**Deploy a Website on the EC2 instance console**

### **Deploying a Website on an EC2 Instance via Console**

1. **Launch EC2 Instance**:
   * In the **EC2 Dashboard**, create a new instance, specifying a name and choosing **Ubuntu** as the operating system.
   * Select your **Key Pair** and under **Network Settings**, add a new security rule:
     + Keep the default SSH rule (TCP, port 22).
     + Click **Add Security Group Rule**, choose **HTTP** to allow web traffic, and set the source to **0.0.0.0/0**.
   * Click **Launch**.
2. **Connect to Your Instance via SSH**:

Connect to the instance using the following SSH command:  
bash  
Copy code  
ssh -i "newkeypair.pem" ubuntu@ec2-34-238-240-232.compute-1.amazonaws.com

1. **Install Apache Web Server**:

Run the following commands:  
bash  
Copy code  
sudo apt-get update

sudo apt install apache2

Verify Apache is running:  
bash  
Copy code  
sudo systemctl status apache2

If Apache is not running, start it:  
bash  
Copy code  
sudo systemctl start apache2

To stop the server:  
bash  
Copy code  
sudo systemctl stop apache2

1. **Update the Web Page**:

Go to the web server’s default HTML path:  
bash  
Copy code  
cd /var/www/html

* + Update or create an index.html file here.

1. **Verify Your Website**:
   * Open your browser and go to:
     + http://{yourPublicIp}/
     + http://{yourPublicIp}/var/www/html/index.html

### **Deploying a Website on EC2 Using CLI**

1. **Launch EC2 Instance**:

Run the following command to create an instance via CLI:  
bash  
Copy code  
aws ec2 run-instances --image-id ami-0149b2da6ceec4bb0 --count 1 --instance-type t2.micro --key-name newkeypair --security-groups default

1. **Configure Security Group**:

Add SSH and HTTP rules with these commands:  
bash  
Copy code  
aws ec2 authorize-security-group-ingress --group-id sg-03a50b08d049283de --ip-permissions IpProtocol=tcp,FromPort=22,ToPort=22,IpRanges="[{CidrIp=0.0.0.0/0}]"

aws ec2 authorize-security-group-ingress --group-id sg-03a50b08d049283de --ip-permissions IpProtocol=tcp,FromPort=80,ToPort=80,IpRanges="[{CidrIp=0.0.0.0/0}]"

1. **Connect via SSH**:

Use SSH to connect:  
bash  
Copy code  
ssh -i "newkeypair.pem" ubuntu@ec2-34-238-240-232.compute-1.amazonaws.com

1. **Install and Configure Apache**:
   * Follow the instructions from **Steps 3 and 4** above to set up and test the Apache server.

This completes the website deployment on your EC2 instance using either the Console or CLI.