216d3

Owner: 692859924440

Inbound rules count: 2

Outbound rules count: 1

Permission entries: 1

Inbound rules

Outbound rules

Tags

Inbound rules (2)

Search

Manage tags

Edit inbound rules

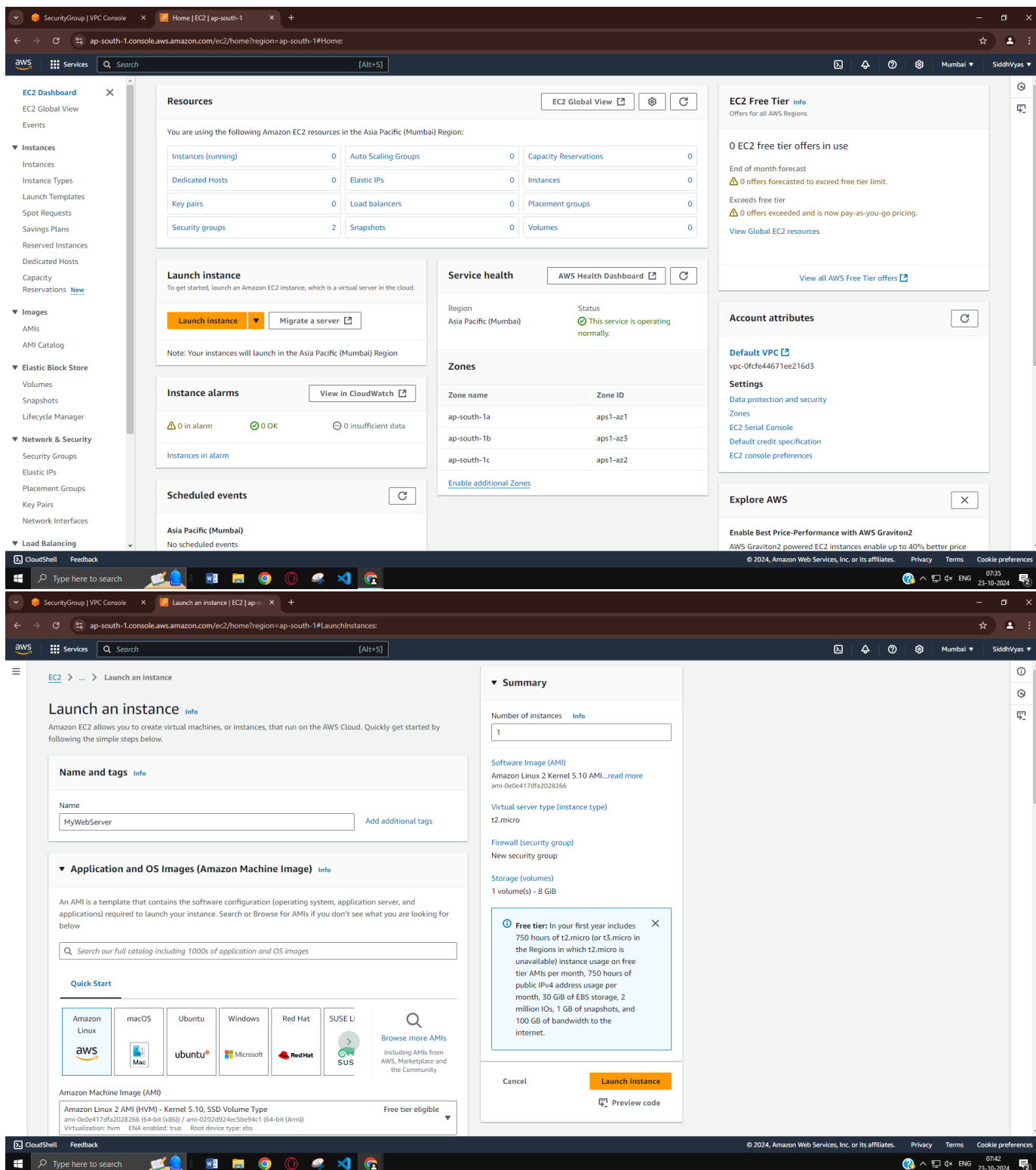
	Port range	Source	Description
<input type="checkbox"/>	22	115.242.5.146/32	-
<input type="checkbox"/>	80	0.0.0.0/0	-

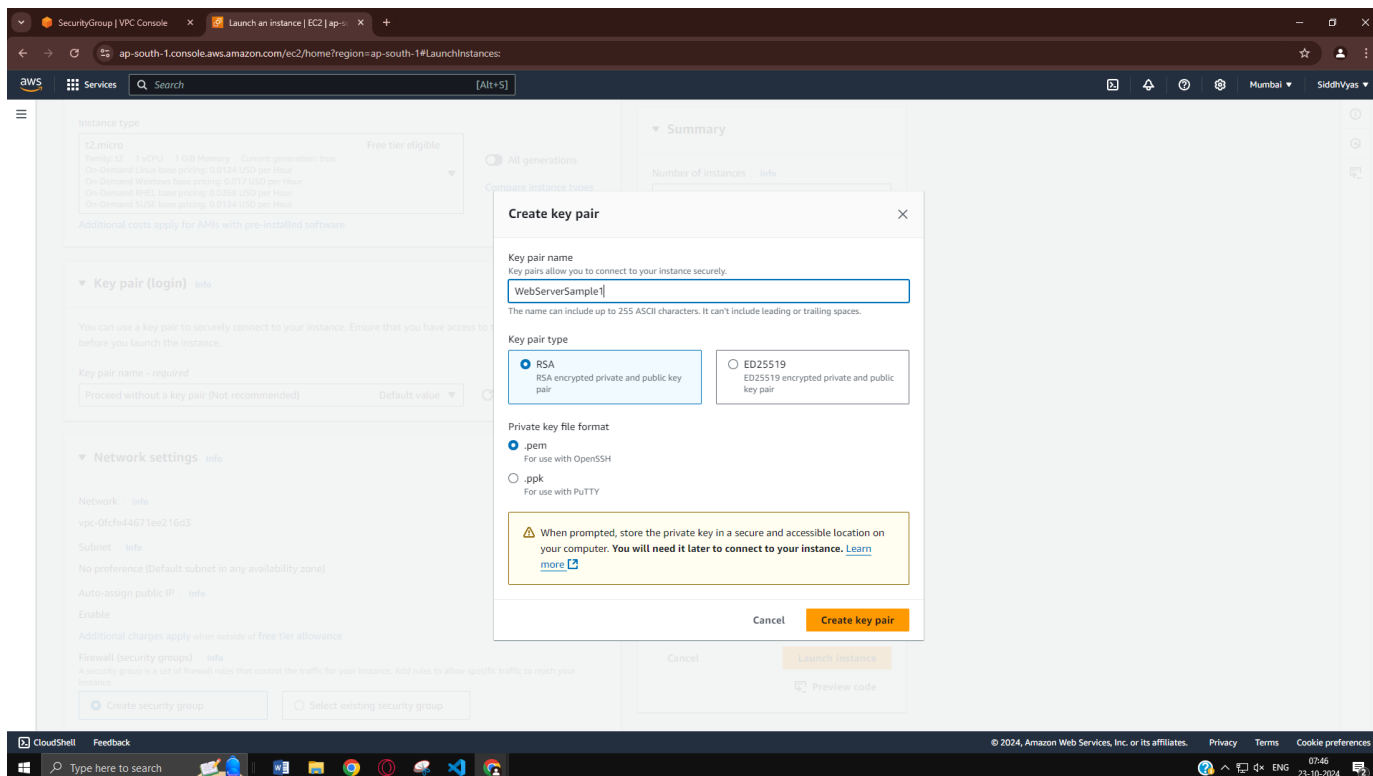
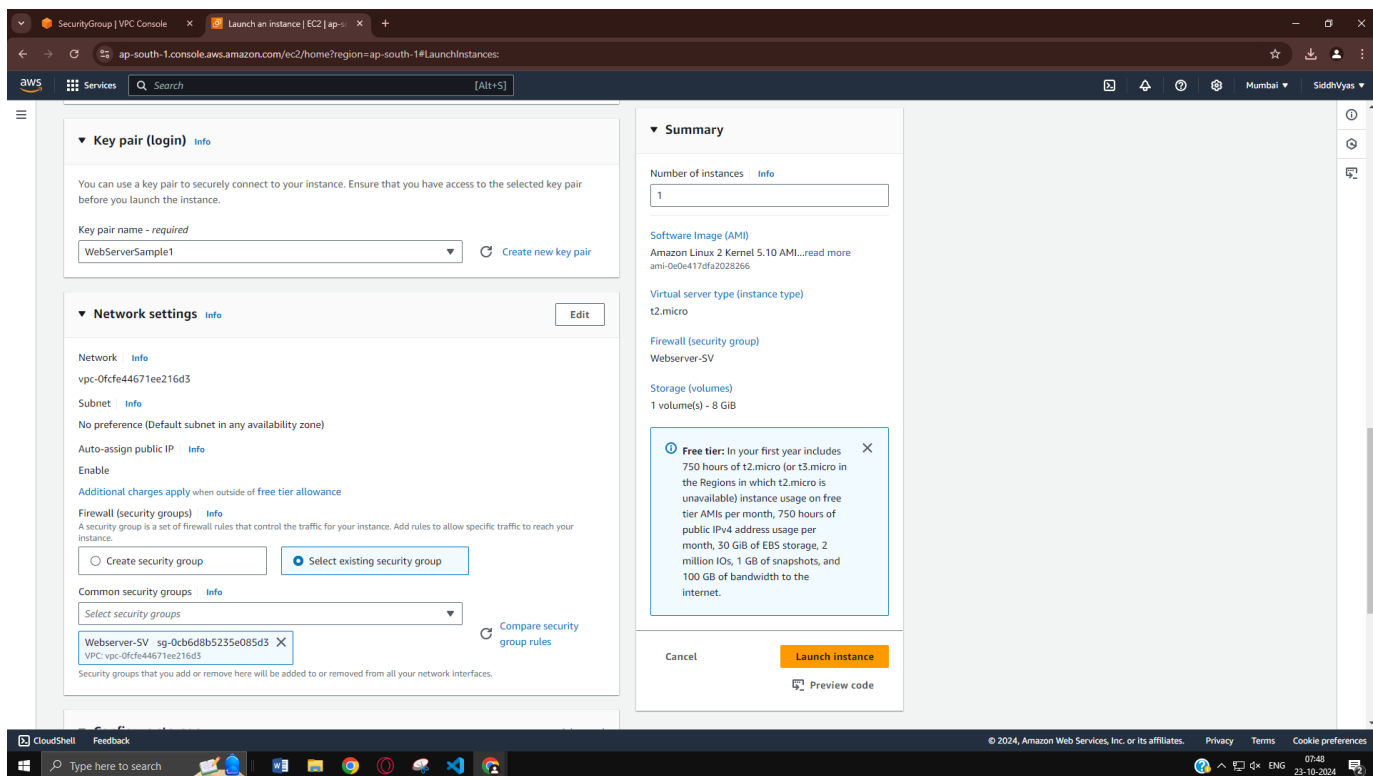
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SecurityGroup | VPC Console x Launch an instance | EC2 | ap-south-1 x +

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances

Services Search [Alt+S]

EC2 > ... > Launch an instance

**Success**  
Successfully initiated launch of instance (i-06aed249b15b19cd7)

► Launch log

**Next Steps**  
What would you like to do next with this instance, for example "create alarm" or "create backup"

1 2 3 4 5 6 >

**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 monitoring for the instance. If you enable detailed monitoring, the Amazon EC2 console displays monitoring graphs with a 1-minute period.  
[Manage detailed monitoring](#)

**Create Load Balancer**  
Create an application, network gateway or classic Elastic Load Balancer.  
[Create Load Balancer](#)

**Create AWS budget**  
AWS Budgets allows you to create budgets, forecast spend, and take action on your costs and usage from a single location.  
[Create AWS budget](#)

**Manage CloudWatch alarms**  
Create or update Amazon CloudWatch alarms for the instance.  
[Manage CloudWatch alarms](#)

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Type here to search

SecurityGroup | VPC Console x Instances | EC2 | ap-south-1 x +

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances?v=3&case=tag:true%5Cclient:false%5Cregex=tag:false%5Cclient:false&sort=publicip

Services Search [Alt+S]

EC2 Dashboard x

EC2 Global View

Events

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity

Reservations **New**

▼ 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

**Instances (1/1) Info**

Last updated 1 minute ago

Connect Instance state Actions **Launch instances**

Find Instance by attribute or tag (case-sensitive) All states

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 address	Elastic IP
<input checked="" type="checkbox"/>	MyWebServer	i-06aed249b15b19cd7	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1a	ec2-65-1-135-70.ap-so...	65.1.135.70	-

**i-06aed249b15b19cd7 (MyWebServer)**

Details Status and alarms Monitoring Security Networking Storage Tags

▼ Instance summary Info

Instance ID i-06aed249b15b19cd7	Public IPv4 address 65.1.135.70   <a href="#">open address</a>	Private IPv4 addresses 172.31.47.69
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-65-1-135-70.ap-south-1.compute.amazonaws.com   <a href="#">open address</a>
Hostname type IP name: ip-172-31-47-69.ap-south-1.compute.internal	Private IP DNS name (IPv4 only) ip-172-31-47-69.ap-south-1.compute.internal	Elastic IP addresses -
Answer private resource DNS name IPv4 (A)	Instance type t2.micro	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations.   <a href="#">Learn more</a>
Auto-assigned IP address 65.1.135.70 [Public IP]	VPC ID vpc-0fcfe44671ee216d3	

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Type here to search

SecurityGroup | VPC Console x Connect to instance | EC2 | ap- x +

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ConnectToInstance:instanceId=i-06aed249b15b19cd7

Services Search [Alt+S]

EC2 > Instances > i-06aed249b15b19cd7 > Connect to instance

### Connect to instance Info

Connect to your instance i-06aed249b15b19cd7 (MyWebServer) using any of these options

EC2 Instance Connect | Session Manager | **SSH client** | EC2 serial console

Instance ID  
i-06aed249b15b19cd7 (MyWebServer)

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is WebServerSample1.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.  
chmod 400 "WebServerSample1.pem"
4. Connect to your instance using its Public DNS:  
ec2-65-1-135-70.ap-south-1.compute.amazonaws.com

Example:  
ssh -i "WebServerSample1.pem" ec2-user@ec2-65-1-135-70.ap-south-1.compute.amazonaws.com

**Note:** In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

Cancel

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