**Lesson 3 Demo 5**

**Launch Web Server Instances**

**Objectives:** To set up the VPC, internet gate, route table and subnet and to Launch Webserver Instances

**Tools require:** AWS workspace

**Prerequisites:** AWS account

**Steps to be followed:**

* 1. Creating a VPC, internet gateway, subnet, and route table
  2. Creating an EC2 webserver instance

**Step** **1:** **Setting up the prerequisites for configuring a VPC**

1. In the console navigation pane, search for and choose **VPC**
2. In the **VPC** page, click on **Create VPC** and enter a name
3. Click on **Create VPC**
4. Click on **Subnets** on the left side of the screen, and click on **Create subnet**
5. Select the VPC which was created in a previous step, and enter the name under **Subnet name**

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1. Enter an **IPv4 CIDR block** for the subnet

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1. Create an internet gateway

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1. Select the created internet gateway, click on **Actions,** and select **Attach to VPC**

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1. Click on **Route tables** in left side of the menu, click on **Create route table,** enter the name for the route table, and select the VPC created in a previous stepGraphical user interface, application

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2. Click on **Create route table**:
3. After the creation of route table, select the route table, click on **Actions** and select **Edit subnet associations**:

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1. Select the subnet, click on **Save associations:**

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**Step** **2:** **Creating an EC2 webserver instance**

1. In the console navigation pane, choose **EC2:**

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1. In the **EC2** page, click on **Create Launch instance:**

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1. Enter the **name** for the instance:

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1. In the **Application and OS image** section, choose the version **Amazon Linux:**

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1. For the **Instance type**, choose:

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1. Click on **Create new key pair**A screenshot of a computer

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2. specify key pair name and, choose the type as **RSA** and, for **private key format** choose .pem format and then click on **create key pair**:

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1. In Network settings, Select the VPC and Subnet and enable **Auto assign public IP:**

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1. Click on **Add Security group rule**:

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1. Click on **Add inbound rule**, and add **HTTP** and **HTTPS** inbound rules:

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1. Click on **Advanced details**:

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1. Add the following code in **User data:**

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1. The web instance is created successfully:
2. Select the instance, copy the **Public IPv4 address**:

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1. Open a new tab in the browser, paste the Public IPv4 address and press enter:

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