Guide – EC2 Security Group settings to open port 80

Web Application Development COP3834

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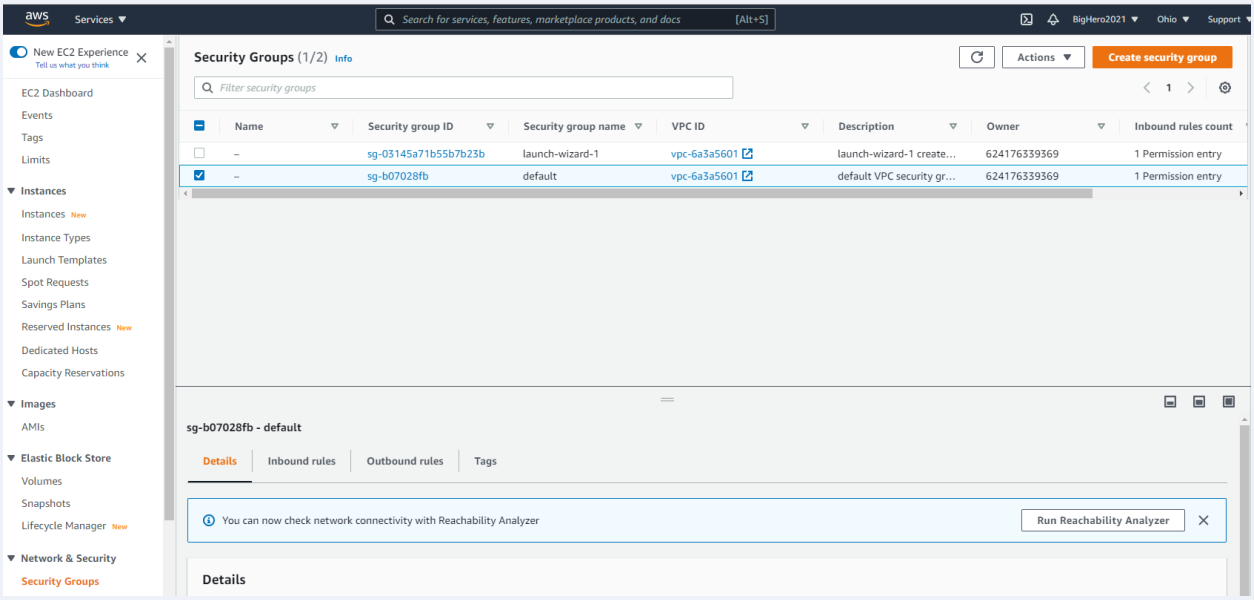
LAMP stack should be installed by this point. This is step is necessary to send http request to apache web server.

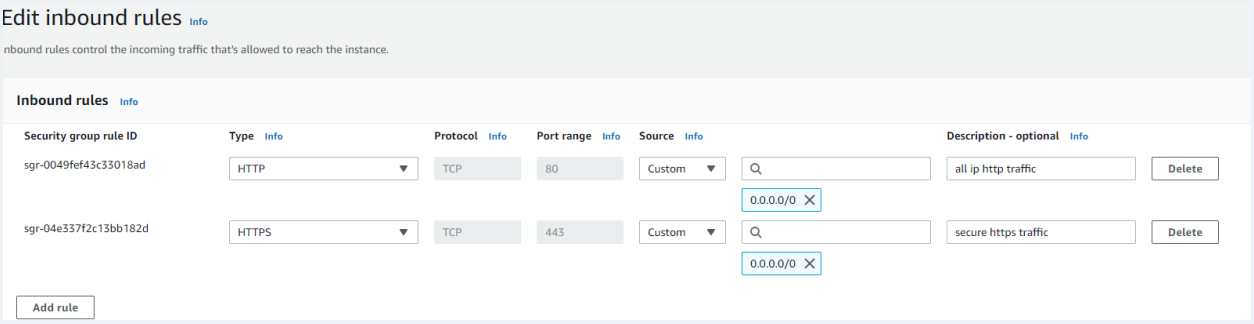
Step 1: Open AWS Management Console for instance

Step 2: From AWS Management Console, Select Security Groups

Step 3: Create Security group button on left



Step 4: Create rules as follows and press Create Security Group at bottom right



Set inbound and outbound rules for EC2. Specifically for port 80 inbound.

Amazon tutorial can also be found at
https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_Tutorials.WebServerDB.CreateVPC.html#CHAP_Tutorials.WebServerDB.CreateVPC.SecurityGroupEC2

Step 5: Check status of apache with systemctl status httpd to ensure active

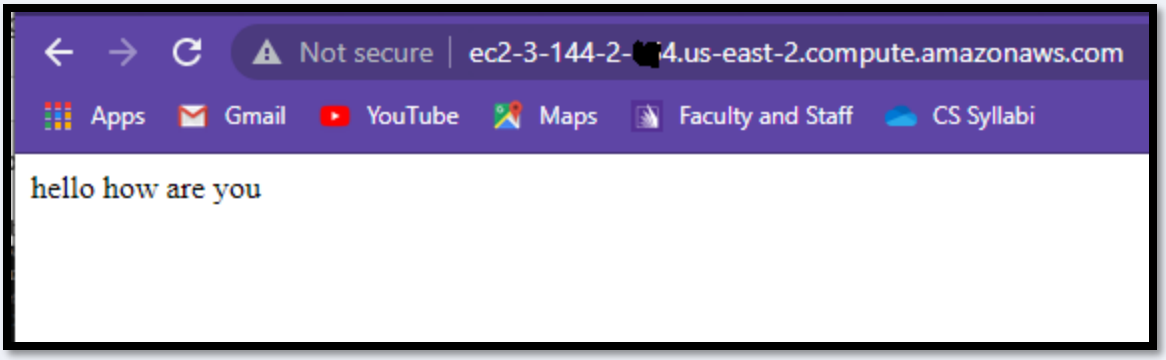
```
[ec2-user@ip-172-31-14-199 ~]$ systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)
  Drop-In: /usr/lib/systemd/system/httpd.service.d
           └─php-fpm.conf
   Active: active (running) since Thu 2021-08-12 23:20:41 UTC; 1min 0s ago
     Docs: man:httpd.service(8)
 Main PID: 15823 (httpd)
   Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; Bytes served/sec:   0 B/sec"
   CGroup: /system.slice/httpd.service
           ├─15823 /usr/sbin/httpd -DFOREGROUND
           ├─15829 /usr/sbin/httpd -DFOREGROUND
           ├─15830 /usr/sbin/httpd -DFOREGROUND
           ├─15831 /usr/sbin/httpd -DFOREGROUND
           ├─15832 /usr/sbin/httpd -DFOREGROUND
           └─15833 /usr/sbin/httpd -DFOREGROUND

Aug 12 23:20:41 ip-172-31-14-199.us-east-2.compute.internal systemd[1]: Starting The Apache HTTP Server...
Aug 12 23:20:41 ip-172-31-14-199.us-east-2.compute.internal systemd[1]: Started The Apache HTTP Server.
[ec2-user@ip-172-31-14-199 ~]$
```

Step 6: Create an index.html file to test. Place in /var/www/html directory

Step 7: Test http request to your public URL. (Use your public web address)

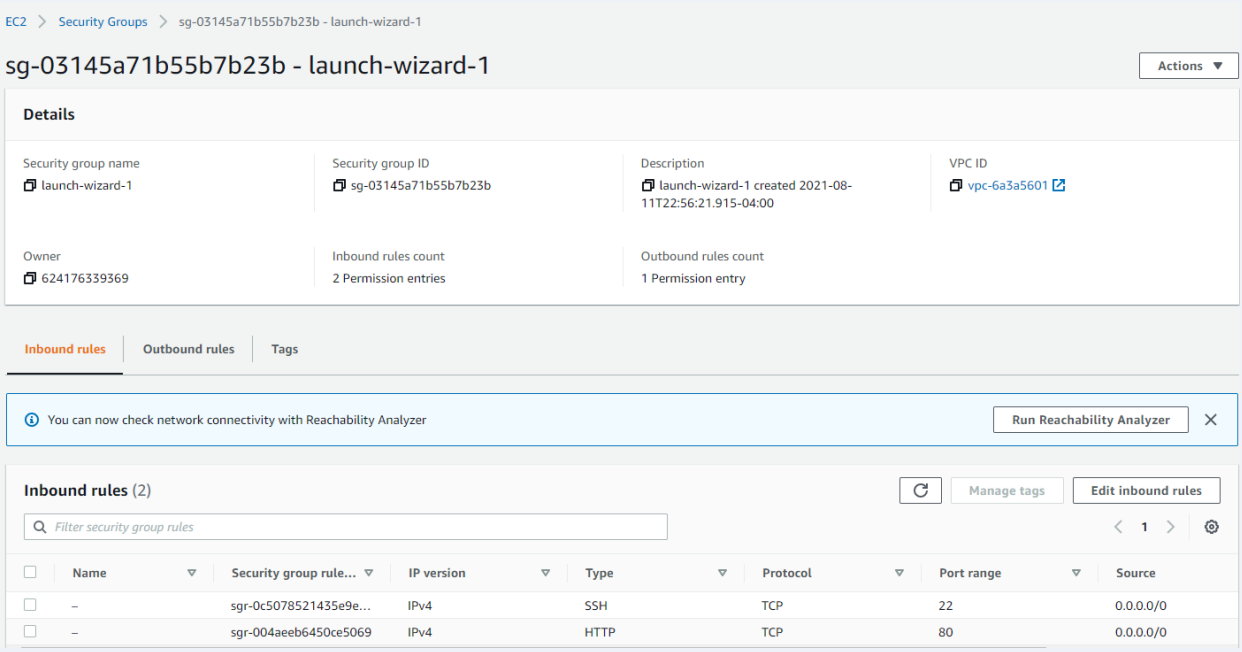
http:// http://ec2-3-144-2-004.us-east-2.compute.amazonaws.com/



Step 8: Disable apache when finished testing

```
[ec2-user@ip-172-31-14-199 ~]$ sudo service httpd stop
Redirecting to /bin/systemctl stop httpd.service
[ec2-user@ip-172-31-14-199 ~]$
```

Step 9: Review Security Group settings



Step 10: Go back and review security settings and httpd status if index.html not accessible

Complete