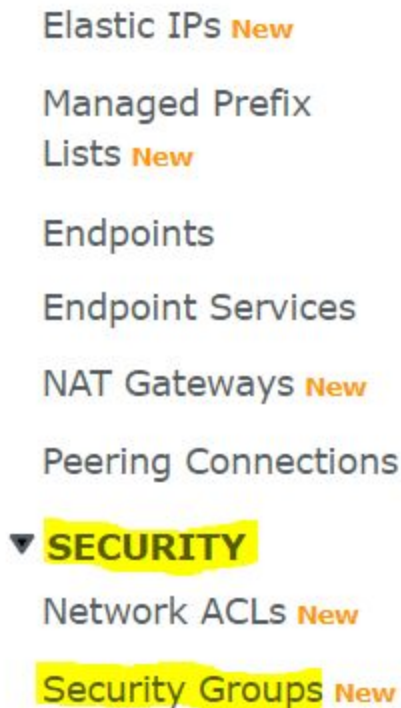


## Creating a Security Group

A **security group** is a virtual firewall for your virtual machines. It contains a set of rules to filter the incoming and outgoing traffic for an instance or machine. Security groups act at an instance level.

This document describes how to create a security group.

1. To create a new security group, on the left-hand panel, you need to scroll down to the **SECURITY** section and click on **Security Groups** as shown below.



2. This will take you to the security groups page. On this page, you will see some of the security groups are created by default for each VPC associated with your AWS account. To create a new group, click on the **Create security group** button on the top-right corner as shown below.

↺

Actions ▼

Create security group

<

1

>

⚙

VPC ID ▼	Description ▼	Owner
pc-5da27a20	launch-wizard-1 create...	360448222316
pc-5da27a20	launch-wizard-5 create...	360448222316
pc-5da27a20	launch-wizard-4 create...	360448222316
pc-05b8047bfaa5eed52	default VPC security gr...	360448222316
pc-5da27a20	launch-wizard-3 create...	360448222316

- You will be taken to a new page. On this page, you need to specify the details for the security group that you want to create. Under the **Basic details** section, you need to specify the name, description and the VPC for which you want to create this security group. In the name, you can enter any name of your choice or you can enter **UpgradWebServers**. In the description, you can write **Only for Web Servers**.

Basic details

Security group name [Info](#)

UpgradWebServers

Name cannot be edited after creation.

Description [Info](#)

Only for Web Servers

- Next, you need to select the VPC that you want to attach this security group. Click on the dropdown and select the **upgrad-vpc** or the VPC that you created earlier.

Description [Info](#)

Only for Web Servers

VPC [Info](#)

vpc-5da27a20

Description [Info](#)

Only for Web Servers

VPC [Info](#)

vpc-5da27a20

Q |

vpc-5da27a20

172.31.0.0/16

(default)

vpc-05b8047bfaa5eed52 (upgrad-vpc)

10.0.0.0/24

- So the **Basic details** section will look as shown below.

**Basic details**

Security group name [Info](#)  
  
Name cannot be edited after creation.

Description [Info](#)

VPC [Info](#)

6. Next, you need to specify the **Inbound rules** for this security group. To add a new rule, click on the **Add rule** button.

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

This security group has no inbound rules.

7. In the type section, click on the dropdown and select **HTTP**.

Inbound rules [Info](#)

Type [Info](#)

Custom TCP ▲

Q |

All UDP ▲

All ICMP - IPv4

All ICMP - IPv6

All traffic

SSH

SMTP

DNS (UDP)

DNS (TCP)

HTTP

POP3

IMAP

Protoc

TCP

Protoc

All

8. In the **Source** section select **My IP** as shown below.

Inbound rules [Info](#)

Type [Info](#)

Protocol [Info](#)

Port range [Info](#)

Source [Info](#)

Description - opt

HTTP ▼

TCP

80

Custom ▲

Custom

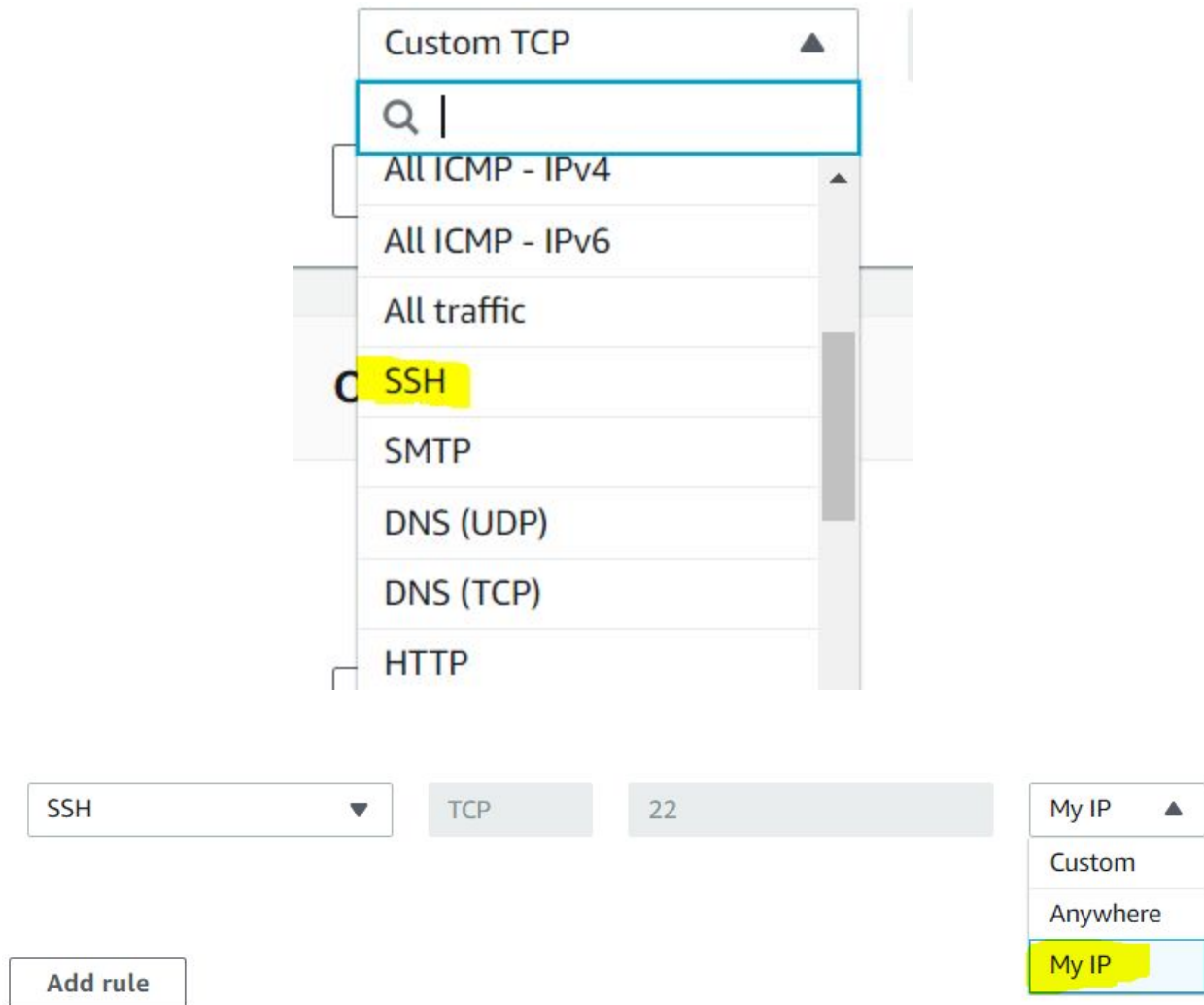
Anywhere

My IP

Q

Add rule

9. Similarly, click on the **Add rule** button and add one more rule. In the **Type** section select **SSH** and in the **Source** section select **My IP**.



Custom TCP ▲

Q |

All ICMP - IPv4 ▲

All ICMP - IPv6

All traffic

SSH

SMTP

DNS (UDP)

DNS (TCP)

HTTP

SSH ▼

TCP

22

My IP ▲

Custom

Anywhere

My IP

Add rule

10. Two-port numbers will be opened and they can only be accessed from your computer's IP address. The final setting for inbound rules will be something as shown below.

Type	Info	Protocol	Info	Port range	Info	Source	Info
HTTP		TCP		80		My IP	
SSH		TCP		22		My IP	

Add rule

11. You do not need to change anything in the **Outbound rules** section. Finally, to create this security group click on the **Create security group** button from the bottom right corner of the screen.

**Outbound rules** Info

This security group has no outbound rules.

Add rule

**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 tag

Cancel **Create security group**

12. A new page will appear which says that the security group creation is successful and it will have all the details that you specified earlier.

Security group (sg-0b6126887e3c1aa41 | UpgradWebServers) was created successfully  
 ▶ Details

VPC > Security Groups > sg-0b6126887e3c1aa41 - UpgradWebServers

sg-0b6126887e3c1aa41 - UpgradWebServers Actions ▼

**Details**

Security group name UpgradWebServers	Security group ID sg-0b6126887e3c1aa41	Description Only for Web Servers	VPC ID vpc-05b8047bfaa5eed52
Owner 360448222316	Inbound rules count 2 Permission entries	Outbound rules count 0 Permission entries	

**Inbound rules** Edit inbound rules

Type	Protocol	Port range	Source	Description - optional
HTTP	TCP	80	106.207.9.161/32	-
SSH	TCP	22	106.207.9.161/32	-

13. To view your newly created security group click on the **Security Groups** option from the left-hand panel as shown below.

- Elastic IPs **New**
- Managed Prefix Lists **New**
- Endpoints
- Endpoint Services
- NAT Gateways **New**
- Peering Connections
- ▼ **SECURITY**
- Network ACLs **New**
- Security Groups** **New**



14. On this page, you would see that the security group gets created with the name and description that you specified earlier.

<input type="text" value="Filter security groups"/>					
<input type="checkbox"/>	Name ▾	Security group ID ▾	Security group name ▾	VPC ID ▾	Description ▾
<input type="checkbox"/>	-	<a href="#">sg-0aa73b42db6c984ae</a>	default	<a href="#">vpc-05b8047bfaa5eed52</a>	default VPC security gr...
<input type="checkbox"/>	-	<a href="#">sg-0b6126887e3c1aa41</a>	UpgradWebServers	<a href="#">vpc-05b8047bfaa5eed52</a>	Only for Web Servers
<input type="checkbox"/>	-	<a href="#">sg-0e0fd58f2447350eb</a>	launch-wizard-3	<a href="#">vpc-5da27a20</a>	launch-wizard-3 create...
<input type="checkbox"/>	-	<a href="#">sg-0e642b78f1d82dda0</a>	launch-wizard-2	<a href="#">vpc-5da27a20</a>	launch-wizard-2 create...

With this, you have successfully created a new security group.