**Lesson 5 Demo 5**

**Create a Private and Public Subnet, Route Table, and NAT**

**Objectives:** To create a private and public subnet, route table, and NAT

**Tools required:** Amazon Workspaces

**Prerequisites:** Amazon account

**Steps to be followed:**

1. Setting up the prerequisites for public and private subnets
2. Creating a route table and NAT

**Step** **1:** **Setting up the prerequisites for public and private subnets**

1. Navigate to the **AWS Console home** and search **VPC**:

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1. Click on **Your VPCs** and go to **Create VPC**

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1. Under **Name tag**, enter the **VPC name** that has been created

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1. Enter the **IPv4 CIDR address 10.0.0.0/24** and scroll down the screen

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1. Click on **Create VPC**

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1. The **VPC** is successfully created**.**

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1. Next, go to **Actions** and click on **Edit DNS hostnames**

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1. Then, click on save the changes and **DNS hostname** will be enabled.

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1. The next step is to **Create internet gateway** and VPC should be attached to the internet gateways.

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After creating Internet gateways, click on **Attach to VPC**

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Click on VPC, and Attach internet gateways.Graphical user interface, text, application, email, website

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* 1. Now, click on **Subnets**

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* 1. Click on **Subnets** and create public and private subnets

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* 1. Once the user clicks on **Subnets**, they will find this page. Now, click on **VPC ID** and select the one that has been created

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* 1. Next, write the **IPv4 CIDR** block and click on **Create subnet**

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The **Subnet** is created successfully.

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* 1. Now, create a private subnet just like the previous one but enter the **Ipv4 CIDR as 10.0.0.0/22** during VPC creation.Graphical user interface, application

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The **private subnet** is created successfully.

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Here are the details of **Private** and **Public Subnets**:

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**Step 2: Creating a Route table and NAT**

1. On clicking Route tables, the user will be able to create **route tables**

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1. Now, enter the **Name** and **VPC**

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1. Next, click on **Create route table**

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1. The **route table** is created successfully.

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1. Click on the **NAT gateway** to create NAT public subnet

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1. Click on **Create** **NAT gateway**

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1. Enter the subnet, select whether it is a public or private connectivity type, and click on **Allocate Elastic IP**

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1. The **NAT gateway** is created successfully.

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