

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 localhost's 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.

Amazon Machine Images (AMIs) (1/2) [Info](#)

[Recycle Bin](#) [EC2 Image Builder](#) [Actions](#) [Launch instance from AMI](#)

Owned by me

[Daviti](#) [Clear filters](#)

Name	AMI name	AMI ID	Source	Own
<input checked="" type="checkbox"/> Daviti Matiashvili	Daviti_Matiashvili_Snapshot_Im...	ami-0705d63479471eb75	260586643565/Daviti_Matiashvili_Sna...	2605

AMI ID: ami-0705d63479471eb75 (Daviti Matiashvili)

[Details](#) [Permissions](#) [Storage](#) [Tags](#)

AMI ID	Image type	Platform details	Root device type
ami-0705d63479471eb75	machine	Linux/UNIX	EBS

Task 4

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

Instances (1/2) [Info](#) Last updated less than a minute ago [Connect](#) [Instance state](#) [Actions](#) [Launch instances](#)

[All states](#)

[Name = Daviti_Matiashvili_instance](#) [Name = Daviti_Matiashvili_AMI_instance](#) [Clear filters](#)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
<input checked="" type="checkbox"/> Daviti_Matiash...	i-00bade82f629395eb	Stopped	t2.micro	-	View alarms +

i-00bade82f629395eb (Daviti_Matiashvili_instance)

[Details](#) [Status and alarms](#) [Monitoring](#) [Security](#) [Networking](#) [Storage](#) [Tags](#)

▼ [Instance summary](#) [Info](#)

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. it's 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

Daviti-Matiashvili-stack



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CREATE_COMPLETE