

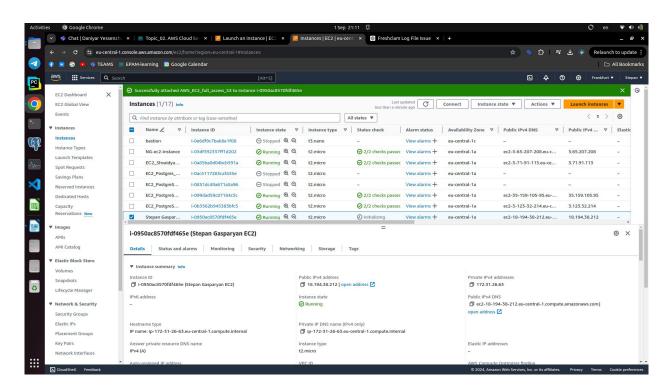
AWS Cloud Service EC2

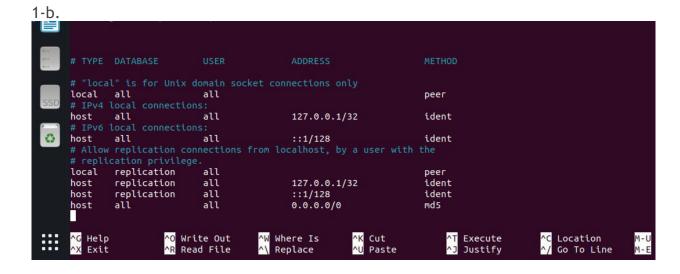
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1-a.

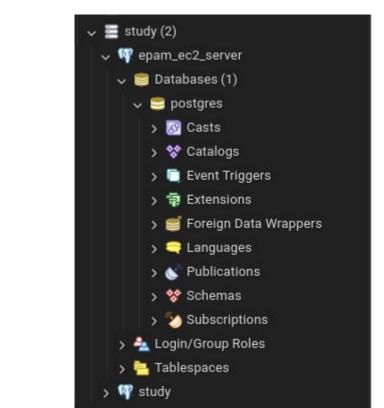




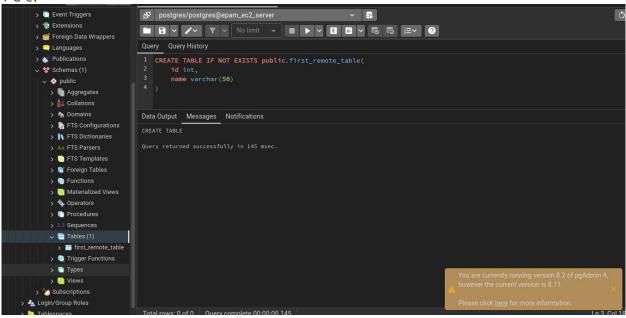
Business Template

1-c.

.



1-d-e.



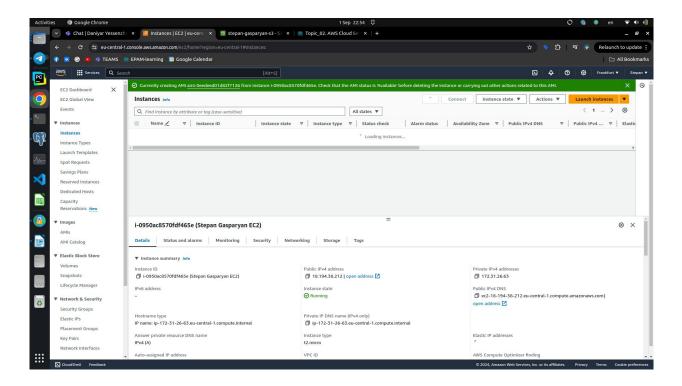


2. File copied

```
help
[ec2-user@lp-172-31-26-63 ~]$ aws s3 cp s3://stepan-gasparyan-s3/Retail_Sales/BL_DM/customers/dim_customers_scd.csv /home/ec2-user/
download: s3://stepan-gasparyan-s3/Retail_Sales/BL_DM/customers/dim_customers_scd.csv to ./dim_customers_scd.csv
[ec2-user@lp-172-31-26-63 ~]$
```

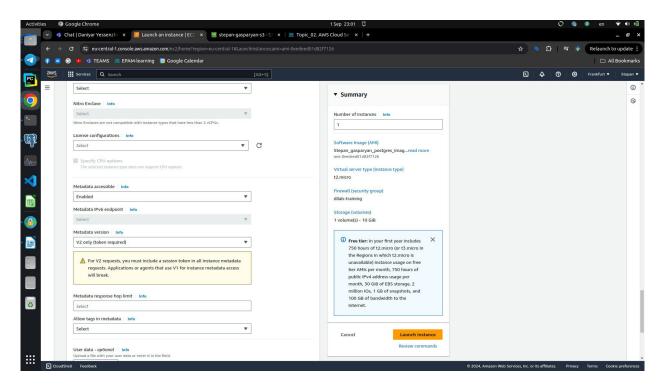
File in server

3. Creating AMI





4. AMI advanced settings `



5. Creating web page but not the first:)

Apache installed

```
## Active: active (running) since Sun 2024-09-01 19:08:44 UTC; 6s ago

Docs: man:httpd.service(s)

Main PID: 2938 (httpd)

Status: "Started, listening on: port 80"

Tasks: 177 (linit: 1112)

Memory: 13.0M

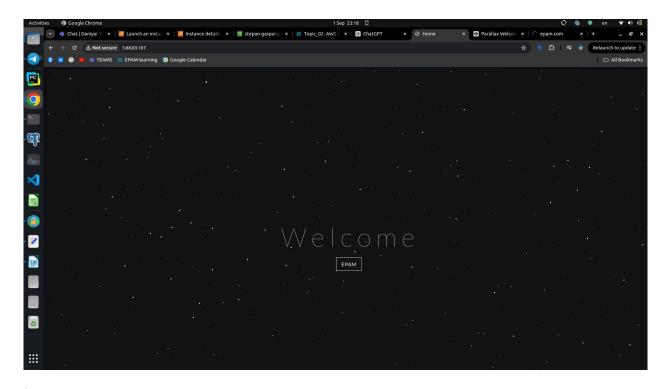
CPU: 66ns

CGroup: /system.slice/httpd.service

—2938 /usr/sbin/httpd -DFOREGROUND
—2939 /usr/sbin/httpd -DFOREGROUND
—2949 /usr/sbin/httpd -DFOREGROUND
—2942 /usr/sbin/httpd -DFOREGROUND
—2944 /usr/sbin/httpd -DFOREGROUND
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—2947 /usr/sbin/httpd -DFOREGROUND
—2948 /usr/sbin/httpd -DFOREGROUND
—2949 /usr/sbin/httpd -DFOREGROUND
—2940 /usr/sbin/httpd -DFOREGROUND
—2940
```

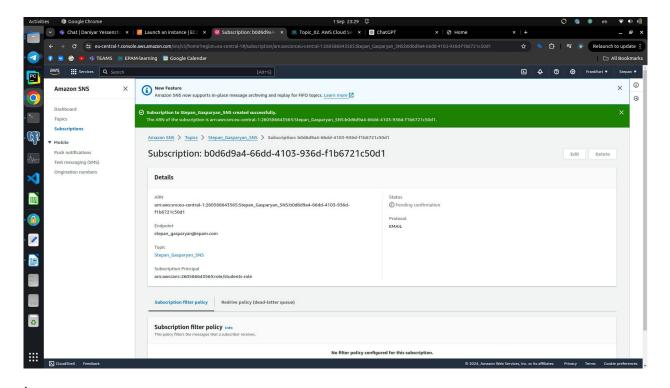


Web page ready



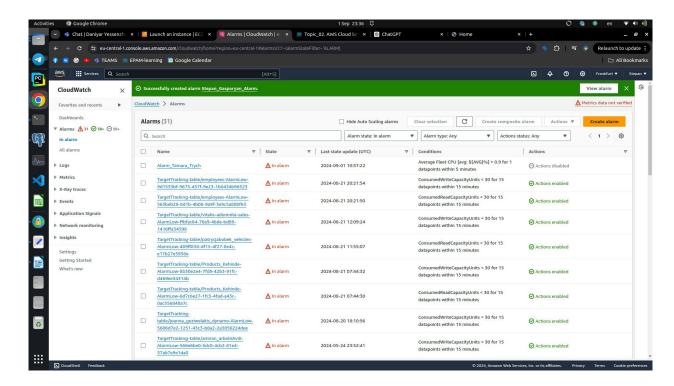
http://3.68.83.167/ is the link but unfortunetly it will not work as we need to stop instance

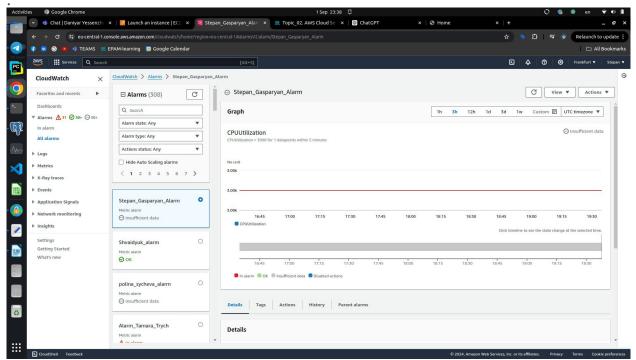
6.Creating SNS





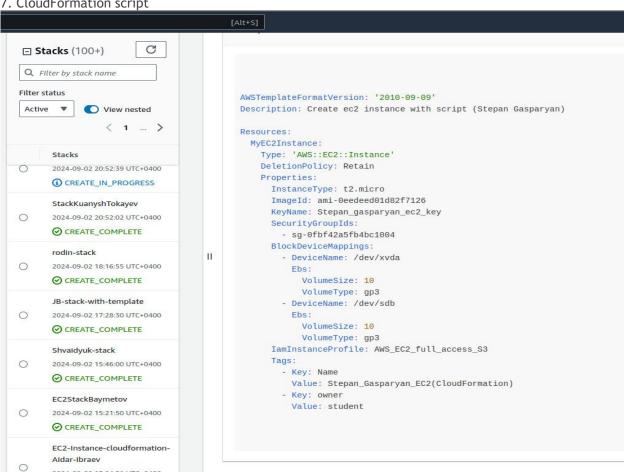
Cloud Watch Alarm created

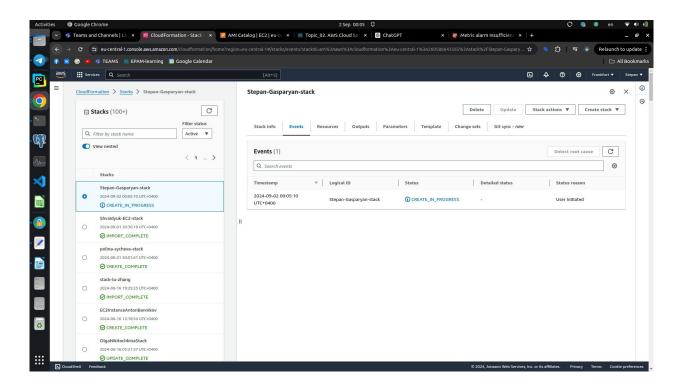


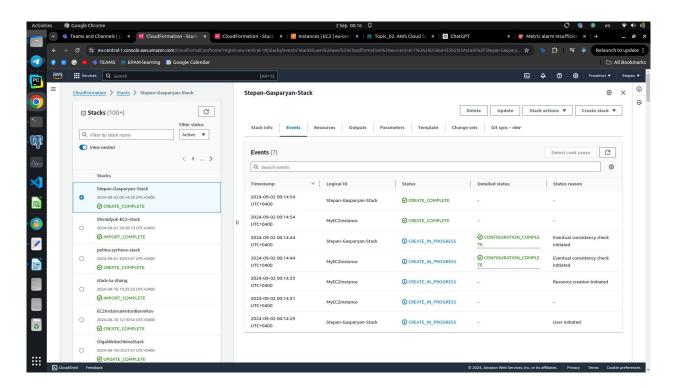




7. CloudFormation script







It created instance by script.



8-alnstalling docker

```
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS

3086/ebafla0 postgres docker-entrypoint.s." 6 minutes ago Up 5 seconds 0.0.0.0:5432->5432/tcp, :::5432->5432/tcp postgres_docker

[ec2-user@tp-12-31-26-63 -] 5 squi-version

see system logs and 'systement storp postgresql service' Access denied

see system logs and 'systement statup postgresql service' for details.

[ec2-user@tp-172-31-26-63 -] 5 sudo bocker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS

CONTAINER ID IMAGE OMNAND CREATED STATUS PORTS

CONTAINER ID IMAGE OMNAND CREATED STATUS PORTS

CONTAINER ID IMAGE OMNAND CREATED STATUS PORTS

CONTAINER ID IMAGE ONNAND CREATED STATUS PORTS

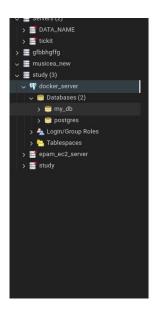
CONTAINER ID IMAGE COMNAND CREATED STATUS PORTS

CONTAINER ID IMAGE CONTAINER CREATED STATUS PORTS

CO
```

installed postgres in the docker container and allowed public access.

Connected to db`



8-b. Bash script to run sql command.

```
CONTAINER_NAME="postgres_docker"

DB_USER="postgres"

DB_NAME="postgres"

SQL_QUERY="SELECT current_date"

docker exec -i $CONTAINER_NAME psql -U $DB_USER -d $DB_NAME -c "$SQL_QUERY"
```

Tested manually, it works.

Cron scheduled to execute query.sh every minute

```
[ec2-user@ip-172-31-26-63 ~]$ sudo systemctl start crond # For Amazon Linux, CentOS, etc.
[ec2-user@ip-172-31-26-63 ~]$ sudo systemctl enable crond
[ec2-user@ip-172-31-26-63 ~]$ crontab -l
no crontab for ec2-user
[ec2-user@ip-172-31-26-63 ~]$ crontab -e
no crontab for ec2-user - using an empty one crontab: no changes made to crontab
[ec2-user@ip-172-31-26-63 ~]$ pwd
/home/ec2-user
[ec2-user@ip-172-31-26-63 ~]$ ls
dim_customers_scd.csv query.sh
[ec2-user@ip-172-31-26-63 ~]$ ^C
[ec2-user@ip-172-31-26-63 ~]$ crontab -e
no crontab for ec2-user - using an empty one crontab: installing new crontab
[ec2-user@ip-172-31-26-63 ~]$ crontab -e
crontab: no changes made to crontab
[ec2-user@ip-172-31-26-63 ~]$ tail -f /path/to/logfile.log tail: cannot open '/path/to/logfile.log' for reading: No such file or directory
tail: no files remaining
[ec2-user@ip-172-31-26-63 ~]$ touch logfile.log
[ec2-user@ip-172-31-26-63 ~]$ tail -f /path/to/logfile.log
tail: cannot open '/path/to/logfile.log' for reading: No such file or directory
tail: no files remaining
[ec2-user@ip-172-31-26-63 ~]$ tail -f logfile.log
 current_date
 2024-09-02
(1 row)
[ec2-user@ip-172-31-26-63 ~]$ ^C
[ec2-user@ip-172-31-26-63 ~]$ tail -f logfile.log
 current_date
 2024-09-02
(1 row)
^[[A^C
[ec2-user@ip-172-31-26-63 ~]$ tail -f logfile.log
 current_date
 2024-09-02
(1 row)
 current_date
 2024-09-02
(1 row)
```