**Backend Deployment to AWS**

**Step 1: Launch a Windows or Linux Server Amazon EC2 instance.**

\* Sign in to the AWS Management Console and open the Amazon EC2 console at

<https://console.aws.amazon.com/ec2/>

\* Choose EC2 Dashboard, and then choose Launch instance.

\* Choose the Amazon Machine Image (AMI) as per your requirement.

\* Choose an instance type

\* On the **Configure Instance Details** page, (Network, Subnet, Auto-assign Public IP)

\* Choose **Next: Add Storage**.

\* On the **Add Storage** page, keep the default values and choose **Next: Add Tags**.

\* On the **Add Tags** page, choose **Add Tag**, then enter Name for **Key** and enter like web-server-name for **Value**.

\* Choose **Next: Configure Security Group**.

\* Choose **Review and Launch**.

\* On the **Select an existing key pair or create a new key pair** page, choose **Create a new key pair** and set **Key pair name** to web-server-key-pair. Choose **Download Key Pair**, and then save the key pair file on your local machine. You use this key pair file to connect to your EC2 instance.

**Step 2:** **To connect to your EC2 instance and install the Apache web server & node as per your requirement**

**For Apache & node**

* <https://www.tecmint.com/install-nodejs-npm-in-centos-ubuntu/>
* <https://www.digitalocean.com/community/tutorials/how-to-install-node-js-on-ubuntu-20-04>
* <https://www.digitalocean.com/community/tutorials/how-to-install-the-apache-web-server-on-centos-7>

**Note:-** If you not enable **ASG** (Auto scaling Group ) then you should always associate your instance with **EIP (**Elastic Internet Protocol **)**

* An Elastic IP address is static; it does not change over time.
* To use an Elastic IP address, you first allocate one to your account, and then associate it with your instance or a network interface

**Step 3: Create a Hosted Zone for our domain**

To create a hosted zone:

1. Open the Amazon Route 53 console at <https://console.aws.amazon.com/route53/>
2. Click **Hosted Zones** in the navigation pane.
3. Click **Create Hosted Zone**.
4. In **Domain Name**, enter domain name.
5. Click **Create**.

Now, we can see new NS records from aws, and we want to copy it over to our current DNS provider's records.

* Now go to your domain name provider platform access your domain and change name server .
* Again come back on aws route 53
* Create require records specially **A** Record

**Step 4: Upload your code on server via FTP**

* Connect your server using .pem file
* Before uploading data on server Give permission to user particular location(directory) for current users

**Step 5 : Install npm all packages which are used in our project**

**Ex -** npm i express

npm i <package name>

npm start **or** node index.js **or** nodemon index.js