**Lesson 3 Demo 8**

**Create a Routing Requests in ALB (Application Load Balancer)**

**Objectives:** To set up the routing requests in application load balancer

**Tools required:** Amazon Workspace

**Prerequisites:** Amazon account

**Steps to be followed:**

1. Setting up the prerequisites for EC2
2. Creating a routing request in ALB

**Step** **1:** **Setting up the prerequisites for configuring EC2**

1. Navigate to the **AWS Console Home** and enter **EC2** in the search tab. Graphical user interface, text

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Graphical user interface, text, application

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1. On clicking **EC2,** we are directed to this page where we can see components such as **Resources, Launch Instance, Service health, Account attributes,** and **Explore AWS.** Graphical user interface, text, application, email

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2. On the left, **Load Balancers** and click **Create Load Balancer.**Graphical user interface, text, email

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3. On clicking **Load balancers**, the user will have three options **Application Load Balancer**, **Network Load Balancer**, and **Gateway Load Balancer.** Graphical user interface, application

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4. Under the **Application Load Balancer**, click on **Create.**

Diagram

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1. On clicking the **Load balancers**, this page appears. To create an **Application Load** **Balancer**, we need to fill the detail in the Load balancer name and choose **Scheme**.  
   Graphical user interface, text, application, email

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2. On the **Network mapping** page, select all the **Mappings** option and fill up the details.  
    Graphical user interface, text, application, email

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3. On the **Security groups** page, select the **default security group**.

A screenshot of a computer

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1. For **Protocol**, **Port** and **Default action**, select values **HTTP,80** and **Demo-1(respective target group).**  
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1.10 Then the user will click on **Create load balancer** option.  
  
Graphical user interface, text, application

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1.11 The **Application Load balancer** is successfully created.Graphical user interface, text, application

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**Step 2: Routing Requests in ALB (Application Load Balancer)**

1. On the **New EC2 Experience** dashboard, we can see the components such as **Create Load Balancer, Action,** etc.

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1. On clicking the **Demo-1**, the details will be displayed on the **Load balancers**.  
   A screenshot of a computer

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2. Click on **Listeners** and select the **Listener ID**:Graphical user interface, text, application, email

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3. On clicking the **View/edit Rules**, the user will find this page.  
     
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4. Next, click on **+** to add the details.  
   Graphical user interface, text, application

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5. Now click on **Insert Rule.**

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1. Click on **Add condition** and select **Source IP**.

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1. Enter the **Source IP address**:

* Open a duplicate tab and go to EC2 instances dashboard and select 1st instance (Webserver1)
* Under **Details** tab, scroll down and click on **VPC ID** to open it in new tab

Graphical user interface, text, application, email

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* Copy the IPv4 CIDR from the selected VPC

Graphical user interface, application

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* Paste it in the is section of Source IP in the previous tab

Graphical user interface, website

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1. Then click on **Add action** and select **Forward to**.

Graphical user interface, website

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2.10 Hence, select the **target group** and **click on Save**.

Graphical user interface

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* 1. New rule have been created successfully.

Graphical user interface

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