Cloud Computing Laboratory Week-2

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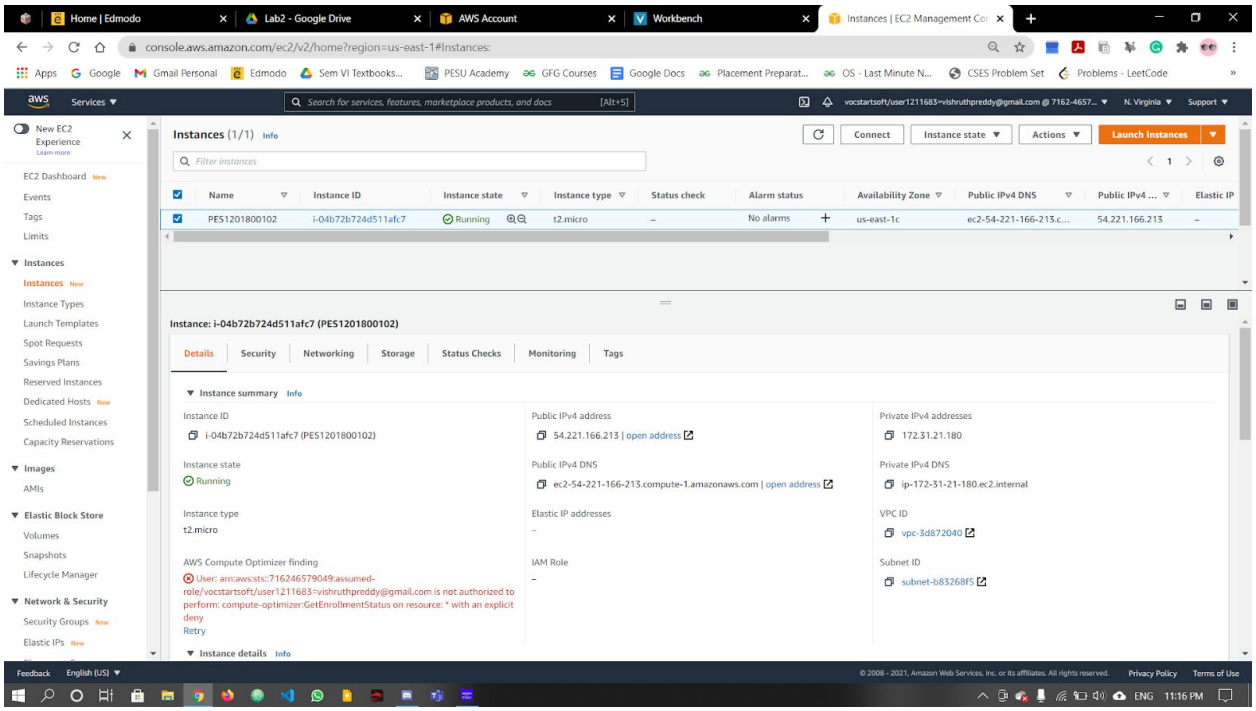
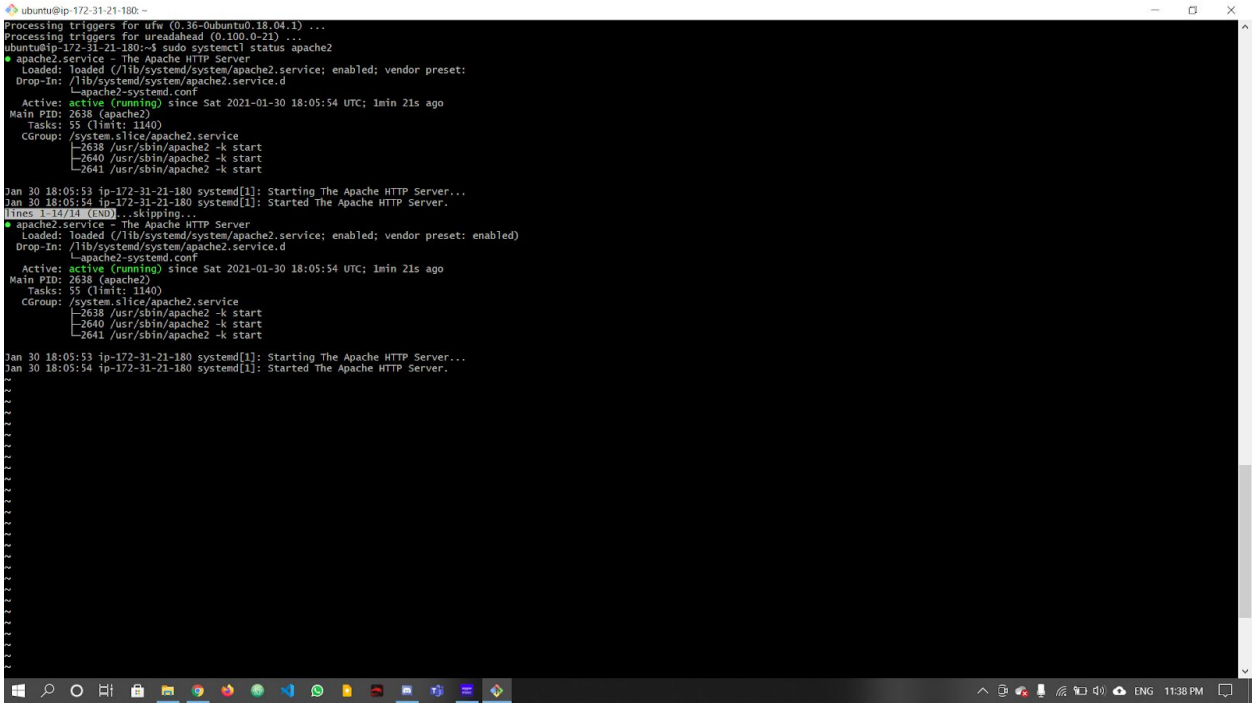
PES1201800102
6-D
Roll No.: 6

Task-A

1a



2a


ubuntu@ip-172-31-21-180: ~
Processing triggers for ufw (0.36-0ubuntu0.18.04.1) ...
Processing triggers for ureadahead (0.100.0-21) ...
ubuntu@ip-172-31-21-180:~$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset:
Drop-In: /lib/systemd/system/apache2.service.d
└─apache2-systemd.conf
Active: active (running) since Sat 2021-01-30 18:05:54 UTC; 1min 21s ago
Main PID: 2638 (apache2)
Tasks: 55 (limit: 1140)
CGroup: /system.slice/apache2.service
├─2638 /usr/sbin/apache2 -k start
├─2640 /usr/sbin/apache2 -k start
└─2641 /usr/sbin/apache2 -k start
Jan 30 18:05:53 ip-172-31-21-180 systemd[1]: Starting The Apache HTTP Server...
Jan 30 18:05:54 ip-172-31-21-180 systemd[1]: Started The Apache HTTP Server.
lines 1-14/14 (END)...skipping...
● apache2.service - The Apache HTTP Server
Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
Drop-In: /lib/systemd/system/apache2.service.d
└─apache2-systemd.conf
Active: active (running) since Sat 2021-01-30 18:05:54 UTC; 1min 21s ago
Main PID: 2638 (apache2)
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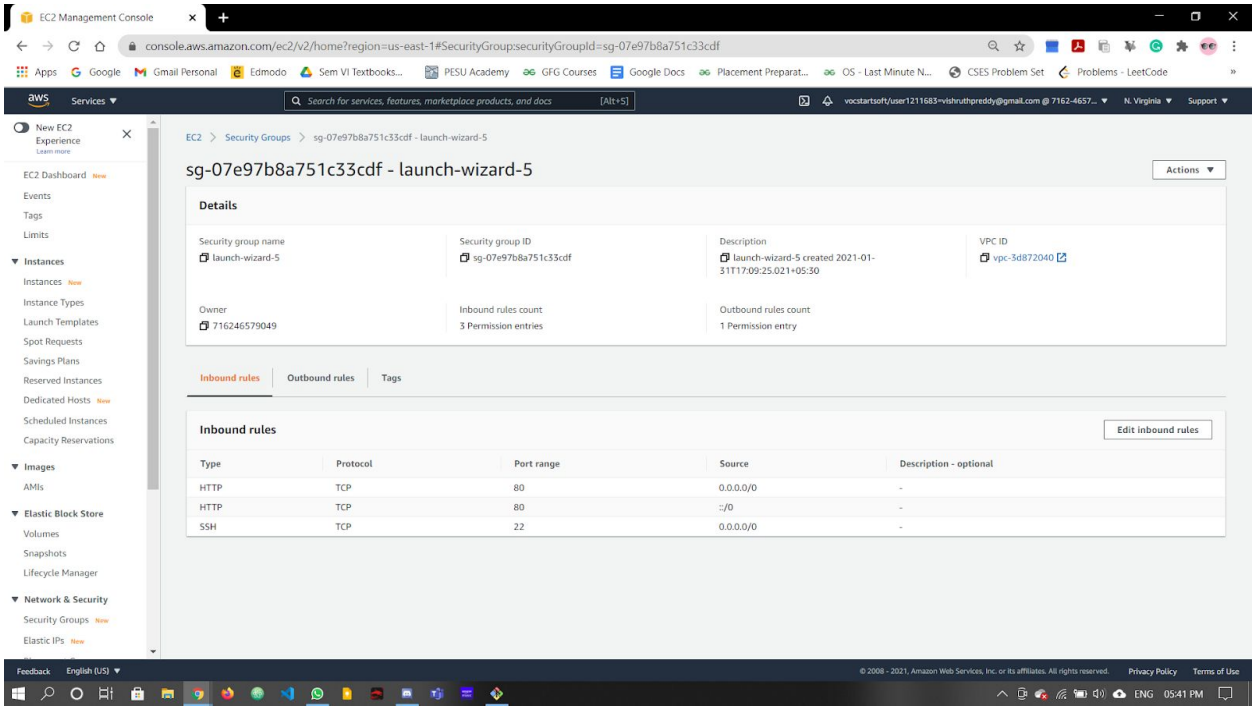
├─2640 /usr/sbin/apache2 -k start
└─2641 /usr/sbin/apache2 -k start
Jan 30 18:05:53 ip-172-31-21-180 systemd[1]: Starting The Apache HTTP Server...
Jan 30 18:05:54 ip-172-31-21-180 systemd[1]: Started The Apache HTTP Server.
ENG 11:38 PM

3a


EC2 Management Console
console.aws.amazon.com/ec2/v2/home?region=us-east-1#SecurityGroup:securityGroupId=sg-07e97b8a751c33cdf
Apps Google Gmail Personal Edmodo Sem VI Textbooks... PESU Academy GFG Courses Google Docs Placement Preparat... OS - Last Minute N... CSES Problem Set Problems - LeetCode
aws Services Search for services, features, marketplace products, and docs [Alt+S]
vocstartsoft/user1211683=vishruthpreddy@gmail.com @ 7162-4657... N. Virginia Support
New EC2 Experience
EC2 Dashboard
Events
Tags
Limits
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
EC2 > Security Groups > sg-07e97b8a751c33cdf - launch-wizard-5
sg-07e97b8a751c33cdf - launch-wizard-5
Actions
Details
Security group name
launch-wizard-5
Security group ID
sg-07e97b8a751c33cdf
Description
launch-wizard-5 created 2021-01-31T17:09:25.021+05:30
VPC ID
vpc-3d872040
Owner
716246579049
Inbound rules count
3 Permission entries
Outbound rules count
1 Permission entry
Inbound rules
Outbound rules
Tags
Inbound rules
Edit inbound rules
Type Protocol Port range Source Description - optional
HTTP TCP 80 0.0.0.0/0 -
HTTP TCP 80 ::/0 -
SSH TCP 22 0.0.0.0/0 -
Feedback English (US)
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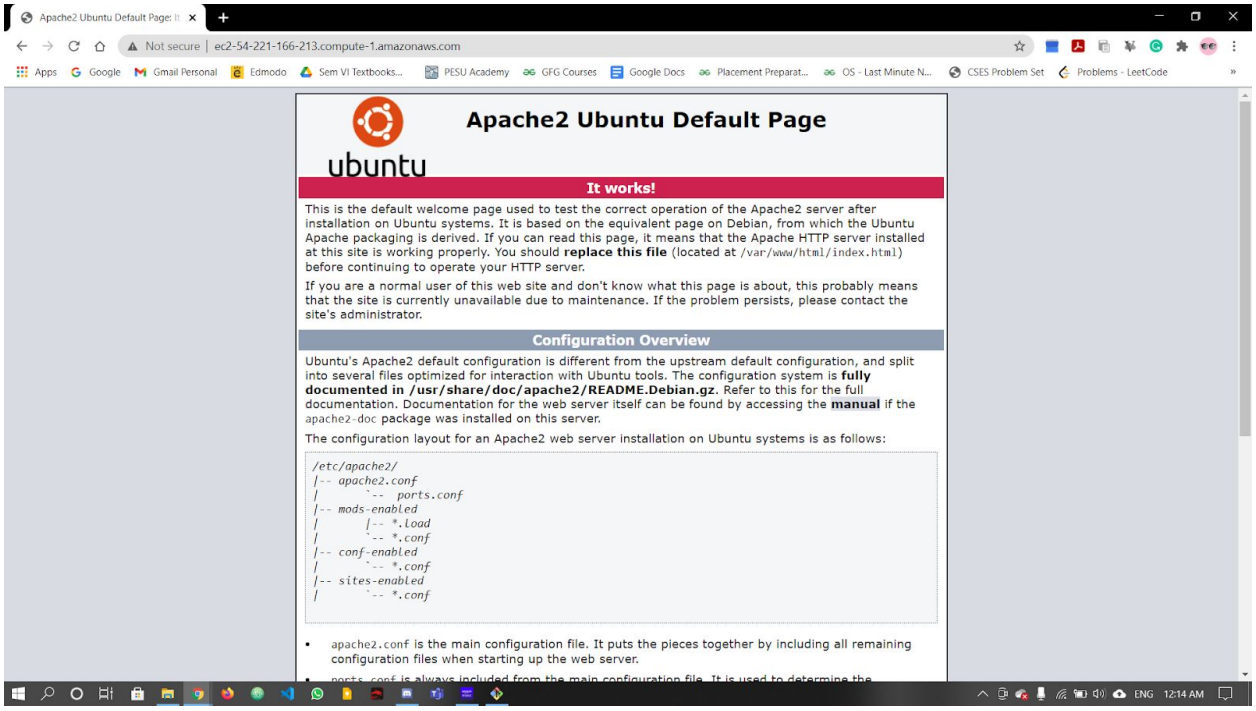
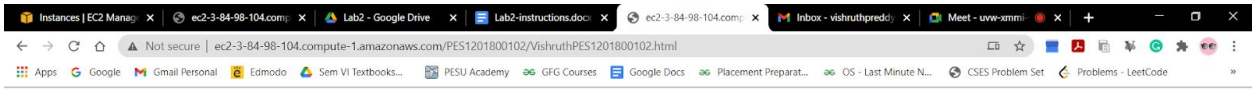
Privacy Policy Terms of Use
ENG 05:41 PM

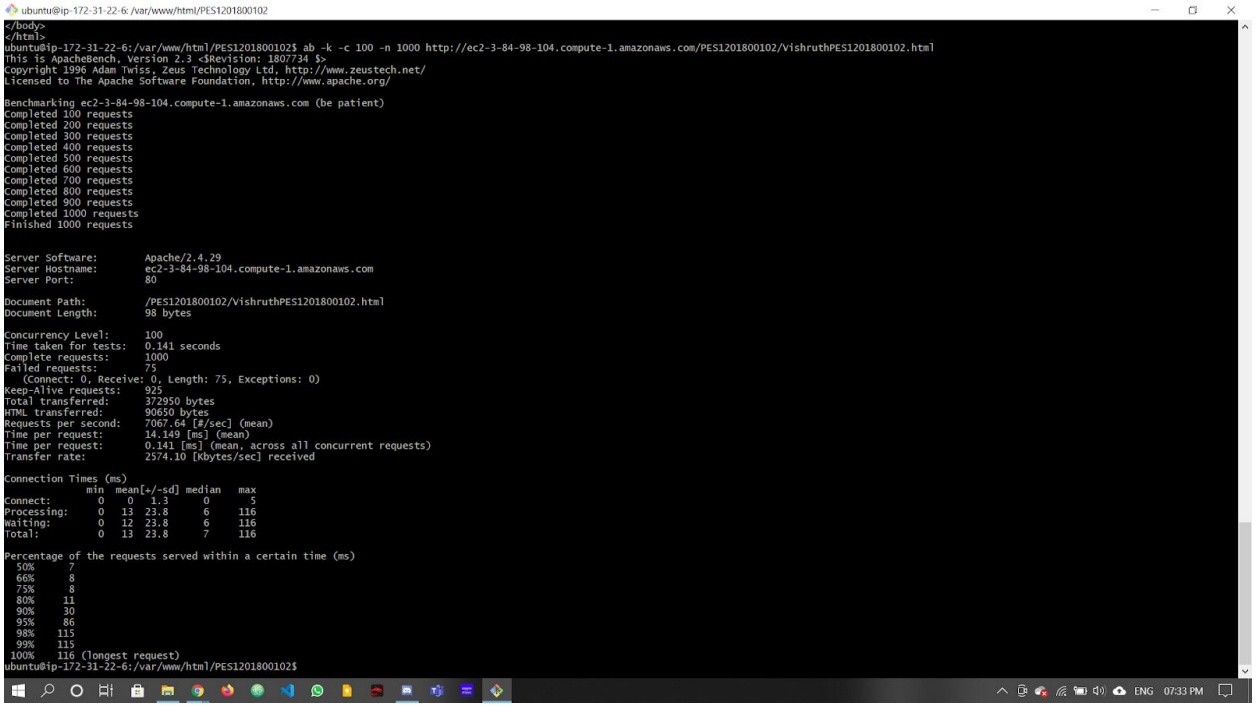
3b


Apache2 Ubuntu Default Page: It
Not secure | ec2-54-221-166-213.compute-1.amazonaws.com
Apache2 Ubuntu Default Page
ubuntu
It works!
This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should replace this file (located at /var/www/html/index.html) before continuing to operate your HTTP server.
If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.
Configuration Overview
Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is fully documented in /usr/share/doc/apache2/README.Debian.gz. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the manual if the apache2-doc package was installed on this server.
The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:
/etc/apache2/
|-- apache2.conf
| `-- ports.conf
|-- mods-enabled
| |-- *.load
| `-- *.conf
|-- conf-enabled
| `-- *.conf
|-- sites-enabled
| `-- *.conf
apache2.conf is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server.

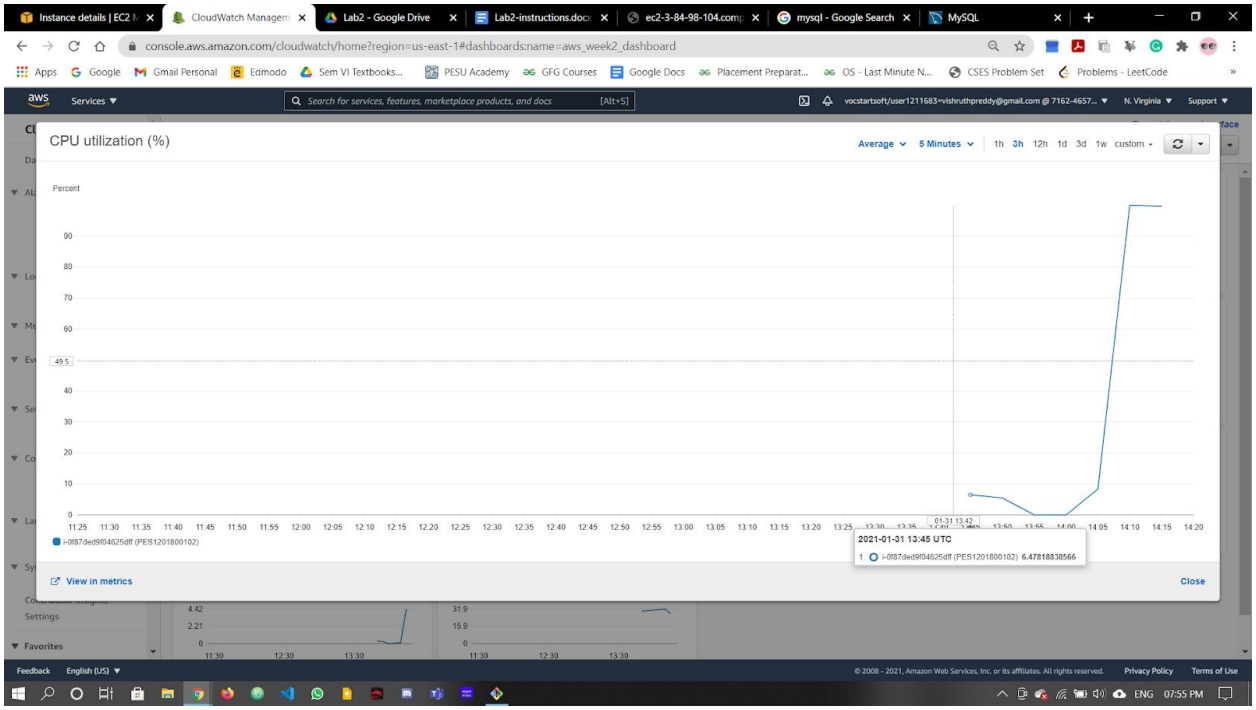
4a


Not secure | ec2-3-84-98-104.compute-1.amazonaws.com/PES1201800102/VishruthPES1201800102.html
Hi, this is Vishruth.
My SRN is PES1201800102

5a


ubuntu@ip-172-31-22-6: /var/www/html/PES1201800102
</body>
</html>
ubuntu@ip-172-31-22-6:/var/www/html/PES1201800102$ ab -k -c 100 -n 1000 http://ec2-3-84-98-104.compute-1.amazonaws.com/PES1201800102/VishruthPES1201800102.html
This is ApacheBench, Version 2.3 <$Revision: 1807734 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/
Benchmarking ec2-3-84-98-104.compute-1.amazonaws.com (be patient)
Completed 100 requests
Completed 200 requests
Completed 300 requests
Completed 400 requests
Completed 500 requests
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Completed 1000 requests
Finished 1000 requests
Server Software: Apache/2.4.29
Server Hostname: ec2-3-84-98-104.compute-1.amazonaws.com
Server Port: 80
Document Path: /PES1201800102/VishruthPES1201800102.html
Document Length: 98 bytes
Concurrency Level: 100
Time taken for tests: 0.141 seconds
Complete requests: 1000
Failed requests: 75
(Connect: 0, Receive: 0, Length: 75, Exceptions: 0)
Keep-Alive requests: 925
Total transferred: 372950 bytes
HTML transferred: 90650 bytes
Requests per second: 7067.64 [#/sec] (mean)
Time per request: 14.149 [ms] (mean)
Time per request: 0.141 [ms] (mean, across all concurrent requests)
Transfer rate: 2574.10 [Kbytes/sec] received
Connection Times (ms)
min mean[+/-sd] median max
Connect: 0 0 1.3 0 5
Processing: 0 13 23.8 6 116
Waiting: 0 12 23.8 6 116
Total: 0 13 23.8 7 116
Percentage of the requests served within a certain time (ms)
50% 7
66% 8
75% 8
80% 11
90% 30
95% 86
98% 115
99% 115
100% 116 (longest request)
ubuntu@ip-172-31-22-6:/var/www/html/PES1201800102$
ENG 07:33 PM

5b


Instance details | EC2
CloudWatch Managem
Lab2 - Google Drive
Lab2-instructions.doc
ec2-3-84-98-104.comp
mysql - Google Search
MySQL
console.aws.amazon.com/cloudwatch/home?region=us-east-1#dashboards:name=aws_week2_dashboard
CPU utilization (%)
Average
5 Minutes
Percent
2021-01-31 13:45 UTC
i-0f87ded9f04625dff (PES1201800102) 6.47818838566
View in metrics
Close
Favorites
Feedback
English (US)
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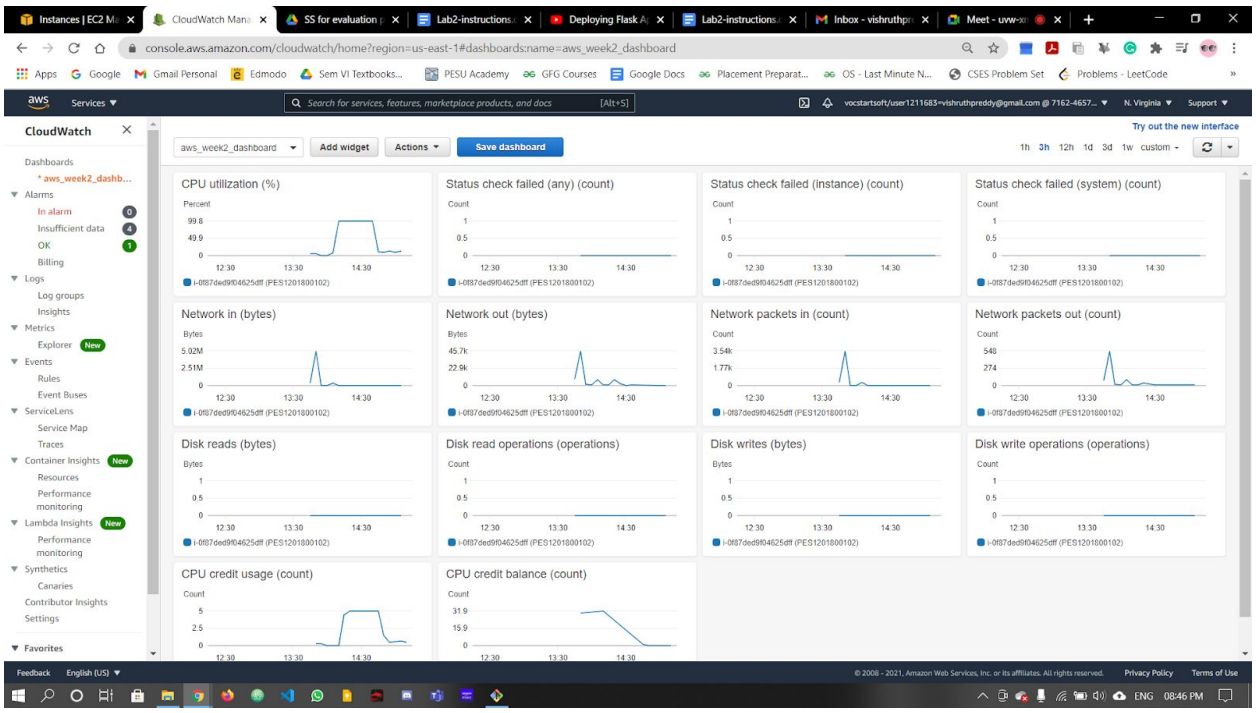
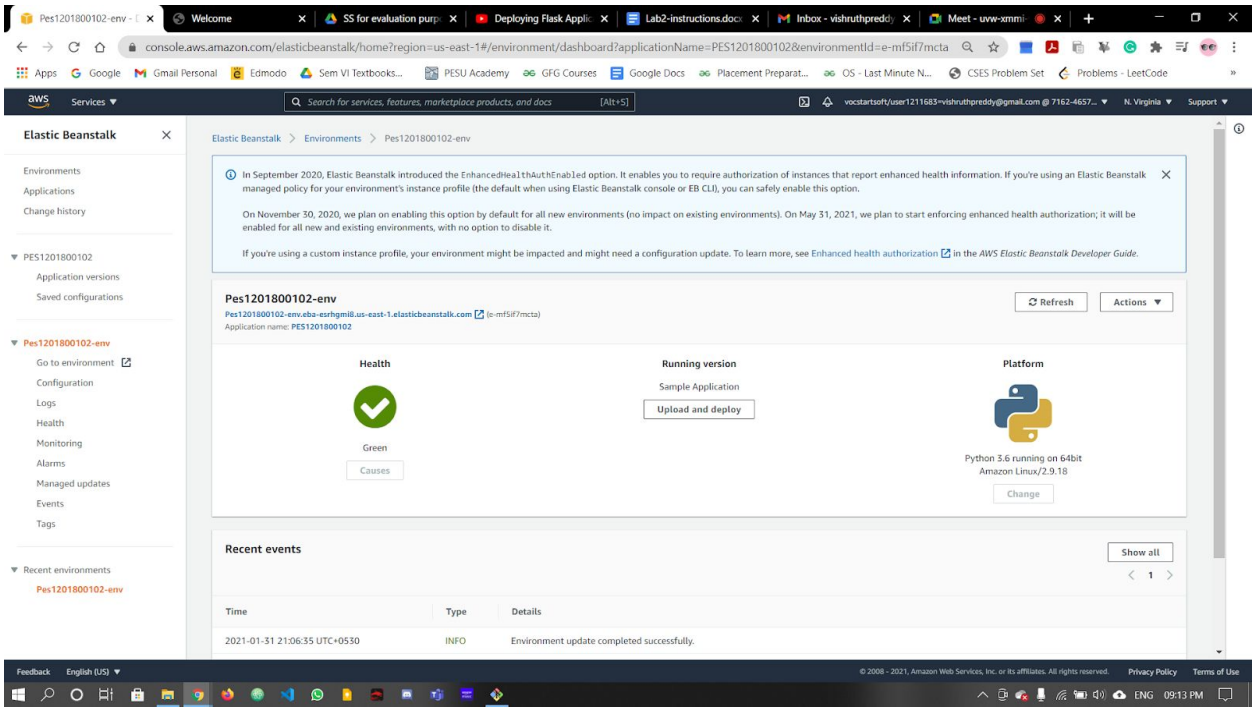
Privacy Policy
Terms of Use
ENG 07:55 PM

5c

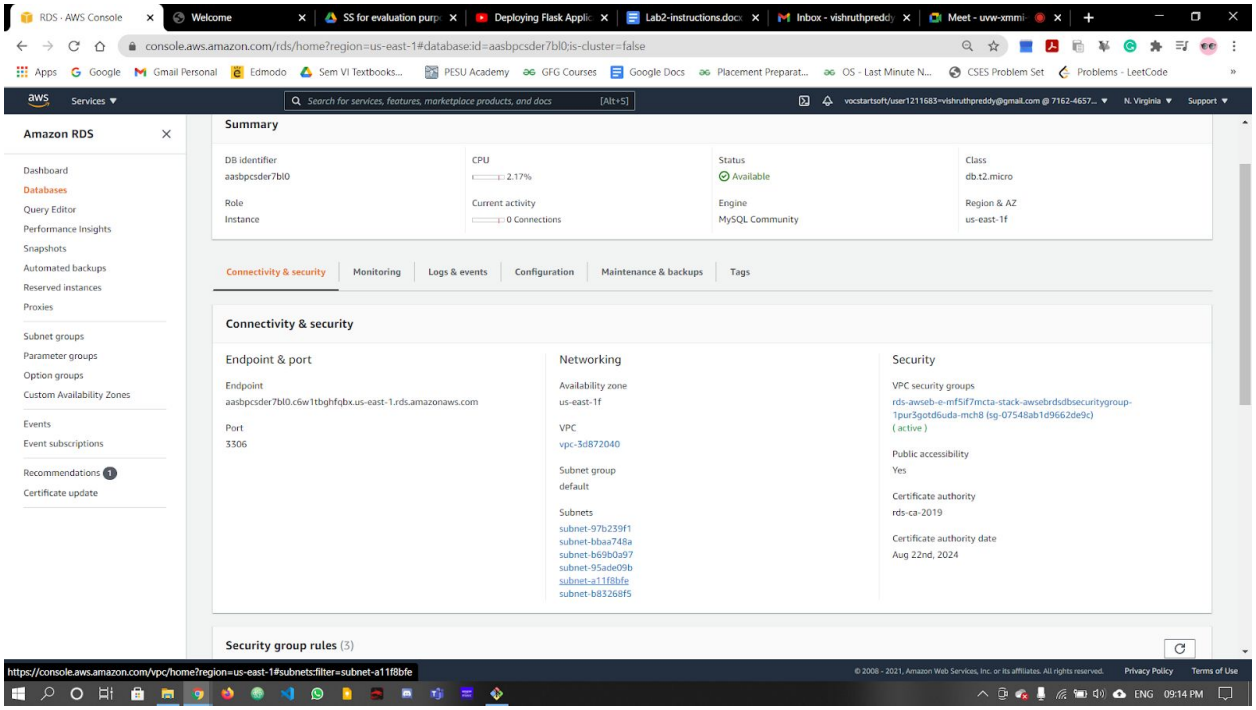

CloudWatch
aws_week2_dashboard
Add widget
Actions
Save dashboard
CPU utilization (%)
Status check failed (any) (count)
Status check failed (instance) (count)
Status check failed (system) (count)
Network in (bytes)
Network out (bytes)
Network packets in (count)
Network packets out (count)
Disk reads (bytes)
Disk read operations (operations)
Disk writes (bytes)
Disk write operations (operations)
CPU credit usage (count)
CPU credit balance (count)

Task-B

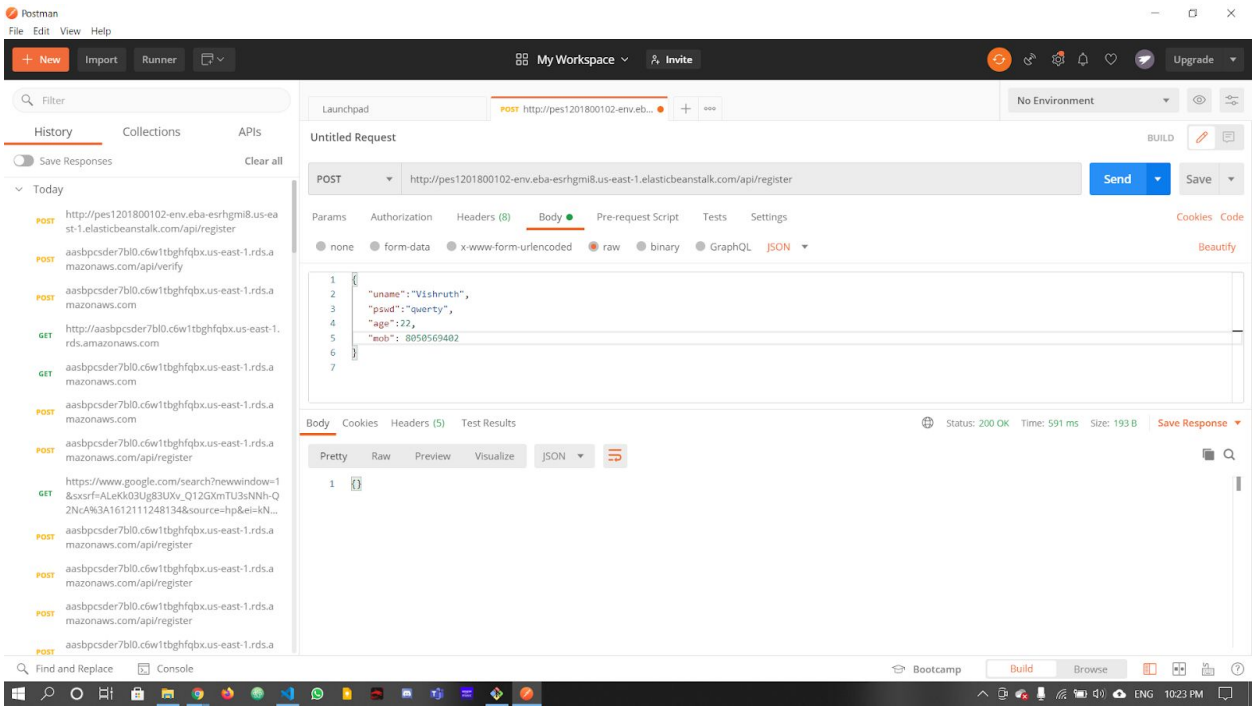
B1


Elastic Beanstalk
Pes1201800102-env
Health
Running version
Platform
Sample Application
Upload and deploy
Recent events

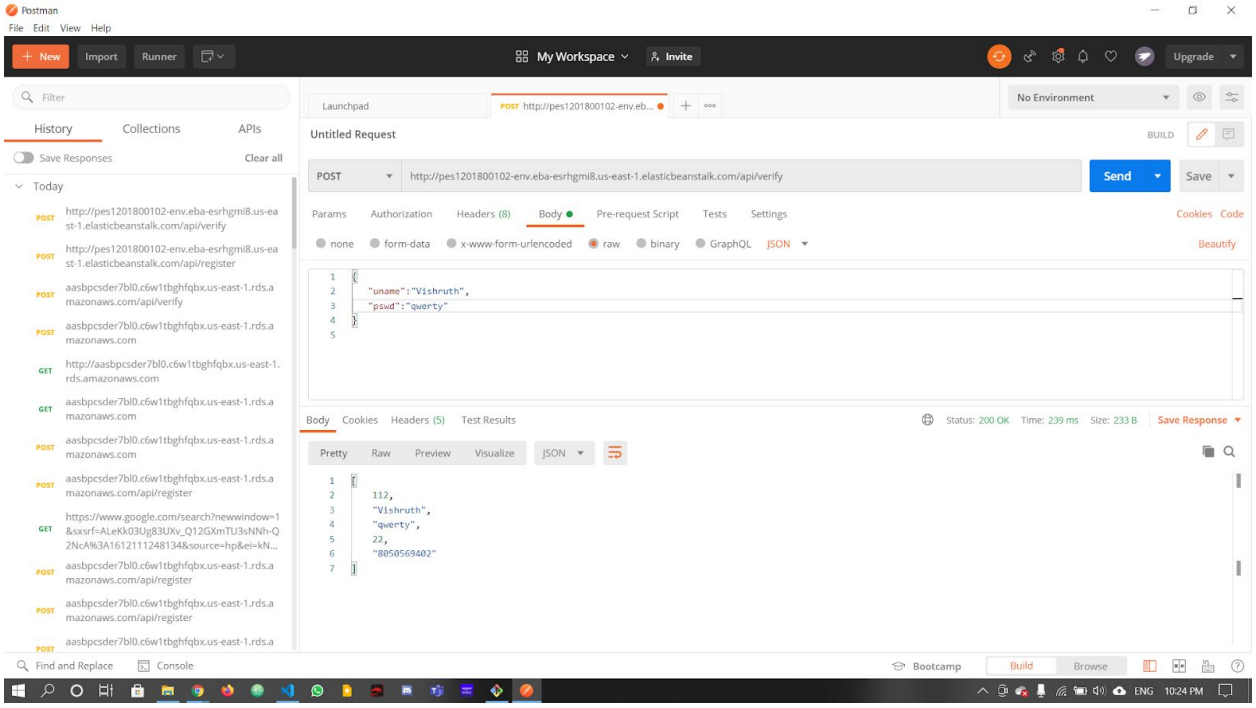
B2


RDS - AWS Console
Welcome
Deploying Flask Applic
Lab2-instructions.docx
Inbox - vishruthpreddy
Meet - uvw-xmmi
console.aws.amazon.com/rds/home?region=us-east-1#database:id=aasbpcsder7bl0;is-cluster=false
Amazon RDS
Dashboard
Databases
Query Editor
Performance Insights
Snapshots
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom Availability Zones
Events
Event subscriptions
Recommendations
Certificate update
Summary
DB identifier
aasbpcsder7bl0
CPU
2.17%
Status
Available
Class
db.t2.micro
Role
Instance
Current activity
0 Connections
Engine
MySQL Community
Region & AZ
us-east-1f
Connectivity & security
Monitoring
Logs & events
Configuration
Maintenance & backups
Tags
Endpoint & port
Endpoint
aasbpcsder7bl0.c6w1tbghfqbx.us-east-1.rds.amazonaws.com
Port
3306
Networking
Availability zone
us-east-1f
VPC
vpc-3d872040
Subnet group
default
Subnets
subnet-97b239f1
subnet-bbaa748a
subnet-b69b0a97
subnet-95ade09b
subnet-a11f8bfe
subnet-b83268f5
Security
VPC security groups
rds-awseb-e-mf5if7mcta-stack-awsebrdsdbsecuritygroup-1pur3gotd6uda-mch8 (sg-07548ab1d9662de9c)
(active)
Public accessibility
Yes
Certificate authority
rds-ca-2019
Certificate authority date
Aug 22nd, 2024
Security group rules (3)
https://console.aws.amazon.com/vpc/home?region=us-east-1#subnets:filter=subnet-a11f8bfe
09:14 PM

B3


Postman
File Edit View Help
New
Import
Runner
My Workspace
Invite
Upgrade
History
Collections
APIs
Clear all
Today
Launchpad
Untitled Request
No Environment
POST
http://pes1201800102-env.eba-esrhgmi8.us-east-1.elasticbeanstalk.com/api/register
Send
Save
Params
Authorization
Headers (8)
Body
Pre-request Script
Tests
Settings
Cookies
Code
none
form-data
x-www-form-urlencoded
raw
binary
GraphQL
JSON
Beautify
{
"uname":"Vishruth",
"pswd":"qwerty",
"age":22,
"mob": 8050569402
}
Body
Cookies
Headers (5)
Test Results
Status: 200 OK
Time: 591 ms
Size: 193 B
Save Response
Pretty
Raw
Preview
Visualize
JSON
{}
Find and Replace
Console
Bootcamp
Build
Browse
10:23 PM

B4


Postman
File Edit View Help
New
Import
Runner
My Workspace
Invite
Upgrade
Filter
History
Collections
APIs
Save Responses
Clear all
Today
http://pes1201800102-env.eba-esrhgmi8.us-east-1.elasticbeanstalk.com/api/verify
http://pes1201800102-env.eba-esrhgmi8.us-east-1.elasticbeanstalk.com/api/register
aasbpcsder7bl0.c6w1tbghfqbx.us-east-1.rds.amazonaws.com/api/verify
aasbpcsder7bl0.c6w1tbghfqbx.us-east-1.rds.amazonaws.com
http://aasbpcsder7bl0.c6w1tbghfqbx.us-east-1.rds.amazonaws.com
aasbpcsder7bl0.c6w1tbghfqbx.us-east-1.rds.amazonaws.com
aasbpcsder7bl0.c6w1tbghfqbx.us-east-1.rds.amazonaws.com
aasbpcsder7bl0.c6w1tbghfqbx.us-east-1.rds.amazonaws.com/api/register
https://www.google.com/search?newwindow=1&sxsrf=ALeKk03Ug83UXv_Q12GXmTU3sNNh-Q2NcA%3A1612111248134&source=hp&ei=kN...
aasbpcsder7bl0.c6w1tbghfqbx.us-east-1.rds.amazonaws.com/api/register
aasbpcsder7bl0.c6w1tbghfqbx.us-east-1.rds.amazonaws.com/api/register
aasbpcsder7bl0.c6w1tbghfqbx.us-east-1.rds.a
Launchpad
POST http://pes1201800102-env.eb...
No Environment
Untitled Request
BUILD
POST
http://pes1201800102-env.eba-esrhgmi8.us-east-1.elasticbeanstalk.com/api/verify
Send
Save
Params
Authorization
Headers (8)
Body
Pre-request Script
Tests
Settings
Cookies
Code
none
form-data
x-www-form-urlencoded
raw
binary
GraphQL
JSON
Beautify
{
"uname":"Vishruth",
"pswd":"qwerty"
}
Body
Cookies
Headers (5)
Test Results
Status: 200 OK
Time: 239 ms
Size: 233 B
Save Response
Pretty
Raw
Preview
Visualize
JSON
{
112,
"Vishruth",
"qwerty",
22,
"8050569402"
}
Find and Replace
Console
Bootcamp
Build
Browse
ENG
10:24 PM