

## Lesson 07 Demo 03

### Creating and Changing AWS Security Groups

**Objective:** To configure AWS security groups to control inbound and outbound traffic to and from AWS resources

**Tools required:** AWS Management Console

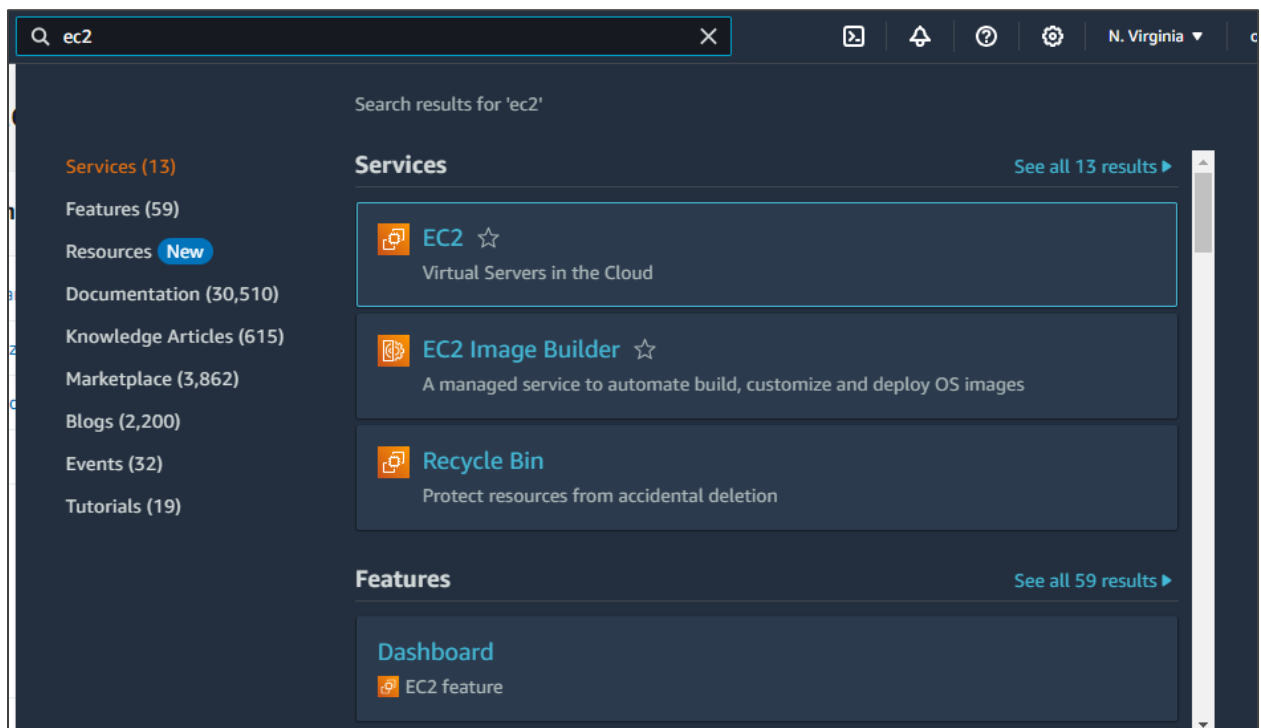
**Prerequisites:** An EC2 instance should be created

Steps to be followed:

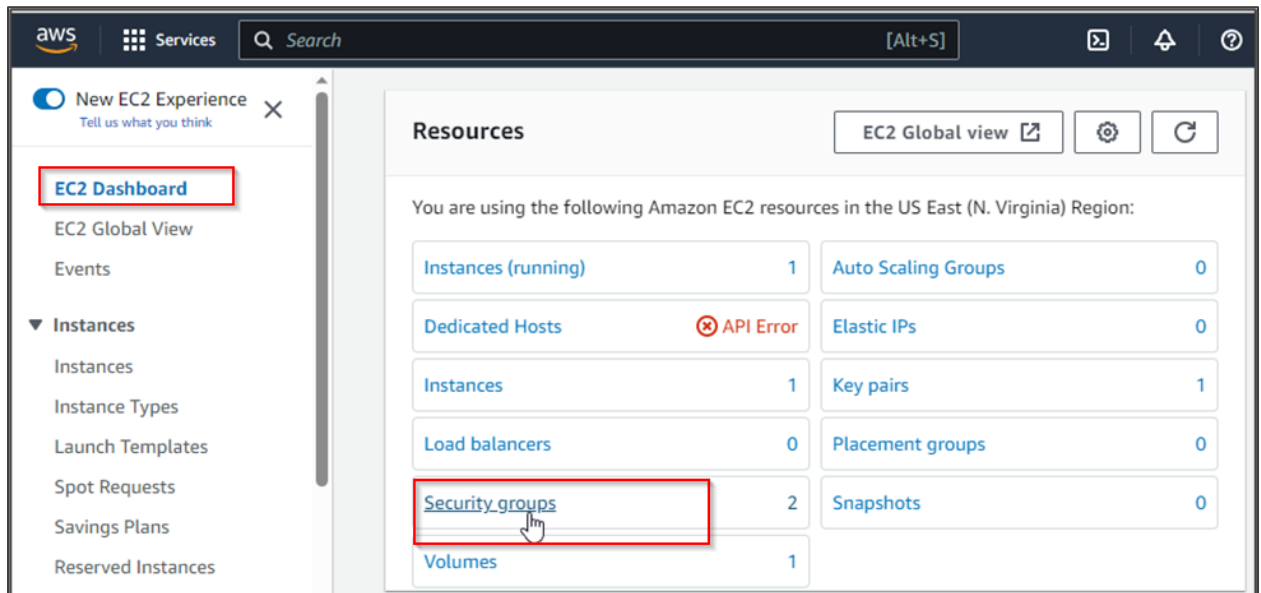
1. Create the security group
2. Change the security group

#### Step 1: Create the security group

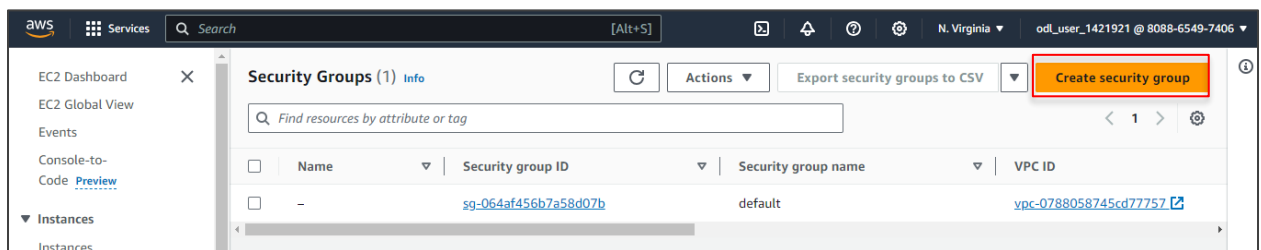
1.1 Navigate to the AWS portal, search for and select **EC2** from the services



## 1.2 In the EC2 Dashboard, select Security groups



## 1.3 Click on Create security group



#### 1.4 Provide a name and description for the security group

aws Services Search [Alt+S] N. Virginia odl\_user\_1058469 @ 5549-

EC2 > Security Groups > Create security group

### Create security group [Info](#)

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](#)  
  
Name cannot be edited after creation.

Description [Info](#)

VPC [Info](#)

#### 1.5 Scroll down to the **Inbound rules** section, click on **Add rule**

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

This security group has no inbound rules.

#### 1.6 Choose **All traffic** from the drop-down menu as **Type**

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

Type <a href="#">Info</a>	Protocol <a href="#">Info</a>	Port range <a href="#">Info</a>	Source <a href="#">Info</a>	Description - optional <a href="#">Info</a>
<input type="text" value="All traffic"/>	<input type="text" value="All"/>	<input type="text" value="All"/>	<input type="text" value="Any..."/> <input type="text" value="0.0.0.0/0"/>	<input type="text"/>

## 1.7 Click on **Create security group**

**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](#)

✔ Security group (sg-049c3a58224e5162f | DemoSimplilearnGroupName) was created successfully

► Details

[EC2](#) > [Security Groups](#) > sg-049c3a58224e5162f - DemoSimplilearnGroupName

sg-049c3a58224e5162f - DemoSimplilearnGroupName [Actions](#)

**Details**

Security group name DemoSimplilearnGroupName	Security group ID sg-049c3a58224e5162f	Description Security group demo	VPC ID vpc-0788058745cd77757
Owner 808865497406	Inbound rules count 1 Permission entry	Outbound rules count 1 Permission entry	

The security group has been successfully created.

## Step 2: Change the security group

### 2.1 Navigate to the **EC2 Dashboard** and click on **Instances (running)**

aws Services Search [Alt+S] N. Virginia odl\_user\_1421921 @ 8088-6549-7406

**EC2 Dashboard**

EC2 Global View Events Console-to-Code [Preview](#)

**Resources** [EC2 Global View](#) [Settings](#) [Refresh](#)

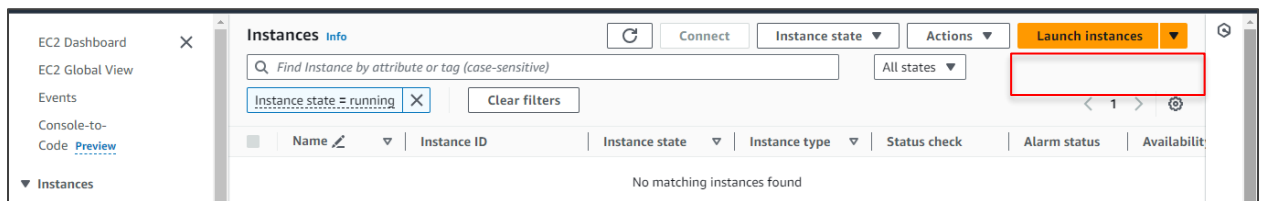
You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:

[Instances \(running\)](#) 0 [Auto Scaling Groups](#) 0

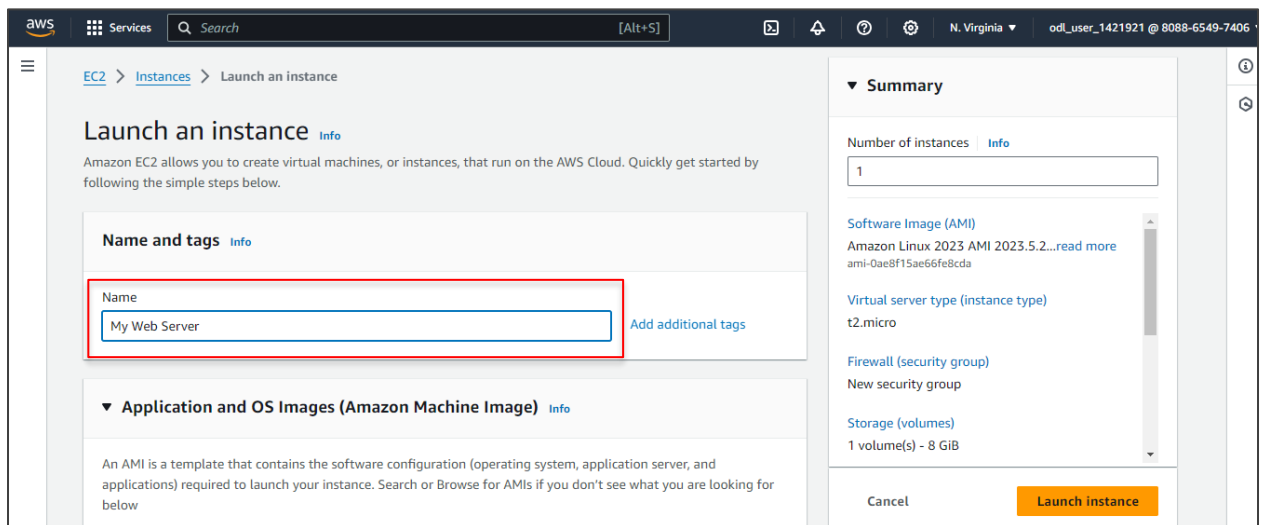
**Account attributes** [Refresh](#)

[Default VPC](#)  
vpc-0788058745cd77757

## 2.2 Click on **Launch instances**



## 2.3 Provide a **Name** to the instance



## 2.4 Scroll down to **Network Settings** and click on **Select existing security group**

▼ Network settings [Info](#)

Edit

Network [Info](#)

vpc-0788058745cd77757

Subnet [Info](#)

No preference (Default subnet in any availability zone)

Auto-assign public IP [Info](#)

Enable

Additional charges apply when outside of free tier allowance

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

Common security groups [Info](#)

Select security groups ▼

Compare security group rules

Security groups that you add or remove here will be added to or removed from all your network interfaces.

## 2.5 Select the created security group

No preference (Default subnet in any availability zone)

Auto-assign public IP [Info](#)

Enable

Additional charges apply when outside of free tier allowance

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

Common security groups [Info](#)

Select security groups ▼

DemoSimplilearnGroupName sg-049c3a58224e5162f ✕

VPC: vpc-0788058745cd77757

Compare security group rules

Security groups that you add or remove here will be added to or removed from all your network interfaces.

## 2.6 Click on **Launch instance**

**Launch an instance** Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

**Name and tags** Info

Name  
My Web Server [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

**▼ Summary**

Number of instances Info  
1

Software Image (AMI)  
Amazon Linux 2023 AMI 2023.5.2...[read more](#)  
ami-0ae8f15ae66fe8cda

Virtual server type (instance type)  
t2.micro

Firewall (security group)  
New security group

Storage (volumes)  
1 volume(s) - 8 GiB

[Cancel](#) [Launch instance](#)

**Success**  
Successfully initiated launch of instance (i-09e5022c558a8b88b)

► 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 >

The security group has been configured successfully.

By following these steps, you have successfully configured AWS security groups to control inbound and outbound traffic to and from AWS resources.