

EC2 Management Console | VPC Management Console

https://ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#SecurityGroups:

Services Search [Alt+S] Mumbai The Eshwar Kanna

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**

Network Analysis  
Reachability Analyzer  
Network Access Analyzer

### Security Groups (16)

Filter security groups

	Name	Security group ID	Security group name	VPC ID	Descr
<input type="checkbox"/>	-	sg-0219afd93183f4750	launch-wizard-43	vpc-06f405c2a337e0f4f	launch
<input type="checkbox"/>	-	sg-06086b2e18fb28704	launch-wizard-45	vpc-06f405c2a337e0f4f	launch
<input type="checkbox"/>	-	sg-0d1129c1909df2af1	instance-sg-3	vpc-06f405c2a337e0f4f	Create
<input type="checkbox"/>	-	sg-07a2b5c156a7392da	launch-wizard-3	vpc-06f405c2a337e0f4f	launch

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EC2 Management Console | VPC Management Console

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

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## 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](#)  
allow\_web\_ssh  
Name cannot be edited after creation.

Description [Info](#)  
Allows SSH access to developers

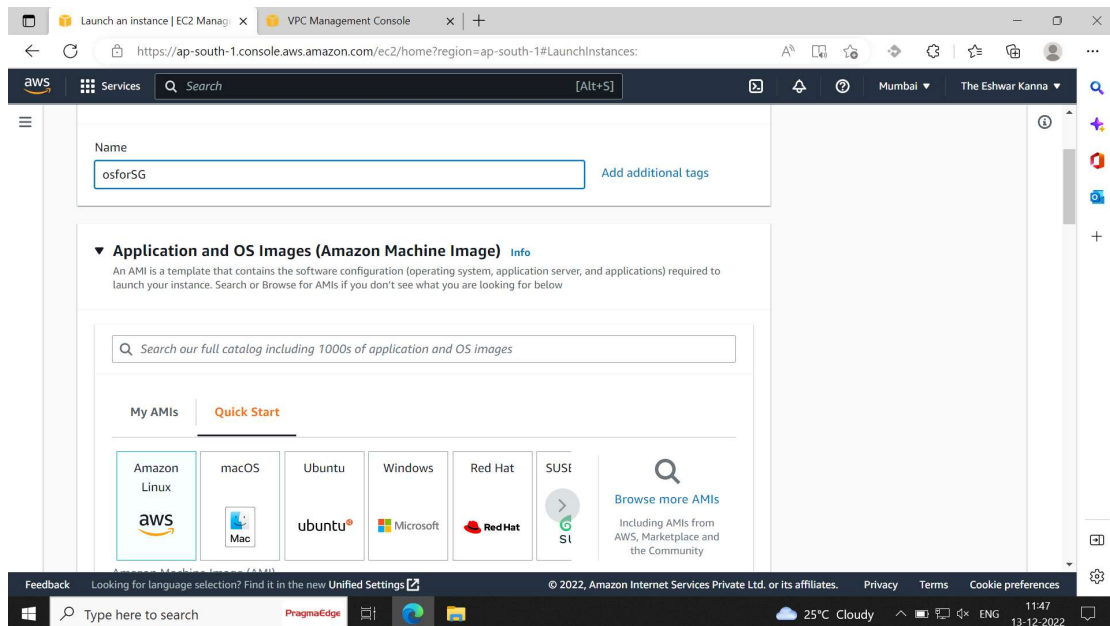
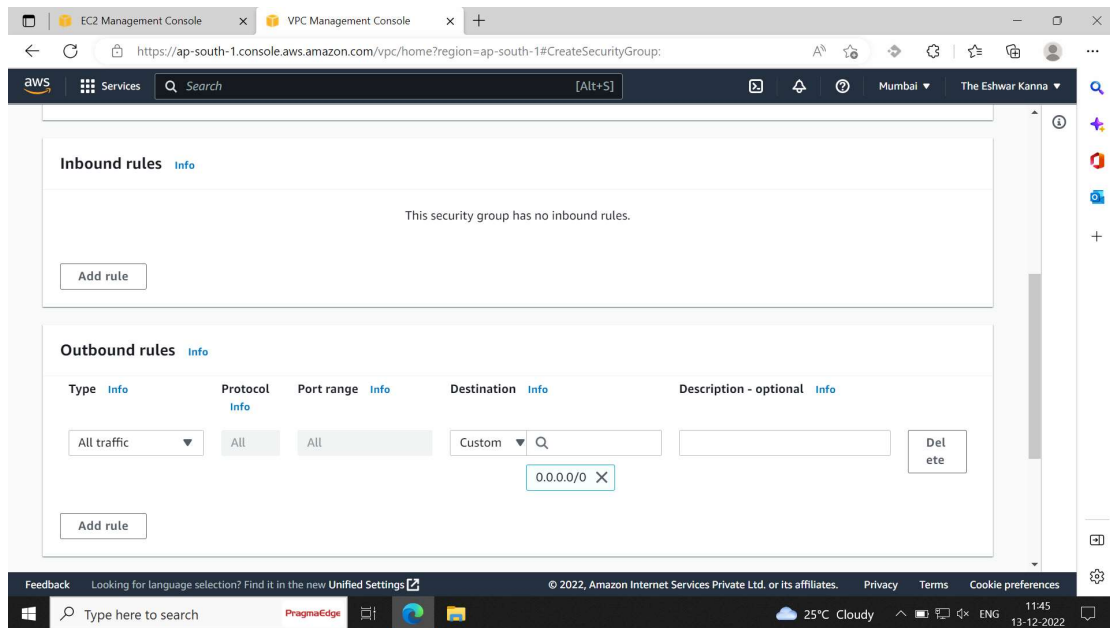
VPC [Info](#)  
vpc-06f405c2a337e0f4f

**Inbound rules** [Info](#)

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Launch an instance | EC2 Management Console | VPC Management Console

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

Services Search [Alt+S]

Network settings

Network [Info](#)  
vpc-06f405c2a337e0f4f

Subnet [Info](#)  
No preference (Default subnet in any availability zone)

Auto-assign public IP [Info](#)  
Enable

Firewall (security groups) [Info](#)  
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☐ Create security group ☒ Select existing security group

Security groups [Info](#)  
Select security groups [Compare security group rules](#)

allow\_web\_ssh sg-096ae1fa6a48917b3 X  
VPC: vpc-06f405c2a337e0f4f

▼ Configure storage [Info](#) [Advanced](#)

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EC2 Management Console | VPC Management Console

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

Services Search [Alt+S]

New EC2 Experience Tell us what you think

EC2 Dashboard  
EC2 Global View  
Events  
Tags  
Limits

▼ Instances

Instances [New](#)  
Instance Types  
Launch Templates  
Spot Requests  
Savings Plans  
Reserved Instances [New](#)  
Dedicated Hosts  
Capacity Reservations

▼ Images

Instances (1/5) [Info](#) [Refresh](#) [Connect](#) [Instance state](#) [Actions](#) [Launch Instances](#)

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
target-linux-1	i-0d4858a899836f7d9	Stopped	t2.micro	-	No alarms
docker for pro...	i-0f108efbe333ae7f6	Stopped	t2.small	-	No alarms
<input checked="" type="checkbox"/> osforSG	i-0625fe8e037739f03	Pending	t2.micro	-	No alarms

Instance: i-0625fe8e037739f03 (osforSG)

[Details](#) [Security](#) [Networking](#) [Storage](#) [Status checks](#) [Monitoring](#) [Tags](#)

▼ Instance summary [Info](#)

Instance ID i-0625fe8e037739f03 (osforSG)	Public IPv4 address 13.127.197.207   <a href="#">open address</a>	Private IPv4 addresses 172.31.32.217
IPv6 address -	Instance state Pending	Public IPv4 DNS ec2-13-127-197-207.ap-south-1.compute.amazonaws.com   <a href="#">open address</a>

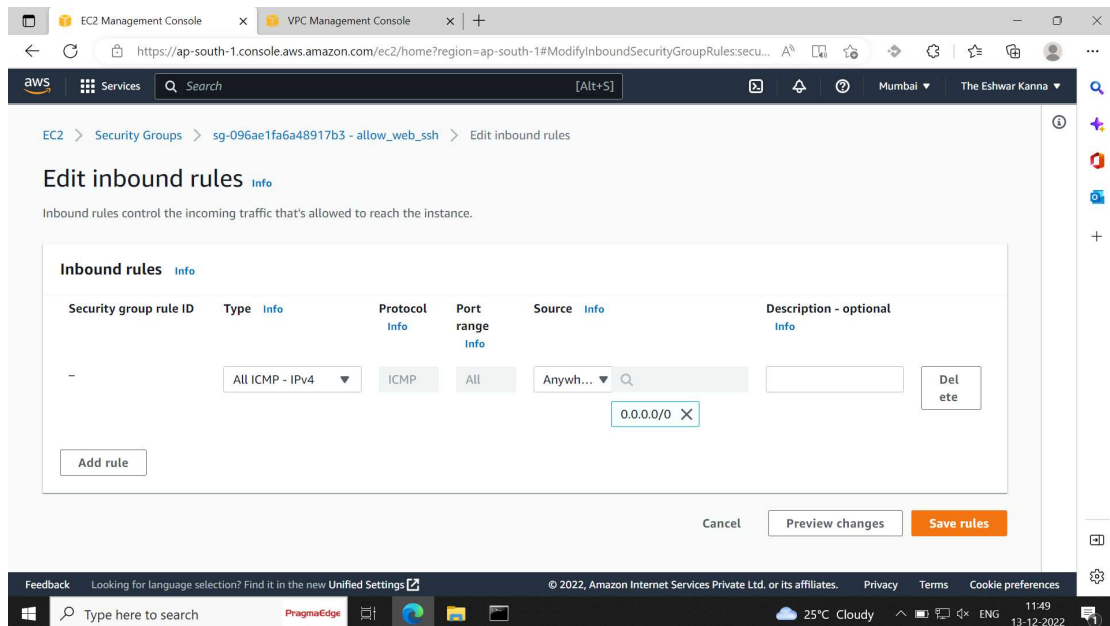
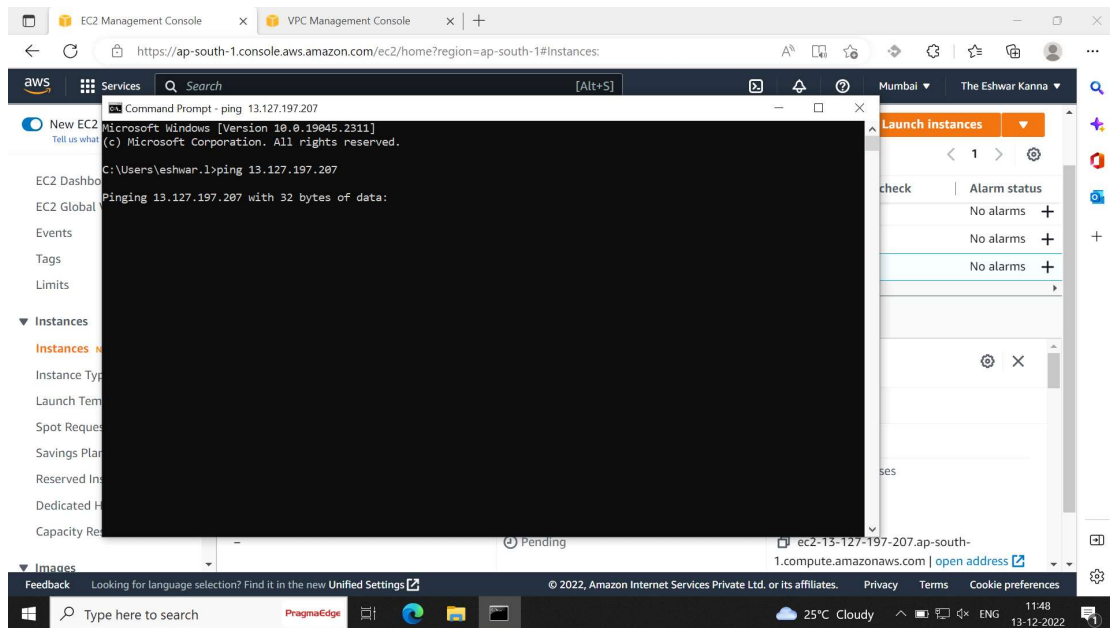
Waiting for dnxwo0iwhcg28.cloudfront.net...

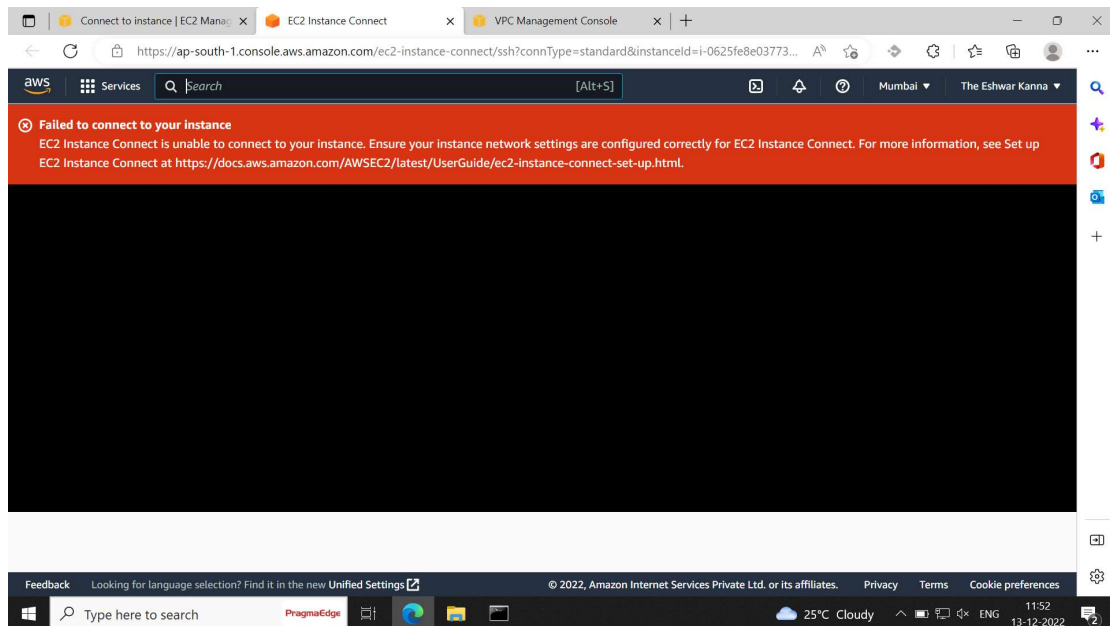
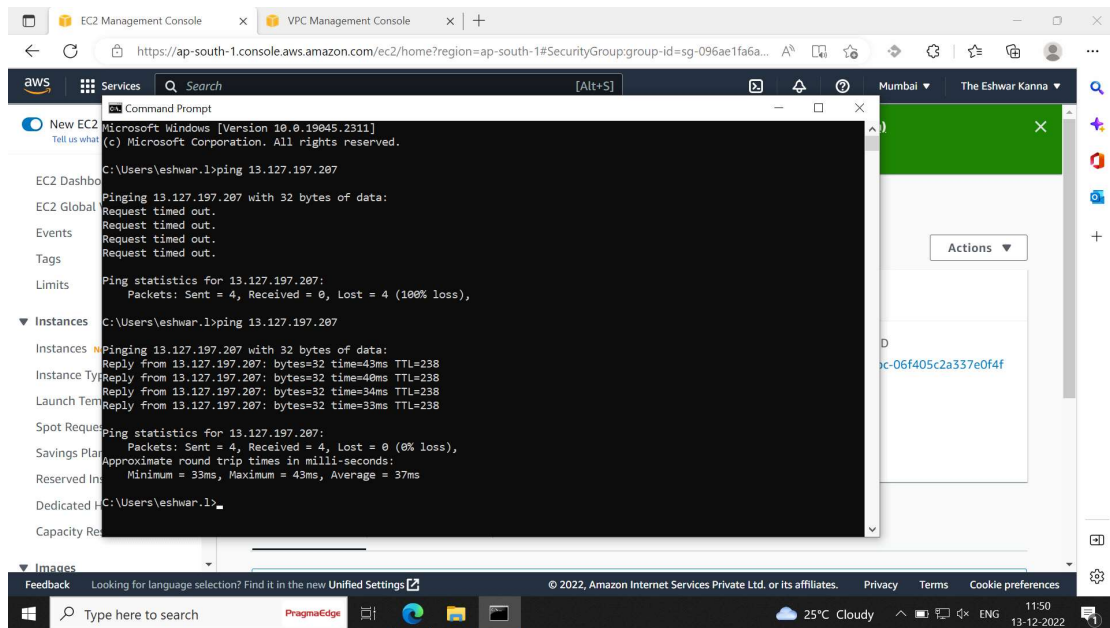
Settings

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Instances | EC2 Management Console

Successfully started i-0625fe8e037739f03

Instances (1/1) Info

Find instance by attribute or tag (case-sensitive)

Instance state = running X Clear filters

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
osforSG	i-0625fe8e037739f03	Running	t2.micro	Initializing	No alarms

Instance: i-0625fe8e037739f03 (osforSG)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0625fe8e037739f03 (osforSG)	13.126.218.69   open address	172.31.32.217
IPv6 address	Instance state	Public IPv4 DNS
-	Running	ec2-13-126-218-69.ap-south-1.compute.amazonaws.com   open address

EC2 Management Console

EC2 > Security Groups > sg-096ae1fa6a48917b3 - allow\_web\_ssh > Edit outbound rules

### Edit outbound rules Info

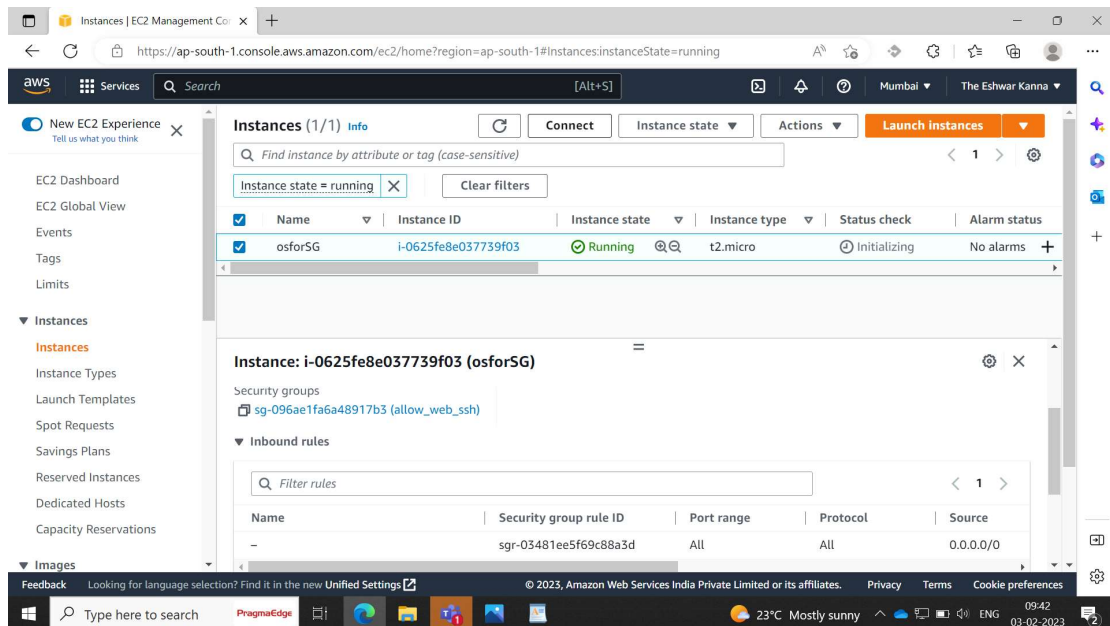
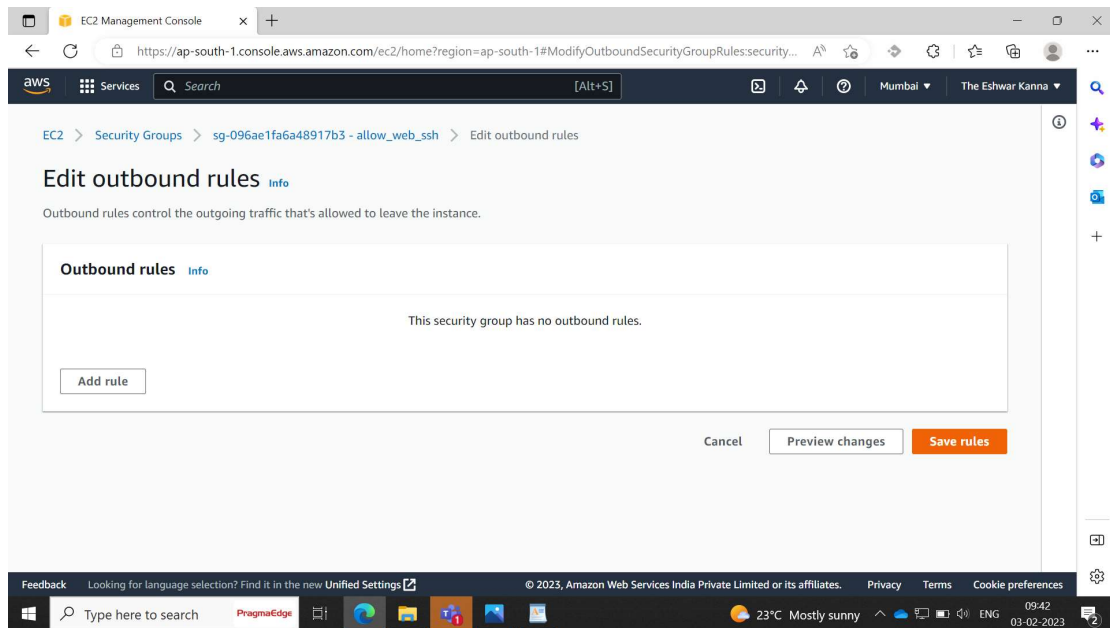
Outbound rules control the outgoing traffic that's allowed to leave the instance.

Outbound rules Info

Security group rule ID	Type	Protocol	Port range	Destination	Description - optional
sgf-0b91db5a4403c27f9	All traffic	All	All	Custom 0.0.0.0/0	

Add rule

Cancel Preview changes Save rules







Connect to instance | EC2 Manager | EC2 Instance Connect

https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0625fe8e03773...

aws Services Search [Alt+S] Mumbai The Eshwar Kanna

Last login: Thu Dec 22 15:16:54 2022 from ec2-13-233-177-4.ap-south-1.compute.amazonaws.com

Select Command Prompt

```

Microsoft Windows [Version 10.0.19045.2486]
(c) Microsoft Corporation. All rights reserved.

C:\Users\eshwar.1>ping 13.126.218.69

https://aws.ama:
33 package(s) nPing 13.126.218.69 with 32 bytes of data:
Run "sudo yum upReply from 13.126.218.69: bytes=32 time=146ms TTL=238
(ec2-user@ip-17Reply from 13.126.218.69: bytes=32 time=46ms TTL=238
Reply from 13.126.218.69: bytes=32 time=52ms TTL=238
Reply from 13.126.218.69: bytes=32 time=107ms TTL=238

Ping statistics for 13.126.218.69:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 46ms, Maximum = 148ms, Average = 42ms

C:\Users\eshwar.1> Because of stateful condition it connects and ping even if outbound has no rules
  
```

i-0625fe8e03

PublicIPs: 13.126.

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Network ACLs | VPC Manager | EC2 Instance Connect

https://ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#acIs:

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VPC dashboard X

EC2 Global View New

Filter by VPC: Select a 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

Network ACLs (3) Info

Filter network ACLs

Actions Create network ACL

<input type="checkbox"/>	Name	Network ACL ID	Associated with	Default	VPC
<input type="checkbox"/>	-	acl-06969a219c22c73ca	4 Subnets	Yes	vpc-
<input type="checkbox"/>	-	acl-060ac358dc5dd4f84	2 Subnets	Yes	vpc-
<input type="checkbox"/>	-	acl-0735593f5751e91ca	3 Subnets	Yes	vpc-

Select a network ACL

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Browser tabs: VPC Management Console, EC2 Instance Connect

URL: <https://ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#CreateNetworkAcl>

### Create network ACL Info

A network ACL is an optional layer of security that acts as a firewall for controlling traffic in and out of a subnet.

**Network ACL settings**

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

**VPC**  
VPC to use for this network ACL.

**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**

You can add 49 more tags.

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Browser tabs: Network ACLs | VPC Management, EC2 Instance Connect

URL: <https://ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#acls>

**You successfully created acl-020fb325737a60427 / mynaclforblock.**

**Network ACLs (1/4) Info**

	Name	Network ACL ID	Associated with	Default	
<input type="checkbox"/>	-	acl-06969a219c22c73ca	4 Subnets	Yes	
<input checked="" type="checkbox"/>	mynaclforblock	acl-020fb325737a60427	-	No	
<input type="checkbox"/>	-	acl-060ac358dc5dd4f84	2 Subnets	Yes	

**acl-020fb325737a60427 / mynaclforblock**

**Details** | Inbound rules | Outbound rules | **Subnet associations** | Tags

**Details**

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VPC Management Console x EC2 Instance Connect x +

https://ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#EditNetworkAclSubnetAssociations:networkAc...

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VPC > Network ACLs > acl-020fb325737a60427 / mynaclforblock > Edit subnet associations

### Edit subnet associations Info

Change which subnets are associated with this network ACL.

Available subnets (1/4)

Filter subnet associations

	Name	Subnet ID	Associated with	Availability Zone	IPv4 CIDR	IPv6 C
<input type="checkbox"/>	private-sub-1b	subnet-0a29b79dc90752fa6	acl-06969a219c22c73ca	ap-south-1b	192.168.4.0/24	-
<input checked="" type="checkbox"/>	private-sub-1a	subnet-06e9cbc5750a3b5f0	acl-06969a219c22c73ca	ap-south-1a	192.168.3.0/24	-
<input type="checkbox"/>	public-sub-1b	subnet-0905fd46e43290b9f	acl-06969a219c22c73ca	ap-south-1b	192.168.2.0/24	-
<input type="checkbox"/>	public-sub-1a	subnet-0a9d953e9dff7cf0f	acl-06969a219c22c73ca	ap-south-1a	192.168.1.0/24	-

Selected subnets

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Launch an instance | EC2 Manag x EC2 Instance Connect x Subnets | VPC Management Con x +

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

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### Name and tags Info

Name

nacserver [Add additional tags](#)

### ▼ Application and OS Images (Amazon Machine Image) Info

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

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Amazon Linux

macOS

Ubuntu

Windows

Red Hat

SUSE

aws

Mac

ubuntu

Microsoft

Red Hat

SL

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Launch an instance | EC2 Management Console | EC2 Instance Connect | Subnets | VPC Management Console

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

Services Search [Alt+S]

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### Network settings

**VPC - required** [Info](#)

vpc-09de6be94b00bafaf (mylwpvc)  
192.168.0.0/16

**Subnet** [Info](#)

subnet-06e9cbc5750a3b5f0 private-sub-1a  
VPC: vpc-09de6be94b00bafaf Owner: 789576624500 Availability Zone: ap-south-1a  
IP addresses available: 251 CIDR: 192.168.3.0/24 [Create new subnet](#)

**Auto-assign public IP** [Info](#)

Enable

**Firewall (security groups)** [Info](#)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☒ Create security group ☐ Select existing security group

**Security group name - required**

launch-wizard-17

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and \_-:/[]+=&:[]\*

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Instances | EC2 Management Console | EC2 Instance Connect | Network ACLs | VPC Management Console

https://ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#acIs:networkACLId=acl-020fb325737a60427

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### Network ACLs (1/1)

[Filter network ACLs](#)

Network ACL ID: acl-020fb325737a60427 [Clear filters](#)

<input checked="" type="checkbox"/>	Name	Network ACL ID	Associated with	Default	VPC
<input checked="" type="checkbox"/>	mynaclforblock	acl-020fb325737a60427	subnet-06e9cbc5750a3b5f0 / private-sub-1a	No	vpc-

**Inbound rules (1)** [Edit inbound rules](#)

[Filter inbound rules](#)

Rule number	Type	Protocol	Port range	Source	Allow/Deny
*	All traffic	All	All	0.0.0.0/0	Deny

https://ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#settings

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Connect to instance | EC2 Manag... x EC2 Instance Connect x Network ACLs | VPC Managemen... x

https://ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#acIs:networkACLId=acl-020fb325737a60427

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VPC dashboard x  
EC2 Global View New  
Filter by VPC:  
Select a 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

### Network ACLs (1/1) Info

Filter network ACLs

Network ACL ID: acl-020fb325737a60427 Clear filters

<input checked="" type="checkbox"/>	Name	Network ACL ID	Associated with	Default	VPC
<input checked="" type="checkbox"/>	mynaclforblock	acl-020fb325737a60427	subnet-06e9cbc5750a3b5f0 / private-sub-1a	No	vpc-

### Outbound rules (1)

Edit outbound rules

Filter outbound rules

Rule number	Type	Protocol	Port range	Destination	Allow/Deny
*	All traffic	All	All	0.0.0.0/0	Deny

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