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**عمارة 4 - شارع محمد توفيق دياب - عباس العقاد - مدينة نصر - الدورال 1**

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## *DevOps Engineer Diploma*

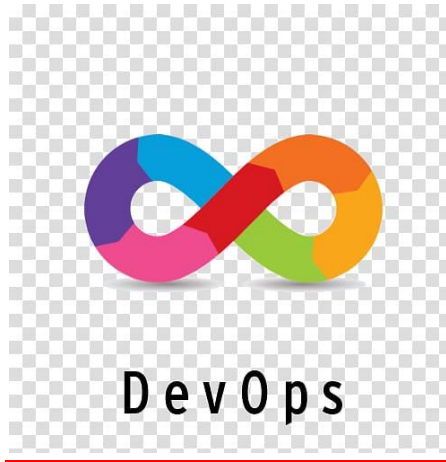


DevOps

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## **DevOps Engineer Diploma**



### **AWS Labs** **Lab 08**

## **AWS VPC and EC2 Instance Setup with Apache Web Server**

### **### Lab Objectives**

- Creating a Virtual Private Cloud (VPC)
- Configuring Subnets and Internet Gateway
- Launching EC2 Instances in a VPC
- Setting Up Security Groups for EC2 Instances
- Installing and Configuring Apache Web Server
- Accessing a Simple Web Page via HTTP

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### Step 1 — Create a VPC

- **CIDR Block:** 10.0.0.0/16
  - **Create a Public Subnet:** 10.0.1.0/24
  - **Create and Attach an Internet Gateway** to the VPC
  - **Create a Route Table**
    - Add a route to 0.0.0.0/0 via the Internet Gateway
  - **Associate the Public Subnet** with this Route Table
- 

### Step 2 — Launch an EC2 Instance

- **Instance type:** t2.micro (Free tier eligible)
  - **AMI:** Amazon Linux 2
  - **Network:** Select the newly created VPC
  - **Subnet:** Public Subnet
  - **Enable Auto-assign Public IP**
  - **Create a Security Group** named web-sg:
    - Allow **SSH** (Port 22) from **My IP**
    - Allow **HTTP** (Port 80) from **Anywhere** (0.0.0.0/0)
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### Step 3 — Connect to the Instance

- Use **SSH** from your terminal to connect to the EC2 instance.
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### Step 4 — Install Apache Web Server

- Install **Apache** on the EC2 instance.
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### Step 5 — Create a Simple Web Page

- Create a basic **HTML web page** for your Apache server.
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### Step 6 — Access the Website

- Open your browser and visit the website using the **Public IP** of your EC2 instance.

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