Cloud Computing Lab Week-2 : Web Server, Firewall Access, Monitor Cloud Usage

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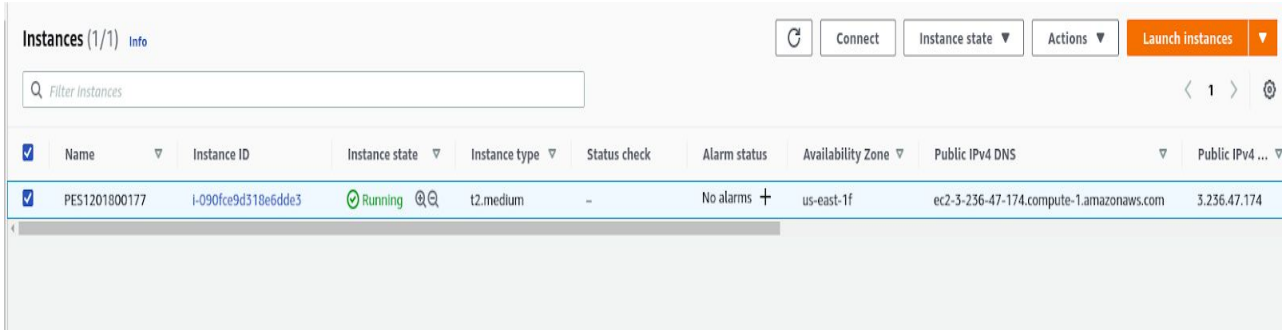
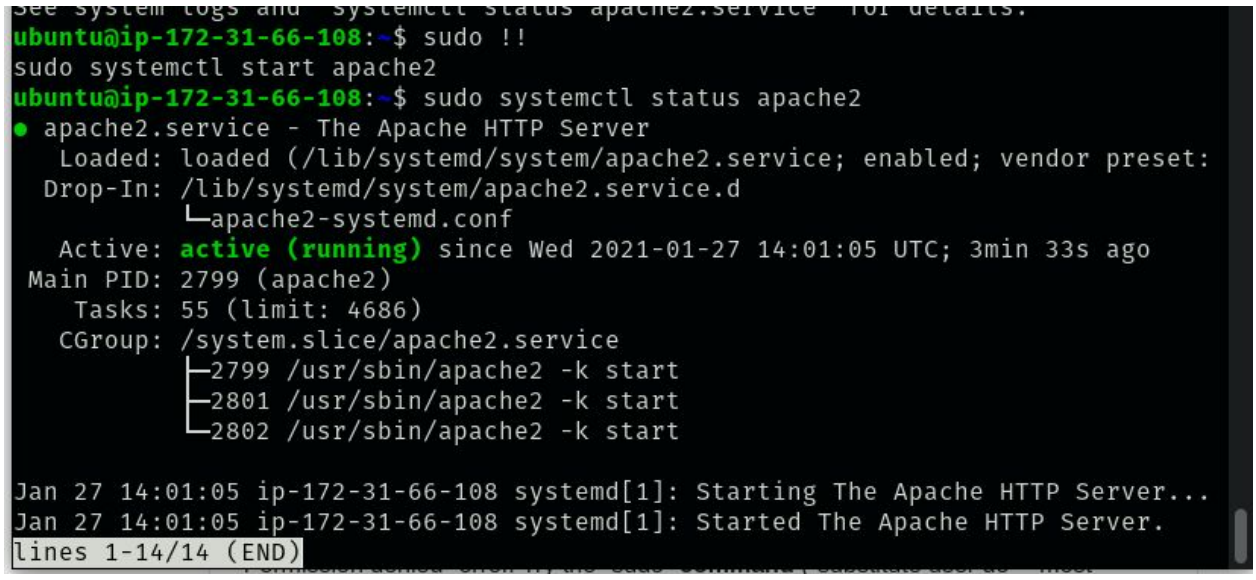
Task -A

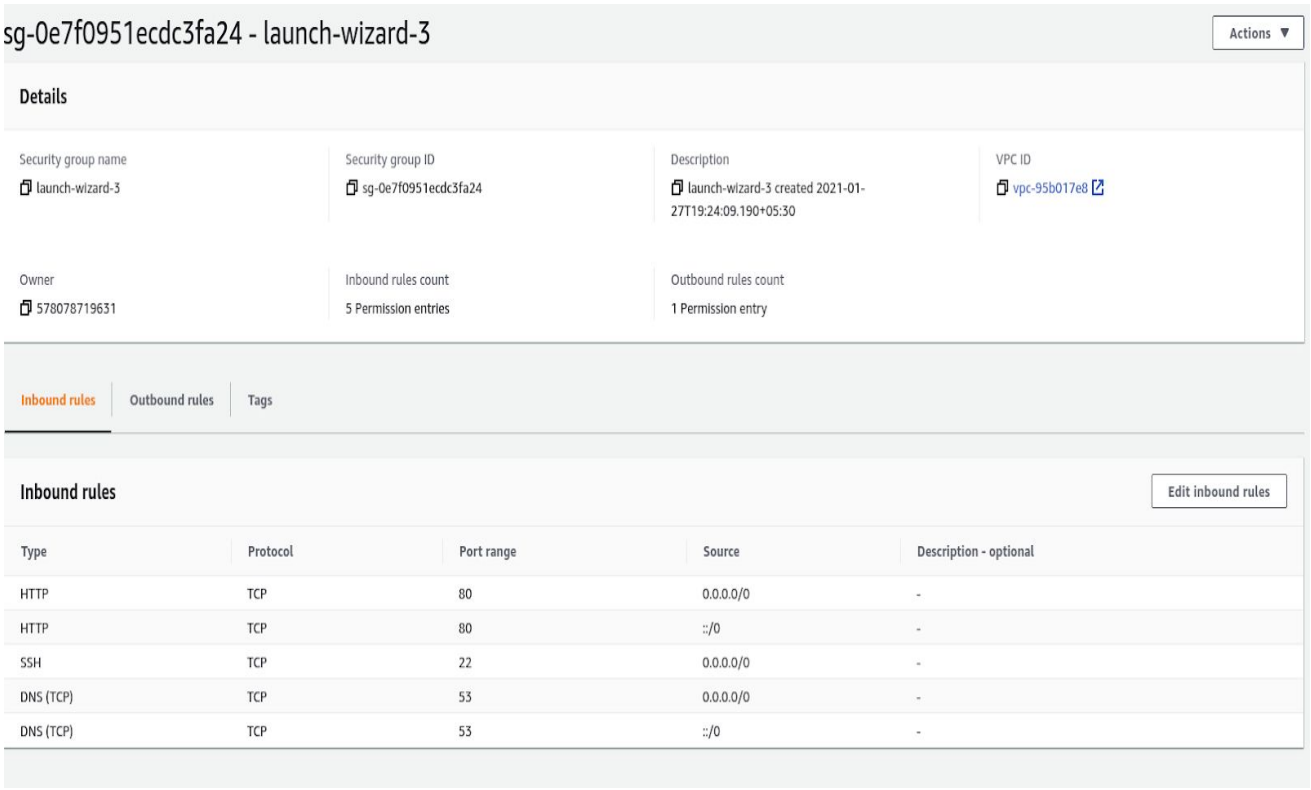
Running instance



Apache server working



Inbound rules



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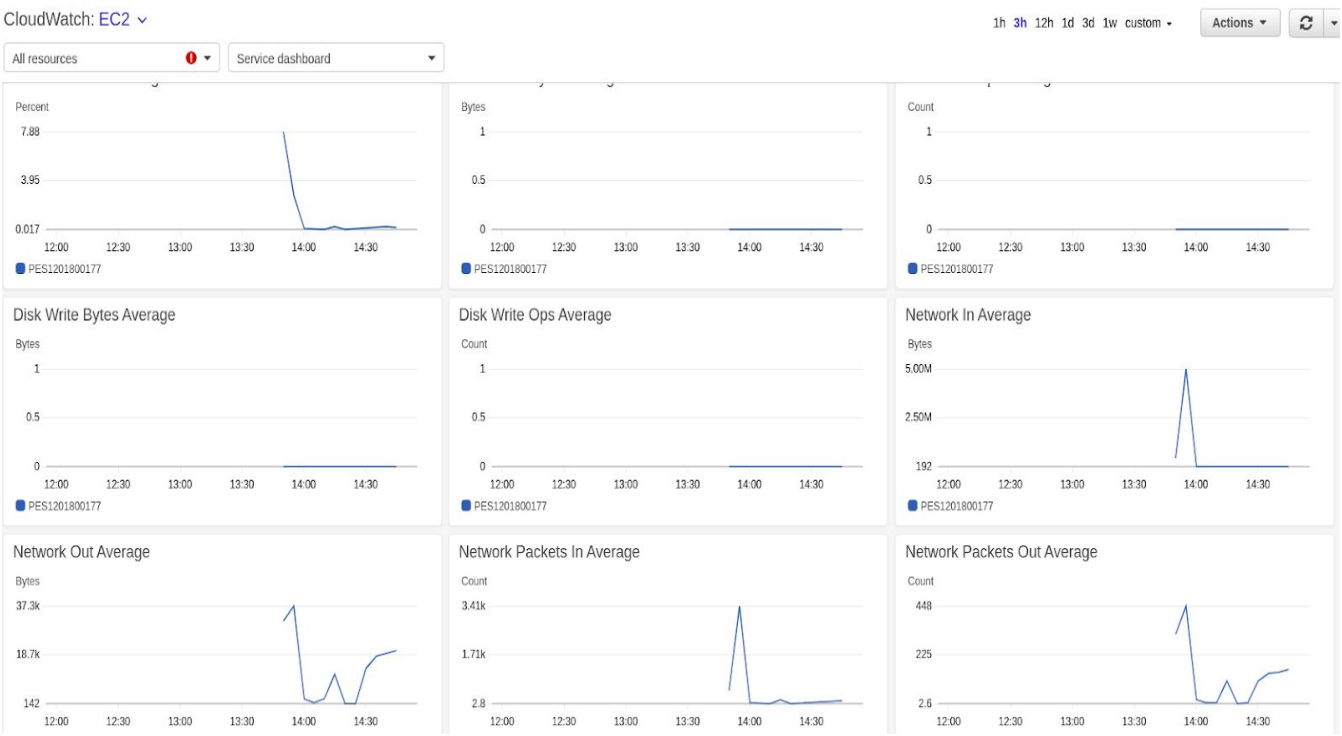
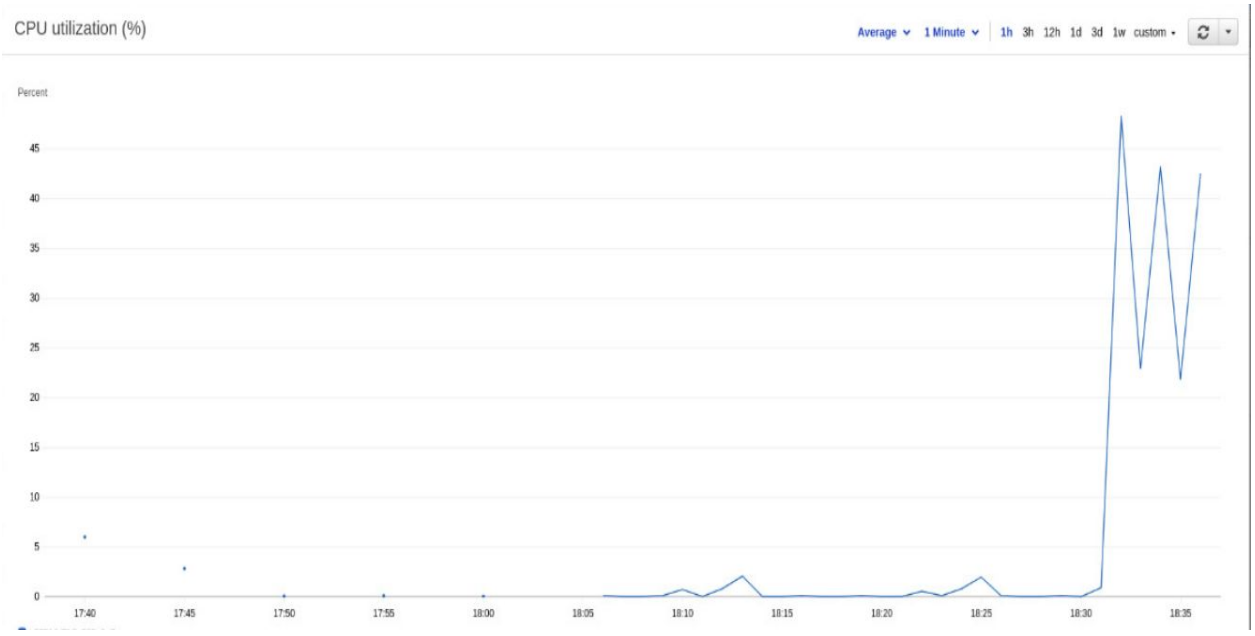
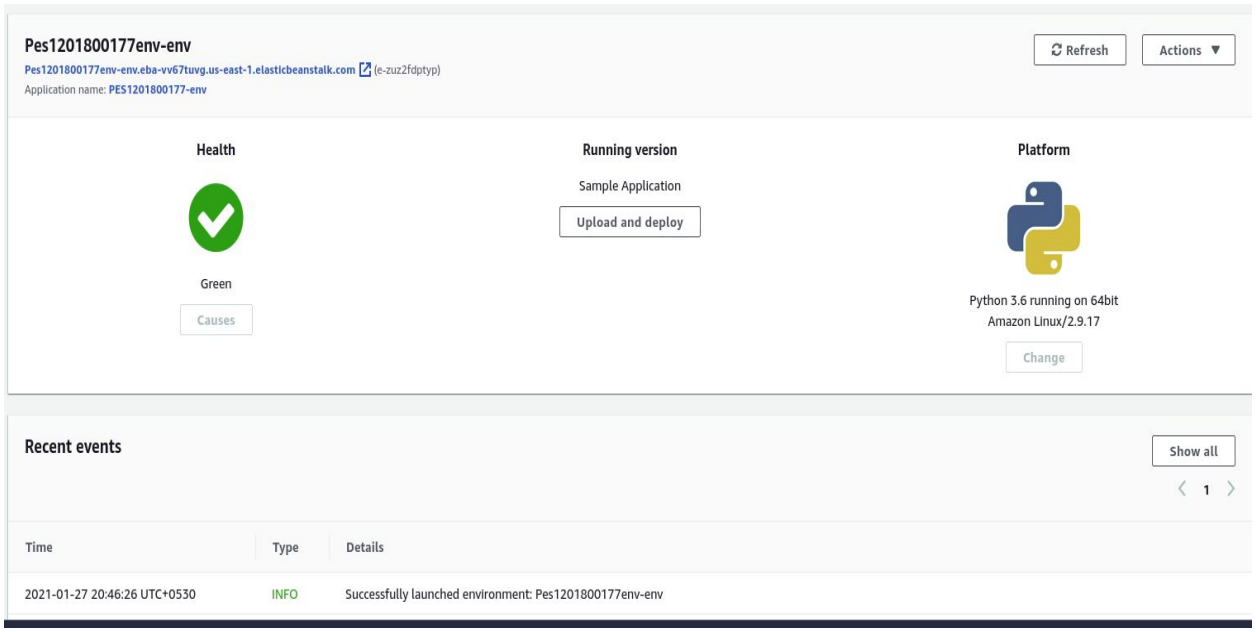
```
Server Software:        Apache/2.4.29
Server Hostname:        ec2-3-236-47-174.compute-1.amazonaws.com
Server Port:            80

Document Path:          /
Document Length:        100 bytes

Concurrency Level:      100
Time taken for tests:   0.073 seconds
Complete requests:      1000
Failed requests:        290
   (Connect: 0, Receive: 0, Length: 290, Exceptions: 0)
Keep-Alive requests:    710
Total transferred:      288600 bytes
HTML transferred:       71000 bytes
Requests per second:    13755.35 [#/sec] (mean)
Time per request:       7.270 [ms] (mean)
Time per request:       0.073 [ms] (mean, across all concurrent requests)
Transfer rate:          3876.75 [Kbytes/sec] received

Connection Times (ms)
              min  mean[+/-sd] median   max
Connect:        0    0   1.1      0       6
Processing:     0    6   5.5      5      25
Waiting:        0    6   5.6      3      25
Total:          0    7   5.8      5      25

Percentage of the requests served within a certain time (ms)
  50%      5
  66%      9
  75%     10
  80%     12
  90%     16
  95%     18
  98%     19
  99%     21
 100%     25 (longest request)
ubuntu@ip-172-31-66-108:~$
```


CloudWatch: EC2
1h 3h 12h 1d 3d 1w custom
Actions
All resources
Service dashboard
Percent
7.88
3.95
0.017
12:00 12:30 13:00 13:30 14:00 14:30
PES1201800177
Bytes
1
0.5
0
PES1201800177
Count
1
0.5
0
PES1201800177
Disk Write Bytes Average
Bytes
1
0.5
0
PES1201800177
Disk Write Ops Average
Count
1
0.5
0
PES1201800177
Network In Average
Bytes
5.00M
2.50M
192
PES1201800177
Network Out Average
Bytes
37.3k
18.7k
142
Network Packets In Average
Count
3.41k
1.71k
2.8
Network Packets Out Average
Count
448
225
2.6

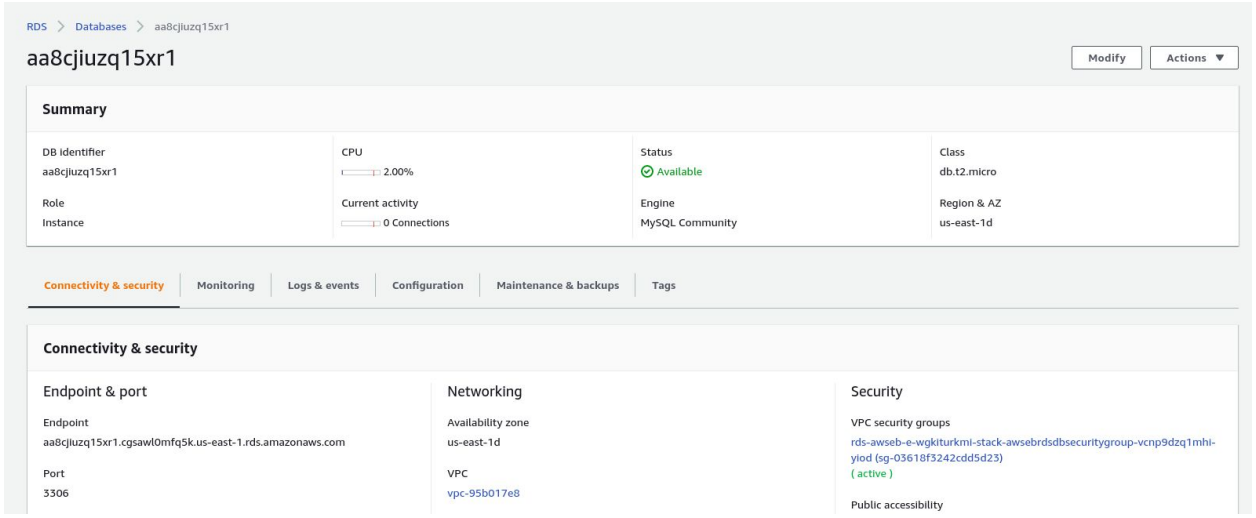

CPU utilization (%)
Average
1 Minute
1h 3h 12h 1d 3d 1w custom
Percent
45
40
35
30
25
20
15
10
5
0
17:40 17:45 17:50 17:55 18:00 18:05 18:10 18:15 18:20 18:25 18:30 18:35

Task- B

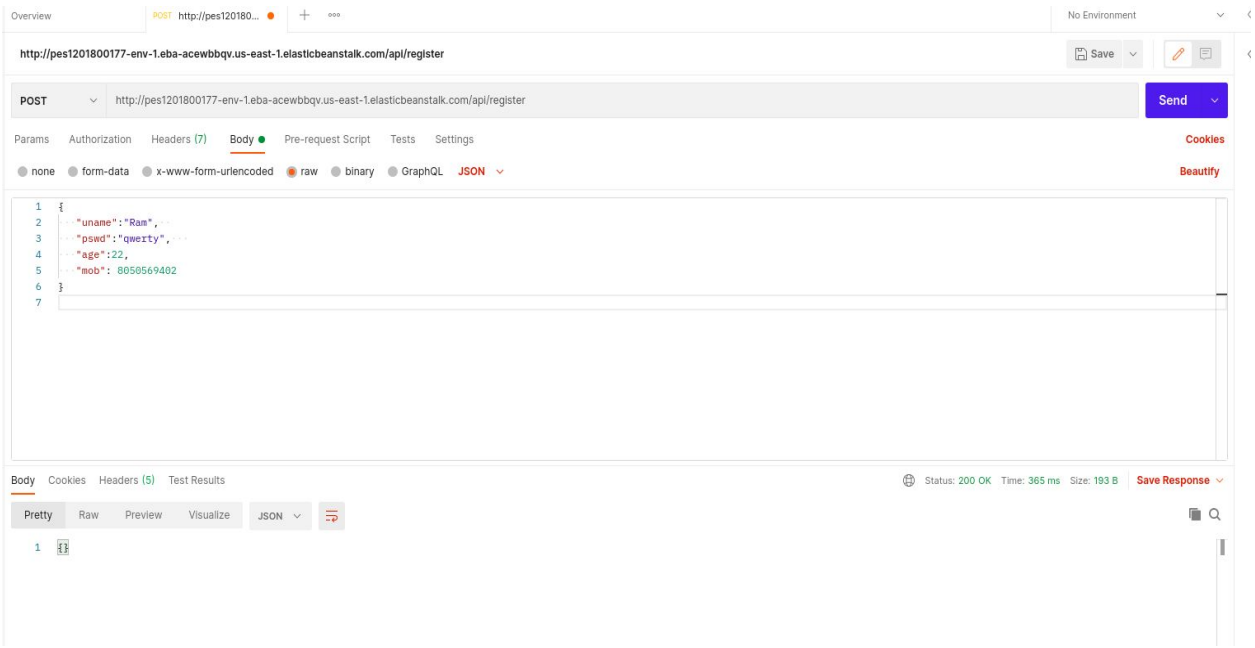
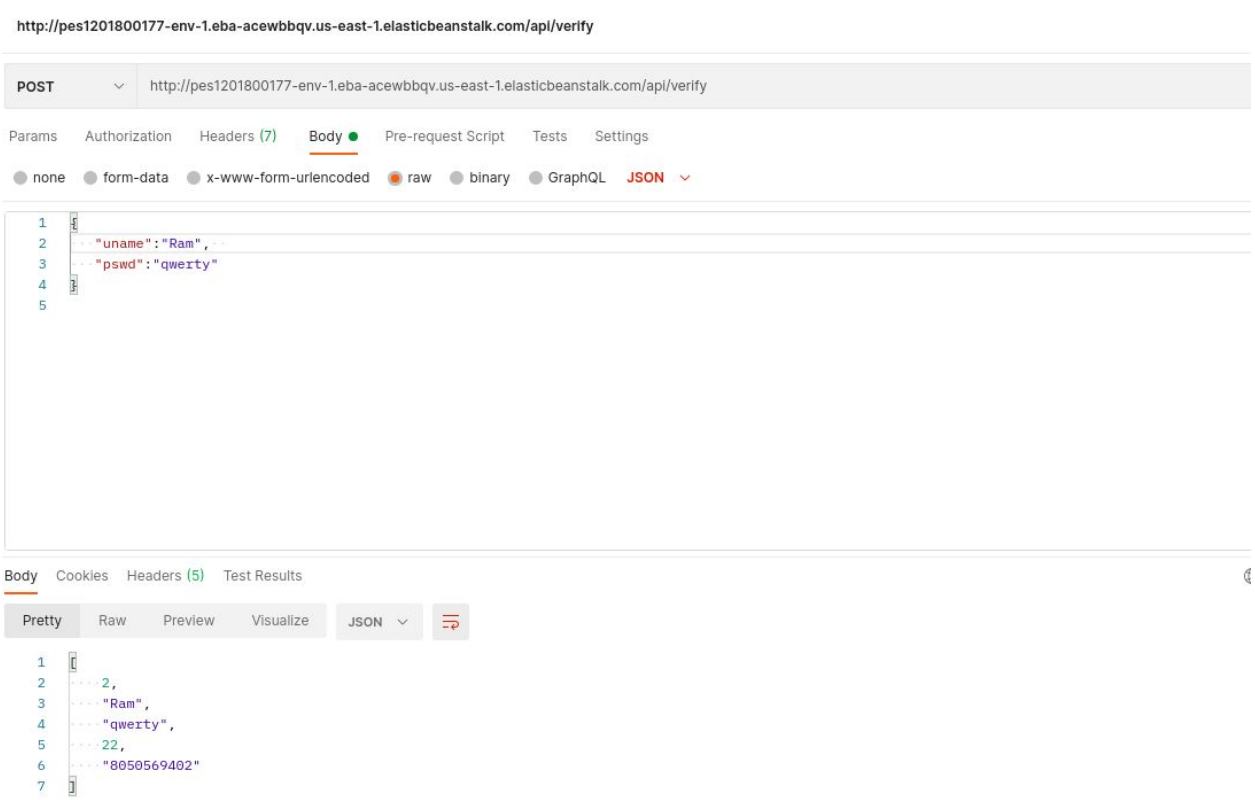
Environment health check



RDS



Registering a user



Verifying a user