

Homework_Lesson32_Report

1. Создайте экземпляр EC2/CE и прикрепите к нему EBS-том/SSD. На выбор terraform, cli, python boto3, python google
2. Настройте доступ к экземпляру через SSH. Доступ должен работать с вашего хоста.
3. Создайте бакет Amazon S3 и загрузите в него несколько файлов. На выбор terraform, cli, python boto3, python google
- 4.* Создайте экземпляр базы данных RDS/CloudSQL и настройте доступ к нему.
- 5.* Создайте резервную копию базы данных и восстановите ее на новый экземпляр RDS"

Запускаем конфиг терраформа.

```
+ content_type      = (known after apply)
+ etag              = (known after apply)
+ force_destroy     = false
+ id                = (known after apply)
+ key               = "Новый текстовый документ.txt"
+ kms_key_id        = (known after apply)
+ server_side_encryption = (known after apply)
+ source            = "/upload/Новый текстовый документ.txt"
+ storage_class      = (known after apply)
+ tags_all          = (known after apply)
+ version_id        = (known after apply)
}

# aws_volume_attachment.ebs_attach will be created
+ resource "aws_volume_attachment" "ebs_attach" {
+   device_name = "/dev/xvdf"
+   id          = (known after apply)
+   instance_id = (known after apply)
+   volume_id   = (known after apply)
+ }

Plan: 7 to add, 0 to change, 0 to destroy.

Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.

  Enter a value: yes

aws_key_pair.ec2_ssh_key: Creating...
aws_s3_bucket.my_bucket: Creating...
aws_key_pair.ec2_ssh_key: Creation complete after 0s [id=terra_key]
aws_instance.av1_ec2: Creating...
aws_s3_bucket.my_bucket: Creation complete after 2s [id=my-s3-terraform-av1]
aws_s3_object.my_files["Новый текстовый документ.txt"]: Creating...
aws_s3_object.my_files["123.txt"]: Creating...
aws_s3_object.my_files["Новый текстовый документ.txt"]: Creation complete after 1s [id=Новый текстовый документ.txt]
aws_s3_object.my_files["123.txt"]: Creation complete after 1s [id=123.txt]
aws_instance.av1_ec2: Still creating... [10s elapsed]
aws_instance.av1_ec2: Creation complete after 14s [id=i-0092db013a6a9b719]
aws_ebs_volume.my_ebs: Creating...
aws_ebs_volume.my_ebs: Still creating... [10s elapsed]
aws_ebs_volume.my_ebs: Creation complete after 10s [id=vol-0ebad460e8a0d3112]
aws_volume_attachment.ebs_attach: Creating...
aws_volume_attachment.ebs_attach: Still creating... [10s elapsed]
aws_volume_attachment.ebs_attach: Still creating... [20s elapsed]
aws_volume_attachment.ebs_attach: Creation complete after 21s [id=vai-628727163]

Apply complete! Resources: 7 added, 0 changed, 0 destroyed.
PS D:\Terraform\Cloud2>
```

Созданный instance EC2.

Instances (1/3) info									
Find Instance by attribute or tag (case-sensitive)									
All states									
<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4
<input checked="" type="checkbox"/>	terraform-ubuntu24	i-0092db013a6a9b719	Running	t2.micro	2/2 checks passed	View alarms +	eu-central-1a	ec2-3-65-218-113.eu-c...	3.65.218.113
<input type="checkbox"/>	aws-ubuntu	i-0a393c52055d03d07	Running	t2.micro	2/2 checks passed	View alarms +	eu-central-1b	ec2-18-185-69-247.eu-...	18.185.69.247
<input type="checkbox"/>	ubuntu	i-0c7236852ba260242	Stopped	t2.micro	-	View alarms +	eu-central-1b	-	-

Подключаемся к созданной нами машине по SSH.

```
• MobaXterm Personal Edition v24.3 •
(SSH client, X server and network tools)

► SSH session to ubuntu@3.65.218.113
• Direct SSH      : ✓
• SSH compression : ✓
• SSH-browser     : ✓
• X11-forwarding  : ✓ (remote display is forwarded through SSH)

► For more info, ctrl+click on help or visit our website.

Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-1021-aws x86_64)

* Documentation: https://help.ubuntu.com
* Management:   https://landscape.canonical.com
* Support:      https://ubuntu.com/pro

System information as of Thu Mar  6 08:08:06 UTC 2025

System load:  0.0          Processes:      110
Usage of /:   19.6% of 8.65GB Users logged in:    0
Memory usage: 22%         IPv4 address for enx0: 172.31.19.58
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

Last login: Tue Mar  4 14:09:26 2025 from 109.248.148.10
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-19-58:~$
```

Проверяем загрузку файлов в созданный нами бакет.

my-s3-terraform-avl [Info](#)

Objects

PropertiesPermissionsMetricsManagementAccess Points

Objects (2)

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

< 1 >

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	123.txt	txt	March 4, 2025, 16:44:00 (UTC+03:00)	0 B	Standard
<input type="checkbox"/>	Новый текстовый документ.txt	txt	March 4, 2025, 16:44:00 (UTC+03:00)	0 B	Standard