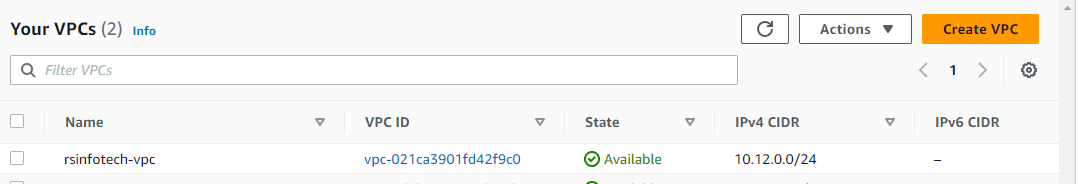
**Project C: 1**

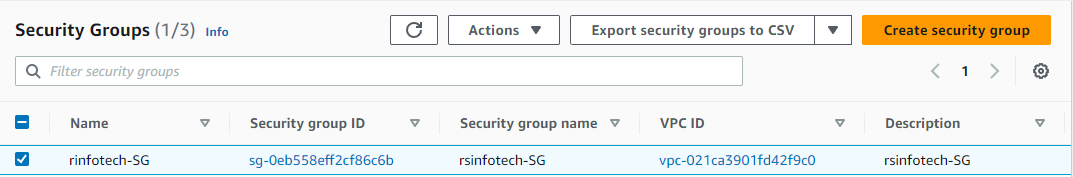
# Run Static web application on single node Architecture

## **To create EC2 instance for single node:**

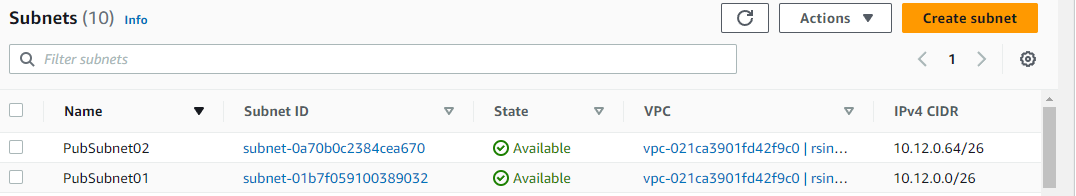
### -Create VPC for EC2 instance:



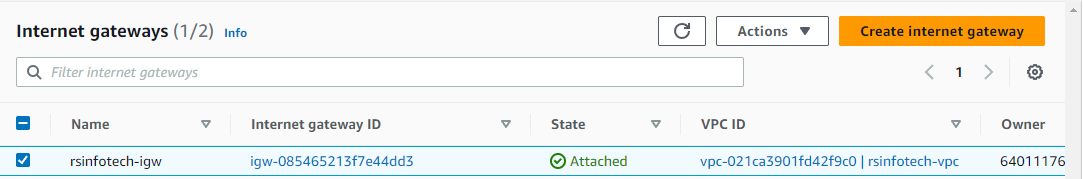
### -Create security group:

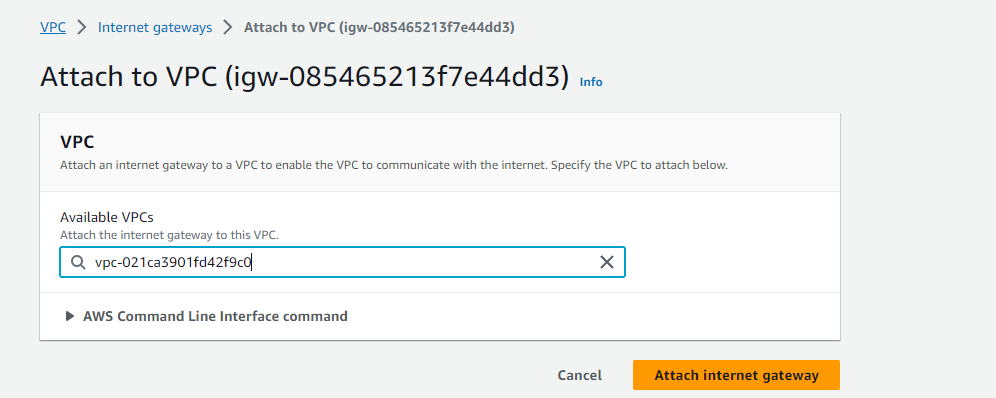


### -Create public subnet:

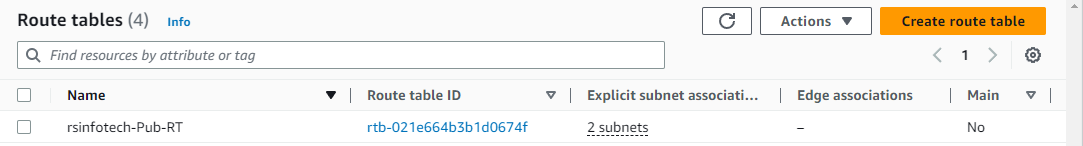


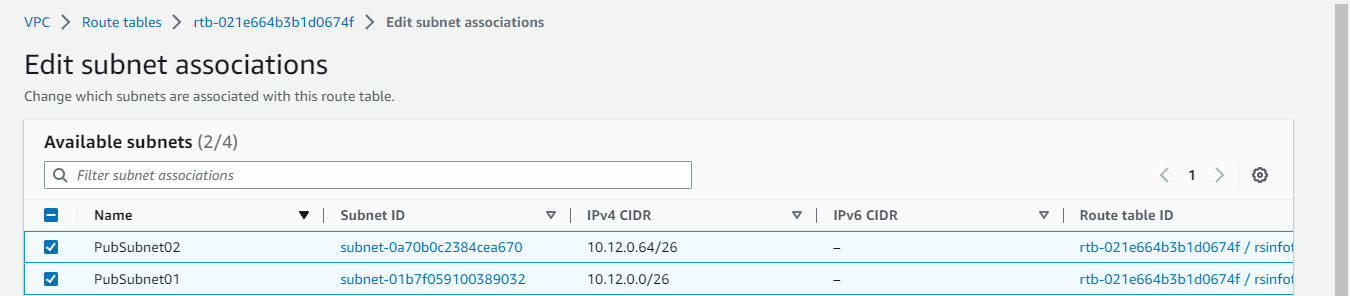
### -Create Internet gateways and attach to VPC:



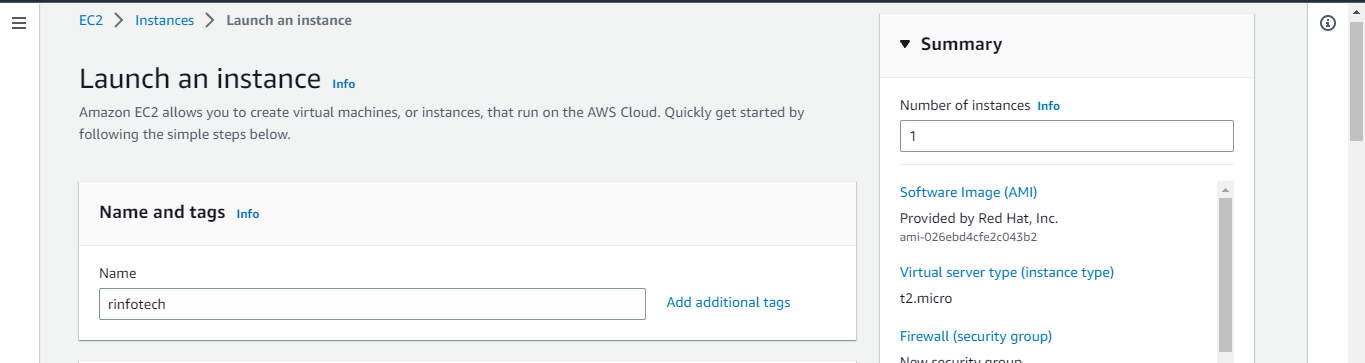


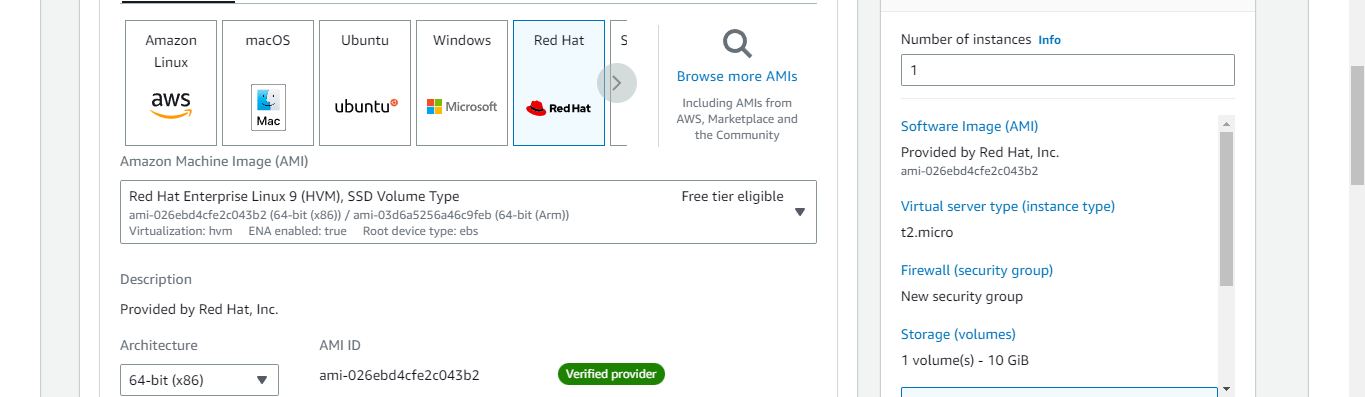
### -Create Route Table and publicsubnet associate with public route table

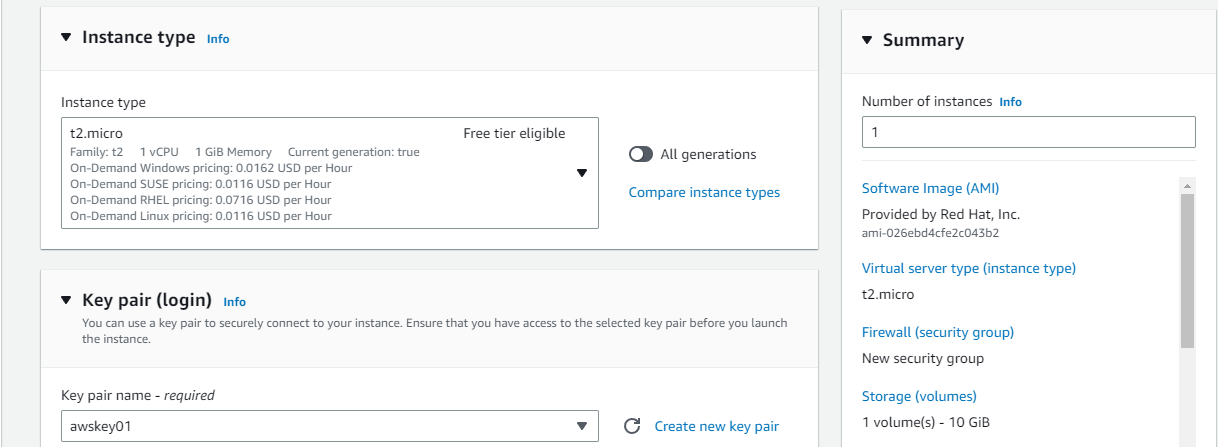


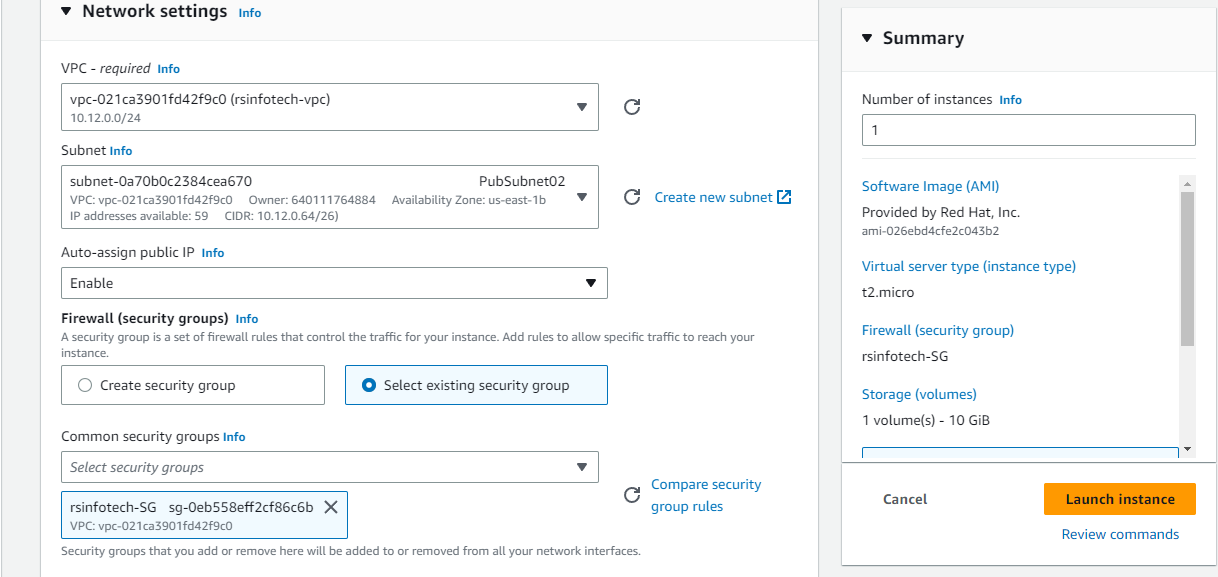


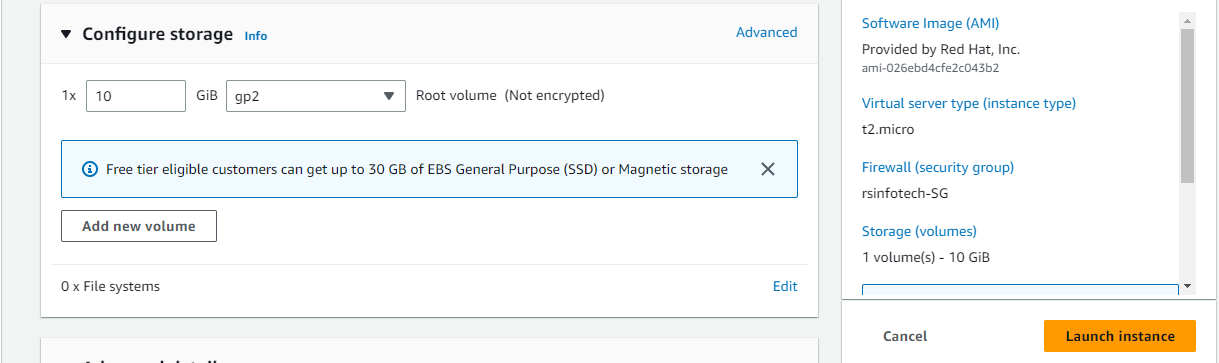
### -Create EC2 instance (Redhat server):

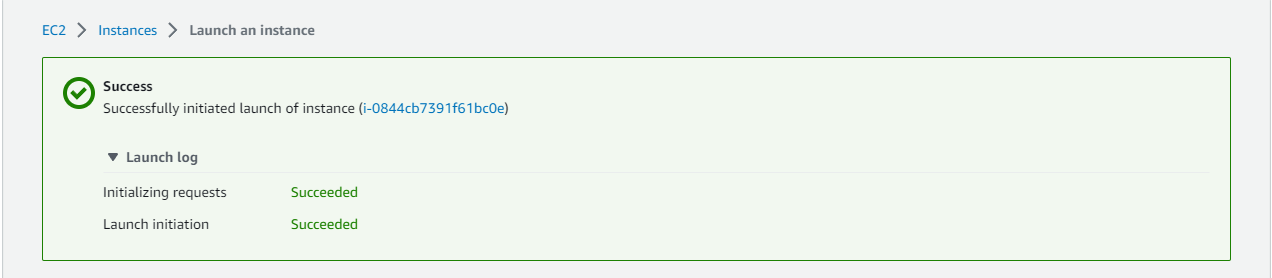












### -Successfully created Instance:

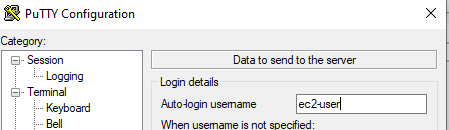
## 

## **Connect to EC2 instance using putty software:**

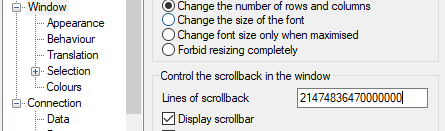
### **-**Putty configuration:

Putty Settings:-

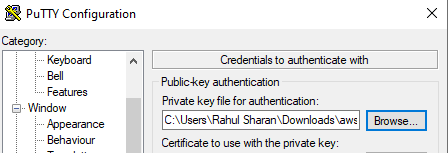
Connection ---->Data: Auto login



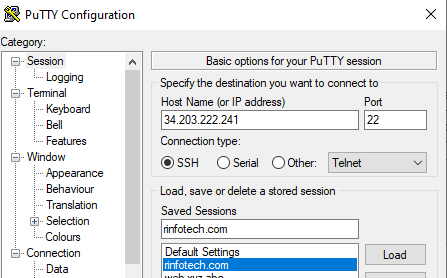
Windows-->: Control the scroll back



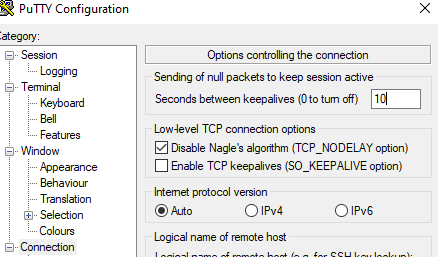
SSH--->Auth: Credentials: public key: Browse..



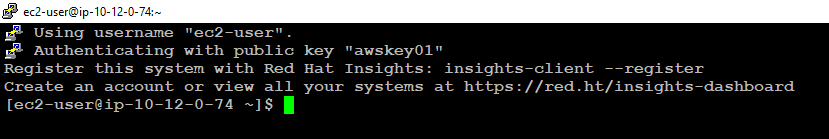
Session--->Hostname or IP: public IP and Port--saved session—load—open—Accept.



Connection: Second between keepalives



### -Successfully connected Instance:



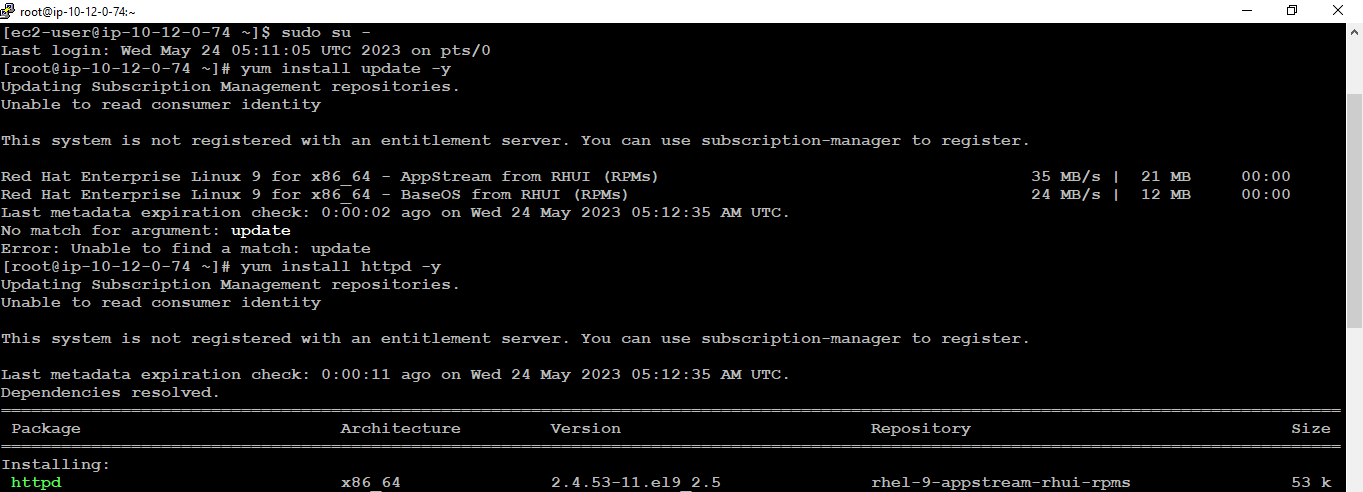
## **To configure the Apache webserver using the EC2 instance:**

### -Install the apache package and updates using the following commands:

$sudo su –

#yum install update –y

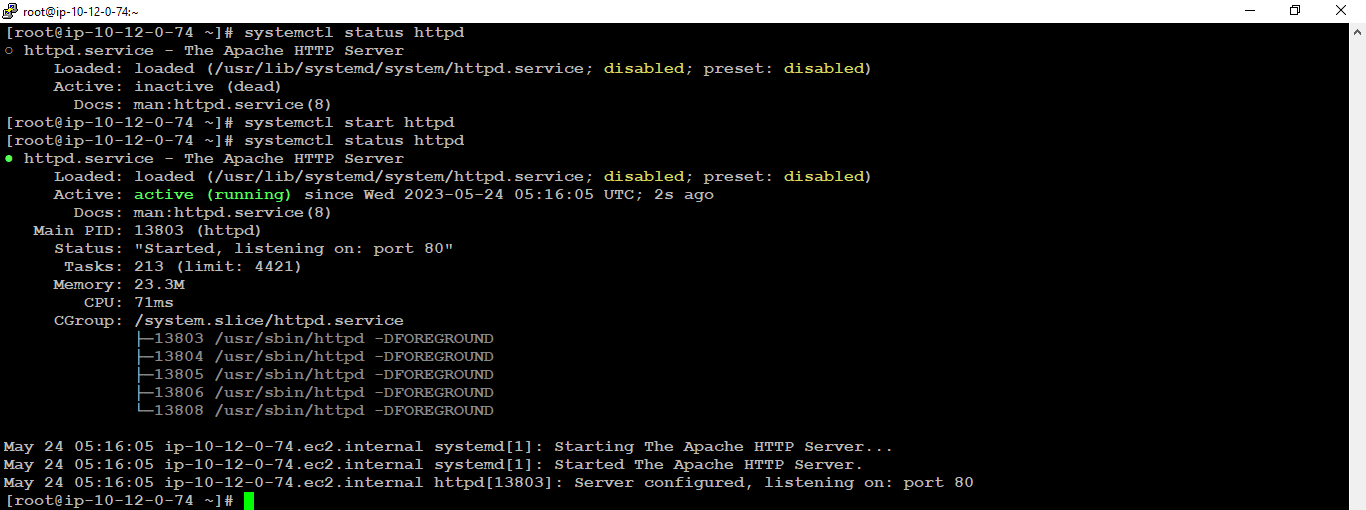
#yum install httpd –y



### -To check and start the apache service using the following commands:

#systemctl status httpd

#systemctl start httpd



### -Configure the document root of apache using the following path:

#cd /var/www/html/

#ls –ltr

#vim index.html

Insert: Paste the .html file and save using esc: wq!

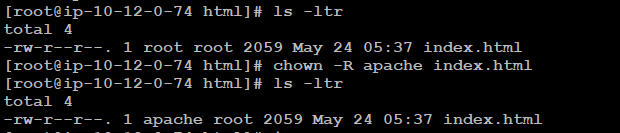


### -Change the index.html file owner as an apache using the following command:

#ls –ltr

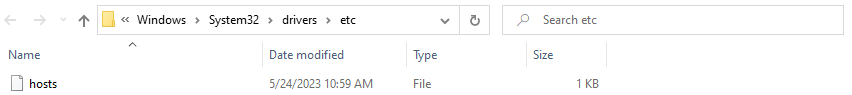
#chown -R apache index.html

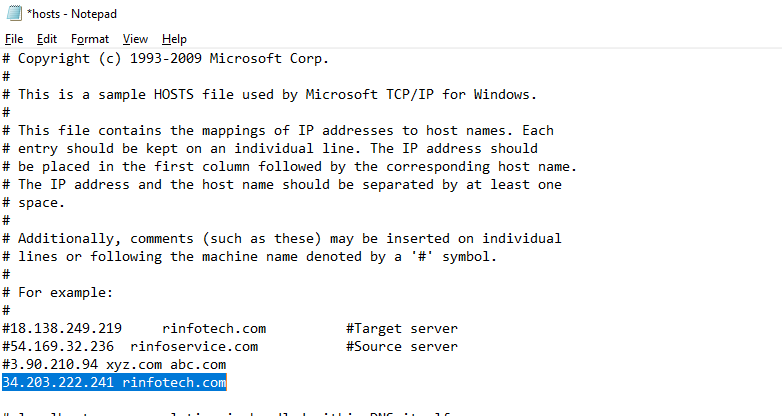
#ls –ltr



### -Local DNS configuration on physical machine windows\_10 using the following path:

C:\Windows\System32\Drivers\etc\hosts





## **To validate the website using Google chrome web browser:**

### -Open the web-browser and type the rinfotech.com

