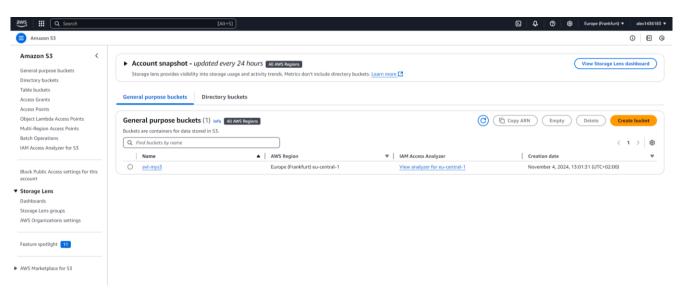
Homework_Lesson31_Report

Задание:

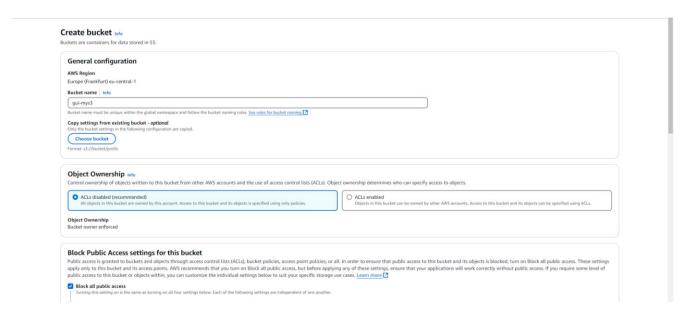
- "1. Создайте новый бакет Amazon S3/GCP Cloud Storage тремя способами: через GUI (консоль в браузере), с помощью CLI, конфиг в terraform.
- 2. Создайте Amazon EC2/GCP Compute Engine и настройте масштабирование, чтобы автоматически добавлять новые экземпляры в случае увеличения нагрузки. Сделайте это тремя способами: через GUI (консоль в браузере) с помощью CLI, конфиг в terraform.
- 3.* Создайте базу через GUI (консоль в браузере), с помощью CLI, конфиг в terraform данных Amazon RDS/GCP CloudSQL и подключитесь к ней из виртуальной машины, которую вы создали ранее. Сделайте это тремя способами: через GUI (консоль в браузере) с помощью CLI, конфиг в terraform."

Задание 1

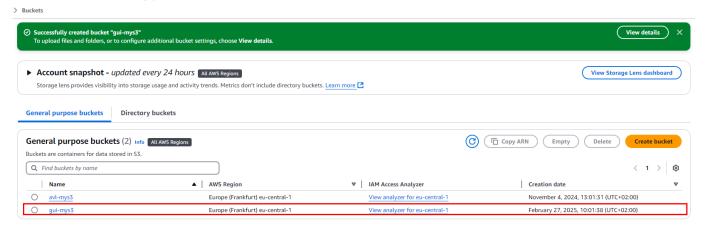
Создайте новый бакета через GUI. Заходим в AWS S3 и нажимем Create bucket.



Заполяем имя бакета и необходимые нам параметры и нажимаем Create bucket.



Новый бакет создан.

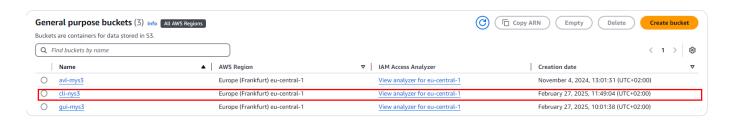


Создадим через CLI

CLI у нас уже установлен и сконфигурирован.

```
C:\Windows\system32>aws s3api create-bucket --bucket cli-nys3 --create-bucket-co
nfiguration LocationConstraint=eu-central-1
{
"Location": "http://cli-nys3.s3.amazonaws.com/"
}
```

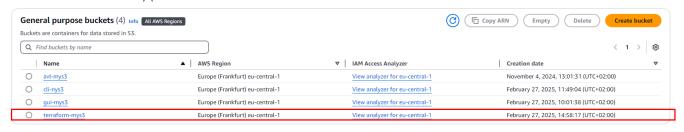
Новый бакет создан.



Создаем с помощью терформа. Конфиг тераформа прикреплен отдельно.

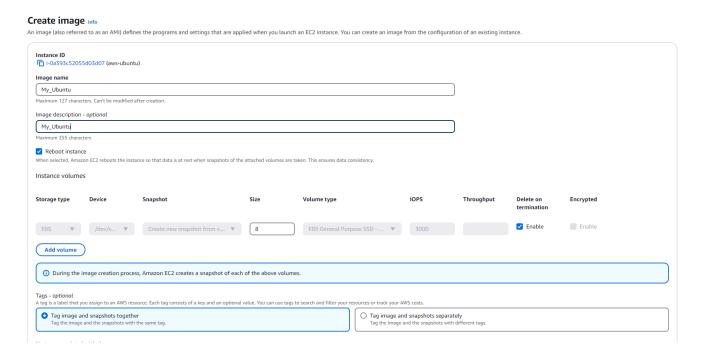
```
PS D:\Terraform> terraform apply
erraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
  + create
Terraform will perform the following actions:
 # aws_s3_bucket.my_bucket will be created
+ resource "aws_s3_bucket" "my_bucket" {
+ acceleration_status = (known_status)
                                        = (known after apply)
                                                = (known after apply)
                                               = (known after apply)
= "terraform-mys3"
         bucket
         bucket = cerrunorm myss
bucket_domain_name = (known after apply)
bucket_prefix = (known after apply)
         bucket_regional_domain_name = (known after apply)
bucket_regional_domain_name = (known after apply)
         bucket_regional_nomali_name = (known after apply)
force_destroy = false
hosted_zone_id = (known after apply)
id = (known after apply)
object_lock_enabled = (known after apply)
policy = (known after apply)
       + id
                                             = (known after apply)
= (known after apply)
= (known after apply)
          region
       + request_payer
+ tags_all
        website_domain
website
                                                = (known after apply)
       + website_endpoint
                                              = (known after apply)
       + cors rule (known after apply)
      + grant (known after apply)
      + lifecycle_rule (known after apply)
      + logging (known after apply)
      + object_lock_configuration (known after apply)
      + replication_configuration (known after apply)
      + server_side_encryption_configuration (known after apply)
      + versioning (known after apply)
         website (known after apply)
lan: 1 to add, 0 to change, 0 to destroy.
```

Новый бакет создан.

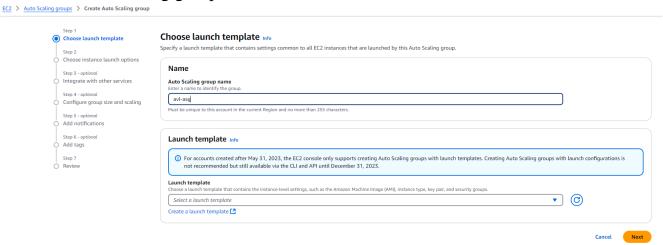


Задание 2

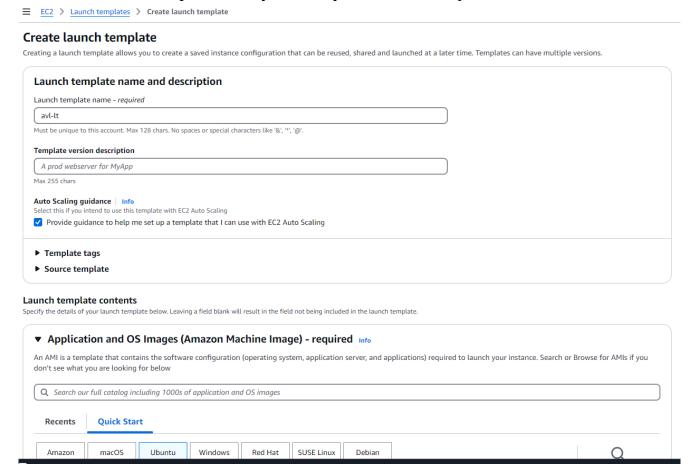
Инстенс на EC 2 у сзданный через GUI уже есть. Зайдем в него и нажемем Actions > Image and Templates > Create Image и создадим image нашей машины.



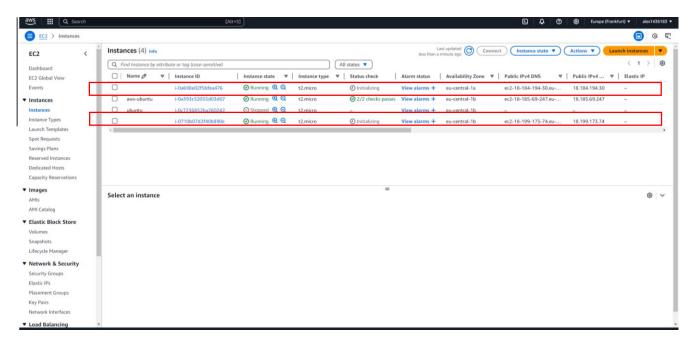
Создаем Auto Scaling group.



Создаем Launch template если у нас нету подходящего ранее созданного.

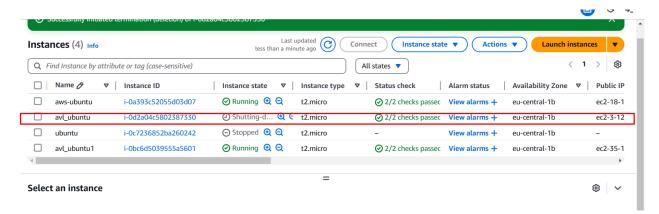


По итогу создания Auto Scaling group у нас запустилось 2 истенса так как мы указали при создании Desired capacity 2.

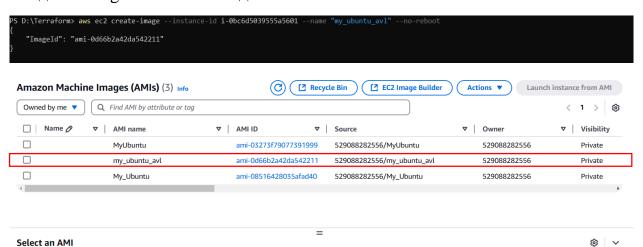


Создаем с помощью CLI Интстанс.

```
## Development on a color interaction issue if and setting the property of th
```



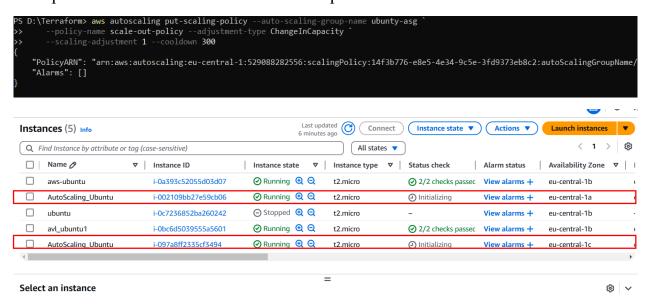
Создаем Image на основе созданного Instance.



Создаём Auto Scaling Group. Пропустил скрин создания в CLI Launch Template.

```
PS D:\Terraform> aws autoscaling create-auto-scaling-group --auto-scaling-group-name ubunty-asg `
--launch-template "LaunchTemplateName=my-ubuntu-tem,Version=1" `
--min-size 1 --max-size 2 --desired-capacity 2 `
--vpc-zone-identifier "subnet-03207db2b91a2a05e,subnet-00669df1cc78cf133"
```

Настраиваем автоматическое масштабирование.



Приступим к выполнению в терраформе. Конфиг тераформа прикреплен отдельно.

```
PS D:\Terraform\TEC2> terraform apply
wws_instance.avl_ubuntu1: Refreshing state... [id=i-0f6e10588573c812a]
erraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
 /+ destroy and then create replacement
erraform will perform the following actions:
 # aws_ami_from_instance.my_ubuntu_1 will be created
+ resource "aws_ami_from_instance" "my_ubuntu_1" {
+ architecture = (known after apply)
+ arn = (known after apply)
          boot mode
                                          = (known after apply)
= (known after apply)
          ena_support
          hypervisor
                                               (known after apply)
                                           = (known after apply)
          image\_location
          image_owner_alias
image_type
                                          = (known after apply)
                                               (known after apply)
          imds support
                                          = (known after apply)
= (known after apply)
          name = (known after apply)
name = "MyUbuntu_1"
owner_id = (known after apply)
platform = (known after apply)
platform_details = (known after apply)
public = (known after apply)
sumblic = (known after apply)
          ramdisk_id
root_device_name
                                          = (known after apply)
= (known after apply)
          root_snapshot_id
source_instance_id
                                              (known after apply)
(known after apply)
           sriov_net_support
                                               (known after apply)
          tags_all
tpm_support
                                           = (known after apply)
                                              (known after apply)
          uefi data
                                           = (known after apply)
          usage_operation = (known after apply)
virtualization_type = (known after apply)
          ebs block device (known after apply)
          ephemeral_block_device (known after apply)
```

