

EPAM University Programs DevOps external course Module 2 Virtualization and Cloud Basic TASK 2.3

1. Ознайомтесь з умовами безкоштовного використання AWS Free Tier

https://docs.aws.amazon.com/en_us/awsaccountbilling/latest/aboutv2/billing-free-tier.html та можливостями контролю власних витрат.

The screenshot shows an AWS bill statement for March 2020. The total estimated charge is \$0.23. The breakdown includes Data Transfer (\$0.00), Elastic Compute Cloud (\$0.23), EU (Paris) (\$0.23), EBS (\$0.23), Key Management Service (\$0.00), and Simple Storage Service (\$0.00). The EBS section details usage of 714.363 Hrs at \$0.00 per Linux t2.micro instance-hour under monthly free tier, resulting in charges for 15.548 GB-Mo, 1.000 GB-Mo, and 4.344 GB-Mo.

AWS Service Charges	\$0.23
Data Transfer	\$0.00
Elastic Compute Cloud	\$0.23
EU (Paris)	\$0.23
Amazon Elastic Compute Cloud running Linux/UNIX	\$0.00
\$0.00 per Linux t2.micro instance-hour (or partial hour) under monthly free tier	714.363 Hrs
EBS	\$0.23
\$0.00 per GB-month of General Purpose (SSD) provisioned storage under monthly free tier	15.548 GB-Mo
\$0.00 per GB-Month of snapshot data stored under monthly free tier	1.000 GB-Mo
\$0.053 per GB-Month of snapshot data stored	4.344 GB-Mo
Key Management Service	\$0.00
Simple Storage Service	\$0.00

Usage and recurring charges for this statement period will be charged on your next billing date. Estimated charges shown on this page, or shown on any notifications that we send to you, may differ from your actual charges for this statement period. This is because estimated charges presented on this page do not include usage charges accrued during this statement period after the date you view this page. Similarly, information about estimated charges sent to you in a notification do not include usage charges accrued during this statement period after the date we send you the notification. One-time fees and subscription charges are assessed separately from usage and reoccurring charges, on the date that they occur.

2. Перегляньте 10-хвилинний приклад Launch a Linux Virtual Machine.

https://aws.amazon.com/getting-started/tutorials/launch-a-virtual-machine/?trk=gs_card. Повторити дії, створити власну VM в хмарі AWS та підключитись до неї. Рекомендовано використати інстанс t2.micro та операційну систему CentOS.

Name	Instance ID	Instance Type	Availability Zone	Instance Status	Status Checks	Alarm State	Public DNS (IPv4)	IPv4 Public IP	IPv6 IPs	Key Name	Monitoring	Launch Time	Security Groups	Owner
i-01f6848a92302884d		t2.micro	eu-west-3b	running	2/2 checks passed	None	ec2-35-180-228-32.	35.180.228.32	-	key-test-3	disabled	March 23, 2020 at 3:51:33 PM UTC+2 (186 hours)	Firewall-HTTP-HTTPS-SSH, view inbound rules, view outbound rules	40957021...
Instance: i-01f6848a92302884d Public DNS: ec2-35-180-228-32.eu-west-3.compute.amazonaws.com														
Description	Status Checks	Monitoring	Tags	Usage Instructions										
Instance ID	i-01f6848a92302884d						Public DNS (IPv4)	ec2-35-180-228-32.eu-west-3.compute.amazonaws.com						
Instance state	running						IPv4 Public IP	35.180.228.32						
Instance type	t2.micro						IPv6 IPs	-						
Finding	Opt-in to AWS Compute Optimizer for recommendations. Learn more						Elastic IPs	-						
Private DNS	ip-172-31-31-42.eu-west-3.compute.internal						Availability zone	eu-west-3b						
Private IPs	172.31.31.42						Security groups	Firewall-HTTP-HTTPS-SSH, view inbound rules, view outbound rules						
Secondary private IPs							Scheduled events	No scheduled events						
VPC ID	vpc-010f3e68						AMI ID	Centos 7Basic system setup (ami-00f94e86f98d2495c)						
Subnet ID	subnet-54ef842f						Platform details	-						
Network interfaces	eth0						Usage operation	-						
IAM role	-						Source/dest. check	True						
Key pair name	key-test-3993						T2/T3 Unlimited	Disabled						
Owner	409570218504						EBS-optimized	False						
Launch time	March 23, 2020 at 3:51:33 PM UTC+2 (186 hours)						Root device type	efs						
Termination protection	False						Root device	/dev/sda1						
Lifecycle	Normal						Block devices	/dev/sda1						
Monitoring	basic						Capacity Reservation	-						
Alarm status	None						Capacity Reservation Settings	Open						
Kernel ID	-						Outpost Arn	-						
RAM disk ID	-													
Placement group	-													
Partition number	-													
Virtualization	hvm													
Reservation	r-094e78323468fe128													
AMI launch index	0													
Tenancy	default													
Host ID	-													
Affinity	-													
State transition	-													
State transition reason	-													
Stop - Hibernation behavior	Disabled													
Number of vCPUs	1													

3. Перегляньте 10-хвилинний приклад Store and Retrieve a File

https://aws.amazon.com/getting-started/tutorials/backup-files-to-amazon-s3/?trk=gs_card. Повторити дії, створивши власне сховище.

Name	Region	Access	Bucket created
tertyshnyi-task2.3	EU (Paris) eu-west-3	Not Public	2020-03-31T08:31:54.000Z

4. Перегляньте 10-хвилинний приклад <https://aws.amazon.com/ru/getting-started/tutorials/launch-a-wordpress-website/>. Повторити дії, створити власний сайт.

5. Перегляньте 10-хвилинний приклад <https://aws.amazon.com/ru/getting-started/tutorials/get-a-domain/>. Вивчити можливості створення власного домену та доменного імені для свого сайту.

Choose a domain name

TertyshnyiBohdan

.com - \$12.00

Availability for 'tertyshnyibohdan.com'

Domain Name	Status	Price /1 Year	Action
tertyshnyibohdan.com	Available	\$12.00	Add to cart

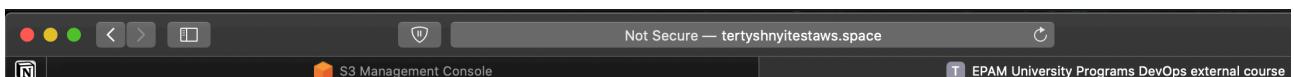
6. Перегляньте 10-хвилинний приклад <https://aws.amazon.com/ru/getting-started/tutorials/backup-to-s3-cli/>. Створити користувача AWS IAM, налаштувати CLI AWS та завантажити будь-які файли в S3.

```
[centos@ip-172-31-31-42 ~]$ aws s3 cp /EPAM/EPAM/homework_2.2/task2_2.pdf s3://my-first-backup-bucket-tertyshnyi/upload: ../../EPAM/EPAM/homework_2.2/task2_2.pdf to s3://my-first-backup-bucket-tertyshnyi/task2_2.pdf
[centos@ip-172-31-31-42 ~]$
```

7. Створити статичний сайт в S3, доступний публічно.
Розмістити на сторінці власне
фото, назву тренінга та перелік сервісів AWS з якими
працював студент в межах тренінгу чи раніше

Back to Hosted Zones Create Record Set Import Zone File Delete Record Set Test Record Set					
Record Set Name		Any Type	<input type="checkbox"/> Aliases Only	<input type="checkbox"/> Weighted Only	
Name	Type	Value			
tertyshnyitestaws.space.	A	ALIAS s3-website.eu-west-3.amazonaws.com	No	-	
		ns-806.awsdns-36.net.			
tertyshnyitestaws.space.	NS	ns-1079.awsdns-06.org.	-	-	172800
		ns-429.awsdns-53.com.			
		ns-1759.awsdns-27.co.uk.			
tertyshnyitestaws.space.	SOA	ns-806.awsdns-36.net. awsdns-hostmaster.a	-	-	900
www.tertyshnyitestaws.space.	A	ALIAS s3-website.eu-west-3.amazonaws.com	No	-	

Buckets (3)					Create bucket
<input type="text"/> Find bucket by name					
Name	Region	Access	Bucket created		
logs.tertyshnyitestaws.space	EU (Paris) eu-west-3	Not Public	2020-04-03T12:50:36.000Z		
tertyshnyitestaws.space	EU (Paris) eu-west-3	Public	2020-04-03T12:46:37.000Z		
www.tertyshnyitestaws.space	EU (Paris) eu-west-3	Not Public	2020-04-03T12:46:50.000Z		



EC2 S3 Route53 IAM

