

Module 4: Amazon EC2

Demo Document 1

edureka!


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Host your website inside your EC2 instance

Step 1: Connect to your EC2 instance from SSH terminal

- Launch a ubuntu instance in your console
- For Linux, Unix and Mac users- .pem key pair can be used directly
- For Window users -Convert .pem file to ppk file using puttygen software
- The different user names for the user are



AMI Type	User Name
Linux AMI	ec2-user
Centos	centos
Debian	admin or root
Feroda	ec2-user or feroda
RHEL	ec2-user or root
SUSE	ec2-user or root
Ubuntu	ubuntu or root
Custom AMI	Check with AMI provider

- The default user name for a ubuntu machine is “ubuntu”
- Connect to your EC2 instance through command prompt by typing

```
ssh -i <.pem file Absolute path> username@public-IP
```

```
ssh -i C:/Users/Edureka/Downloads/Key.pem ec2-user@13.1.53.42
```

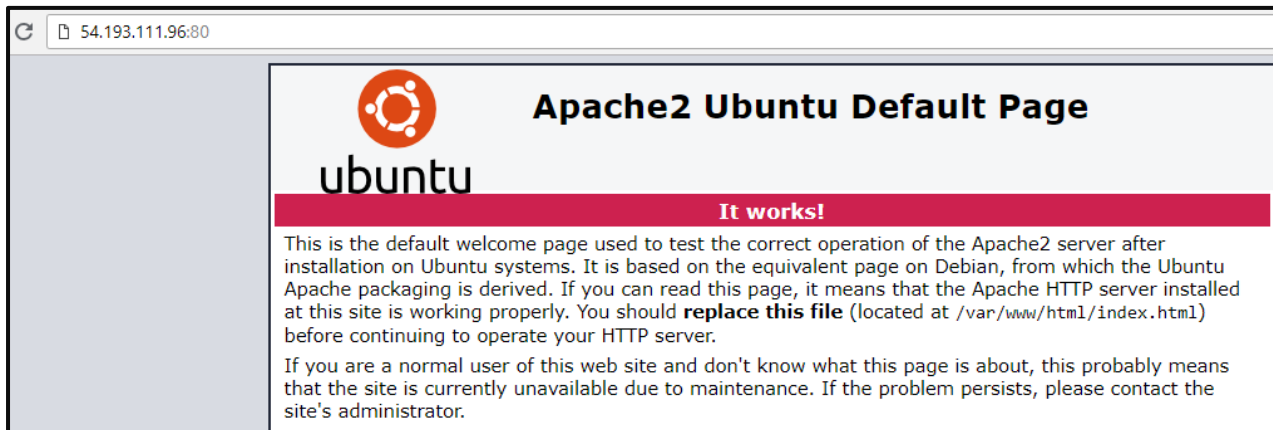
Step 2: Install your Apache server

- Install your apache server by typing the below code in it

```
sudo apt-get update
```

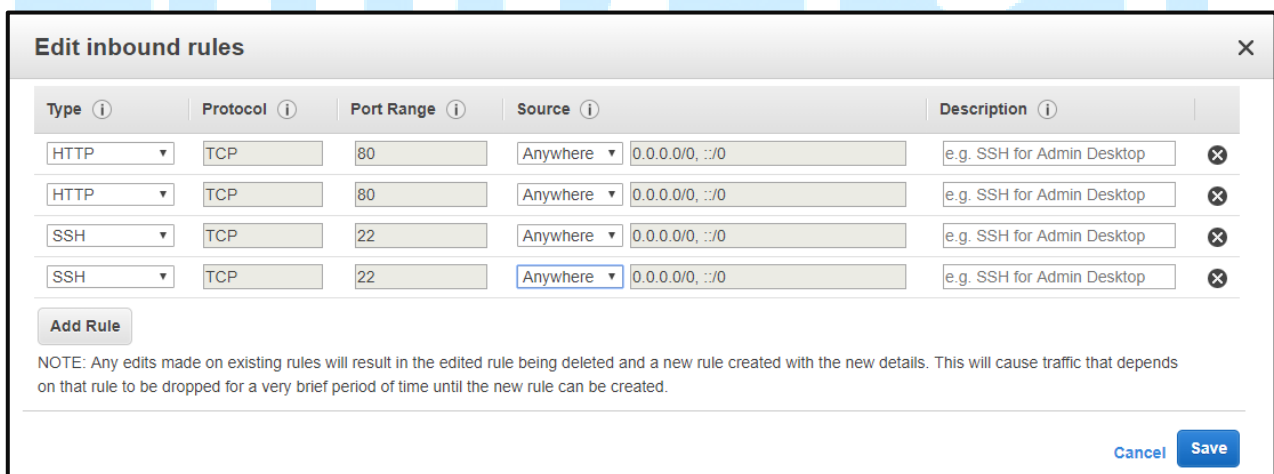
```
sudo apt-get install apache2
```

Step3: Test whether your apache server is running, type `http://Public IP address:80` in your browser



Step4: Troubleshoot

- Check your security group, if you are not able to connect to EC2 from internet



Step5: Create a Website

- Create the directory

```
sudo mkdir -p /var/www/edureka123456.tk/public_html
```

- To give permissions to the folder you create

```
sudo chmod -R 755 /var/www
```

- To change the permissions

```
sudo chown -R $USER:$USER /var/www/edureka123456.tk/public_html
```

```
ubuntu@ip-172-31-4-153:~$ sudo chown -R $USER:$USER /var/www/edureka123456.com/public_html
ubuntu@ip-172-31-4-153:~$ sudo chmod -R 755 /var/www
```

- Get into the directory you have created

```
cd /var/www/edureka123456.tk/public_html
```

- Create a index.html file in it

```
nano /var/www/edureka123456.tk/public_html/index.html
```

```
<!DOCTYPE html>
<html>
<head>
<style>
.a{ background-color: #2471A3;
color: white;
padding: 12px 20px;
border: none;
border-radius: 4px;
cursor: pointer;
float: center; }
```

```
.bg {background-image: url("https://bit.ly/2OEVTYp");
/* Full height */ height: 100%;
background-position: center;
background-repeat: no-repeat;
background-size: cover; }
.label {
    color: white;
    padding: 8px;
    font-family: Arial;
}
</style>
</head>
<body class="bg" style="padding: 210px 0; background-color:
#dbfcf9;">
<center>
    <h3><font size="24"> <font color="white">Welcome to edureka
website</font></h3>
</center>
</body>
</html>
```

Step6: Create a Host file

- To create a host file, type the below code

```
cd /etc/apache2/sites-available/
```

```
sudo cp /etc/apache2/sites-available/000-default.conf  
/etc/apache2/sites-available/edureka123456.tk.conf
```

```
ubuntu@ip-172-31-6-148:/var/www/edureka123456.tk/public_html$ cd /etc/apache2/si  
tes-available/  
ubuntu@ip-172-31-6-148:/etc/apache2/sites-available$ sudo cp /etc/apache2/sites-  
available/000-default.conf /etc/apache2/sites-available/edureka123456.tk.conf
```

- Edit the virtual host file as

```
sudo nano /etc/apache2/sites-available/edureka123456.tk.conf
```

- Type the code in it

```
<VirtualHost *:80>  
ServerAdmin info@edureka123456.tk  
ServerName edureka123456.tk  
ServerAlias www.edureka123456.tk  
DocumentRoot /var/www/edureka123456.tk/public_html  
ErrorLog ${APACHE_LOG_DIR}/error.log  
CustomLog ${APACHE_LOG_DIR}/access.log combined  
</VirtualHost>
```

Step7: Enable the host file

- To enable the host file

```
sudo a2ensite edureka123456.tk.conf
```

```
GNU nano 2.9.3
VirtualHost *:80>
ServerAdmin info@edureka123456.com
ServerName edureka123456.com
ServerAlias www.edureka123456.com
DocumentRoot /var/www/edureka123456.com/public_html
ErrorLog ${APACHE_LOG_DIR}/error.log
CustomLog ${APACHE_LOG_DIR}/access.log combined

</VirtualHost>

# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
```

- To disable the default host file

```
sudo a2dissite 000-default.conf
```

Step8: Restart the apache server

```
sudo service apache2 restart
```

Step9: Point your local host file to the website you have created

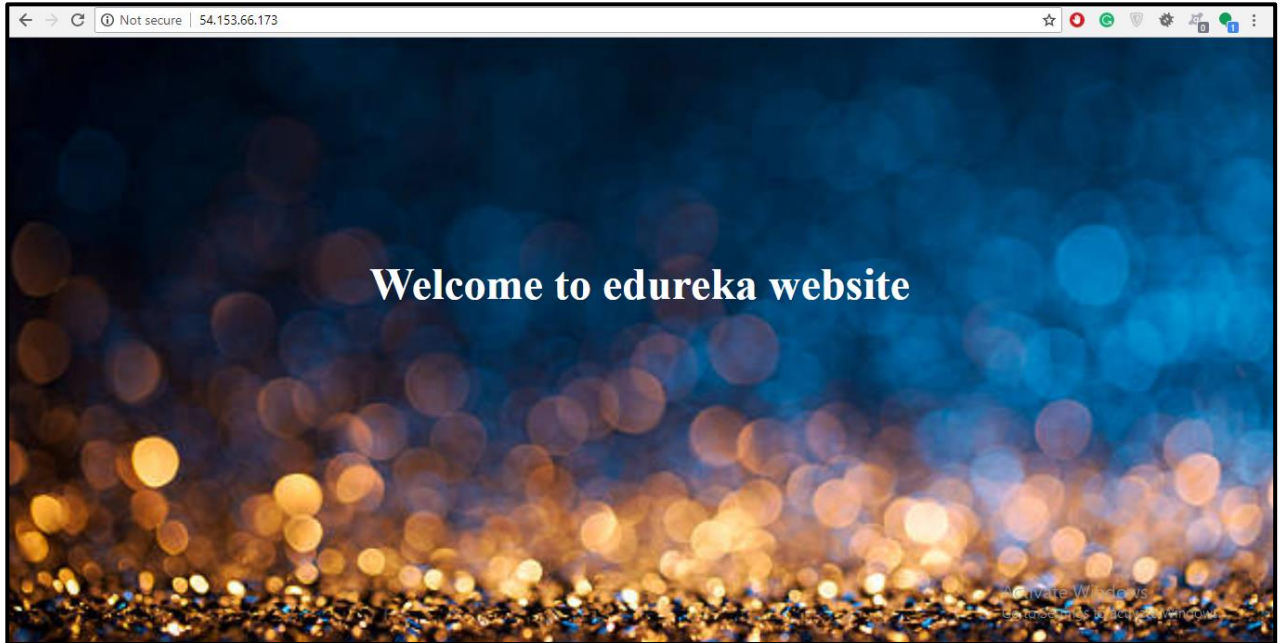
- Type the below code

```
sudo nano /etc/hosts
```

```
Public_IP_address edureka123456.tk
```

```
GNU nano 2.9.3
127.0.0.1 localhost
54.153.66.173 edureka123456.tk
# The following lines are desirable for IPv6 capable hosts
::1 ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
ff02::3 ip6-allhosts
```

- Now when you type your Public IP address in your web browser you will be able to see your website you have hosted



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