Task 1

I did everything as it was in the video material. I created instance with size of 8GB and had so many problems because of the security group, after long time I specified correct security group for my task and also I enable metadata. then I installed PostgreSQL using putty and some big and kinda scary commands. for that I had to change the localhost and also had to change the listening_address because as i understood its only listening address was localhosts address. I changed it with * and after that I tried to connect DBeaver with my host but unfortunately it was not connecting.I tried to find reasons and after 1 whole day I found out that I had to delete '#' while i was changing listen address. after that when I specified my local DNS in host name and wrote the password it connected with Dbeaver with no problem.
I created teacher table there,then created view which returns two columns from the table. first one is concatenation of teachers first and last name and second one is salary. after that I created procedure which sums up all teachers salary together.

```
create table if not exists public.teacher(
    teacher_id serial,
    teacher_name varchar not null,
    teacher_surname varchar not null,
    salary integer not null,
    constraint teacher_pk  primary key(teacher_id)
 );


create  or replace view  teacher_view as(
    select
        teacher_name || teacher_surname as "teacher_name",
        salary
    from  public.teacher

 );

create or replace procedure teacher_function()
 language plpgsql
 as $$
 declare
    whole_salary int :=0;
    rec record;
begin
        for  rec in select salary from public.teacher loop
            whole_salary=whole_salary+rec.salary;
        end loop;
    raise notice 'total_salary= %',whole_salary;
 end;
 $$;
```

Task 2

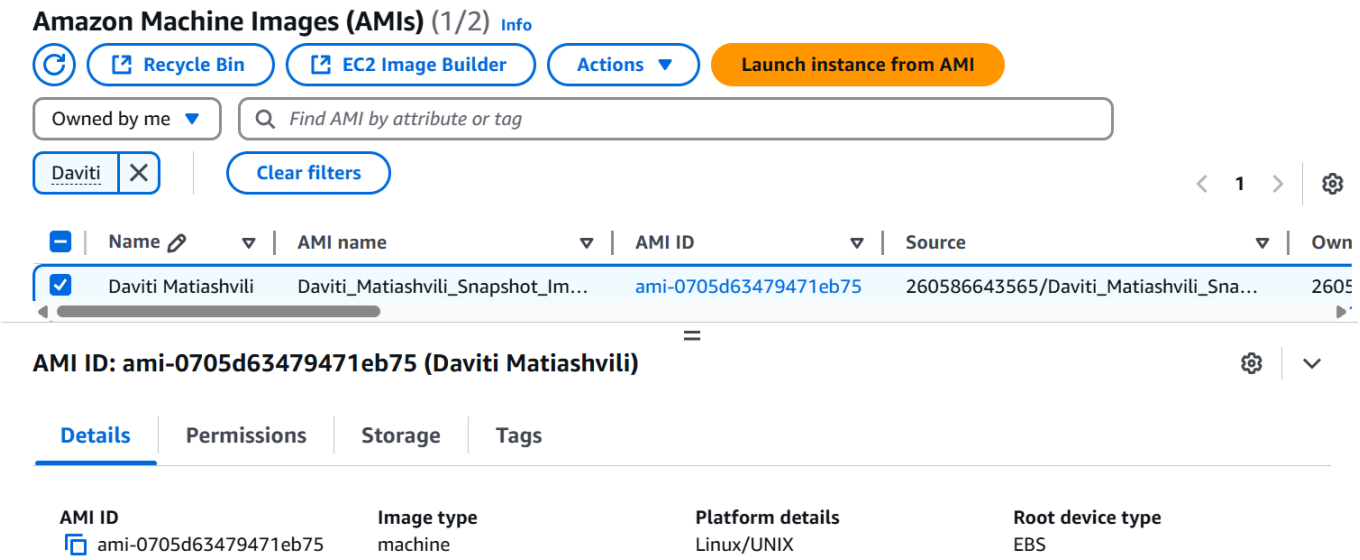
I took last homeworks report file from my S3 bucket and I put it into the my EC2 instance. using

putty and some commands:

```
[ec2-user@ip-172-31-40-109 ~]$ aws s3 cp  "s3://davitimatiashvili-bucket/aws_mod
ule_task_1 daviti matiashvili.docx" /home/ec2-user/
download: s3://davitimatiashvili-bucket/aws_module_task_1 daviti matiashvili.doc
x to ./aws_module_task_1 daviti matiashvili.docx
[ec2-user@ip-172-31-40-109 ~]$ ls /home/ec2-user/
aws_module_task_1 daviti matiashvili.docx
[ec2-user@ip-172-31-40-109 ~]$
```

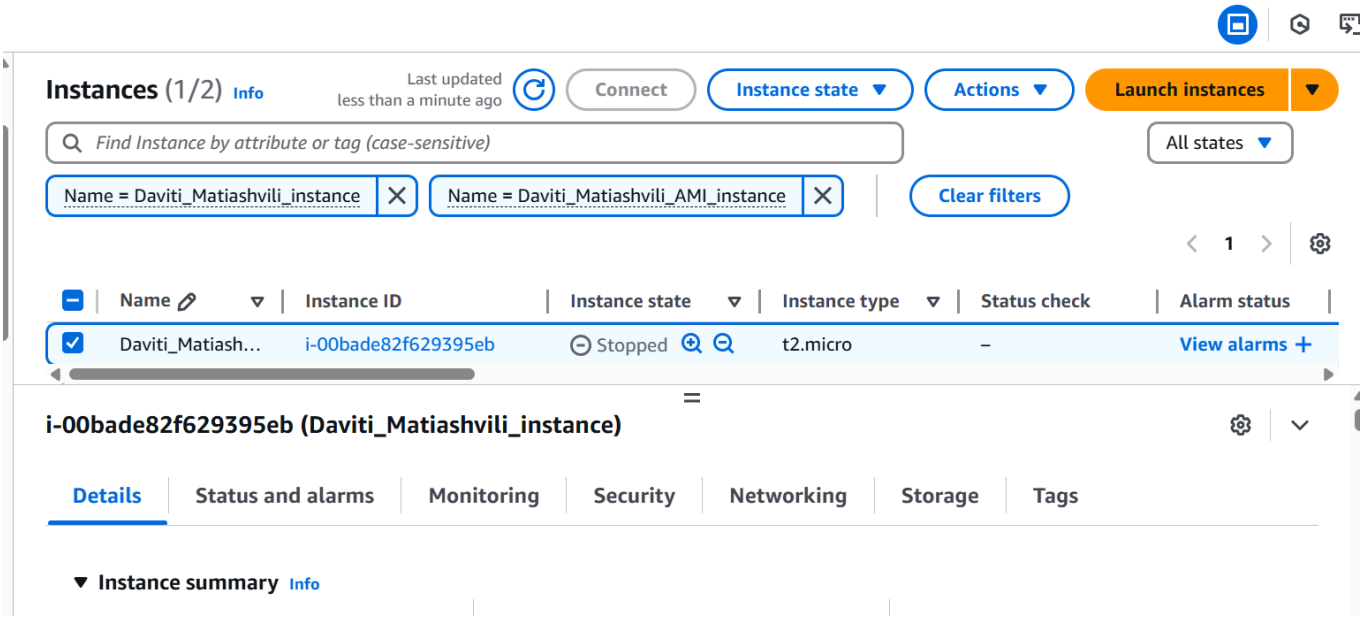
Task 3

I found my volume which was created from my EC2 instance and after that I created its snapshot,after that I went to created snapshot and created image AMI from it and basically it is the copy of my EC2 machine.



Task 4

I created it and specified that metadata is enabled and also it is V2 version.



Task 5
I created website by using these commands

sudo yum install -y httpd
sudo systemctl start httpd
sudo systemctl enable httpd
cd /var/www/html
sudo nano index.html
after that i wrote simple html code and then restarted it
sudo systemctl restart httpd
and then I just went to the link and it opened with no problem. here is the link-http://ec2-3-74-46-56.eu-central-1.compute.amazonaws.com/

Sorry for missing deadline

task 6
I created alarm here are the steps how I did it
at first i went to sns and created standard type topic after that I created subscription for that topic and wrote my email in endpoint panel. after that i confirmed that subscription with my email. after that i went to cloudwatch and created alarm there,it is per instance metric and metric is cpuutilization. itt threshold type is static and whenever the cpu exceeds the 50% SNS notification will be sent to my email.

task 7-

script for yaml file:

AWSTemplateFormatVersion: '2010-09-09'

```
Resources:
EC2Instance:
Type: "AWS::EC2::Instance"
Properties:
InstanceType: t2.micro
ImageId: ami-0705d63479471eb75
KeyName: EC2_serverkey
SecurityGroupIds:
- sg-0c9e0944abff93553
SubnetId: subnet-0c89352cd5627960b
Tags:
- Key: Name
Value: Daviti
- Key: owner
Value: Matiashvili
DeletionPolicy: Retain
```