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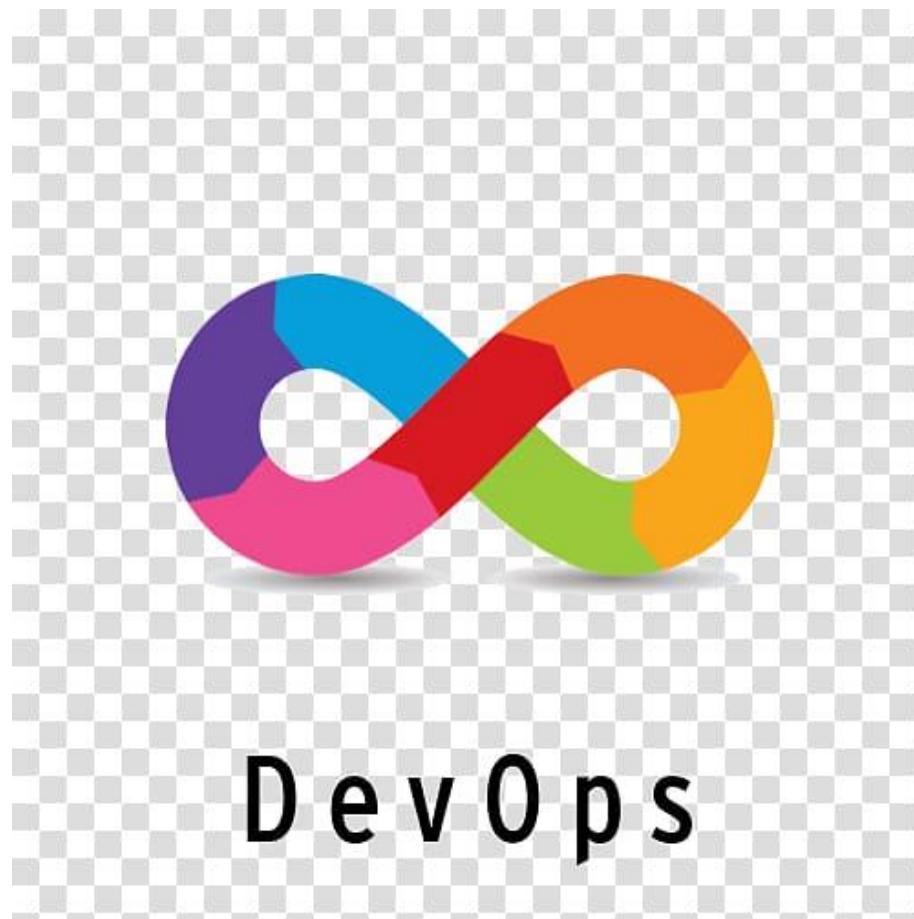
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**عمارة ٤ - شارع محمد توفيق ديباب - عباس العقاد - مدينة نصر - الدورال ١**

## ***DevOps Engineer Diploma***



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### **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

### **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)

### **Step 3 — Connect to the Instance**

- Use **SSH** from your terminal to connect to the EC2 instance.

### **Step 4 — Install Apache Web Server**

- Install **Apache** on the EC2 instance.

### **Step 5 — Create a Simple Web Page**

- Create a basic **HTML web page** for your Apache server.

### **Step 6 — Access the Website**

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

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