

EPAM University Programs

DevOps external course

Module 2 Virtualization and Cloud Basic

TASK 2.

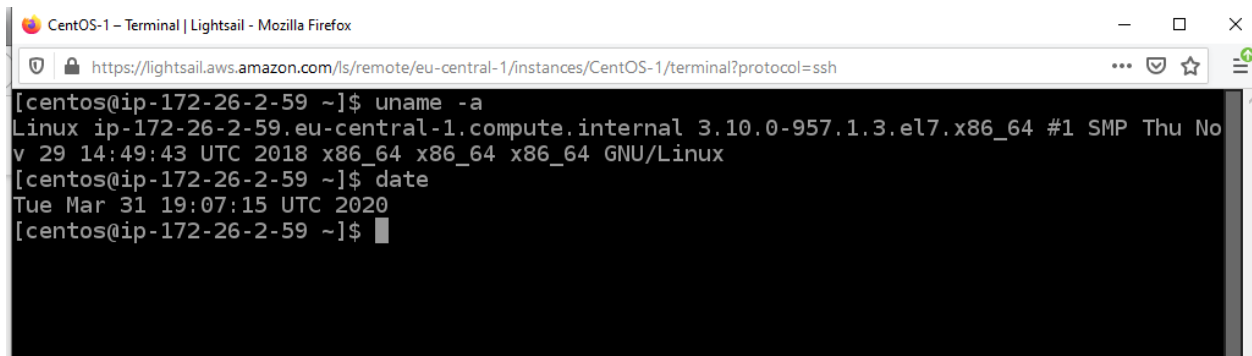
1.

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 витр

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.



The screenshot shows a terminal window titled "CentOS-1 - Terminal | Lightsail - Mozilla Firefox". The address bar displays the URL "https://lightsail.aws.amazon.com/ls/remote/eu-central-1/instances/CentOS-1/terminal?protocol=ssh". The terminal output is as follows:

```
[centos@ip-172-26-2-59 ~]$ uname -a
Linux ip-172-26-2-59.eu-central-1.compute.internal 3.10.0-957.1.3.el7.x86_64 #1 SMP Thu Nov 29 14:49:43 UTC 2018 x86_64 x86_64 x86_64 GNU/Linux
[centos@ip-172-26-2-59 ~]$ date
Tue Mar 31 19:07:15 UTC 2020
[centos@ip-172-26-2-59 ~]$
```

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 схови

lab2.3

Overview

Properties

Permissions

Management

Access points


🔍 Type a prefix and press Enter to search. Press ESC to clear.

Upload

+ Create folder

Download

Actions ▾

<input type="checkbox"/>	Name ▾	Last modified ▾	Size ▾
<input type="checkbox"/>	 wd1GB_1.png	Mar 31, 2020 10:35:02 PM GMT+0300	108.9 KB

lab2.3

Overview

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🔍 Type a prefix and press Enter to search. Press ESC to clear.

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Actions ▾

<input checked="" type="checkbox"/>	Name ▾	Last modified ▾
<input checked="" type="checkbox"/>	 wd1GB_1.png	Mar 31, 2020 10:35:02 PM GMT+0300

wd1GB_1.png

Download

Copy path

Select from

Latest version ▾

Last modified: Mar 31, 2020 10:35:02 PM GMT+0300
Object URL: https://s3-us-east-2.amazonaws.com/lab2.3/wd1GB_1.png

Properties	Storage class	Standard
	Encryption	None
	Metadata	1
	Tags	0 Tags
	Object lock	Disabled

Permissions	Owner	
	Object	
	Read	1 Grantees
	Object permissions	
	Read	1 Grantees
	Write	1 Grantees

Delete bucket

- ⚠ Deleting a bucket cannot be undone.
- Bucket names are unique. If you delete a bucket, another AWS user can use the name.

[Learn more](#)

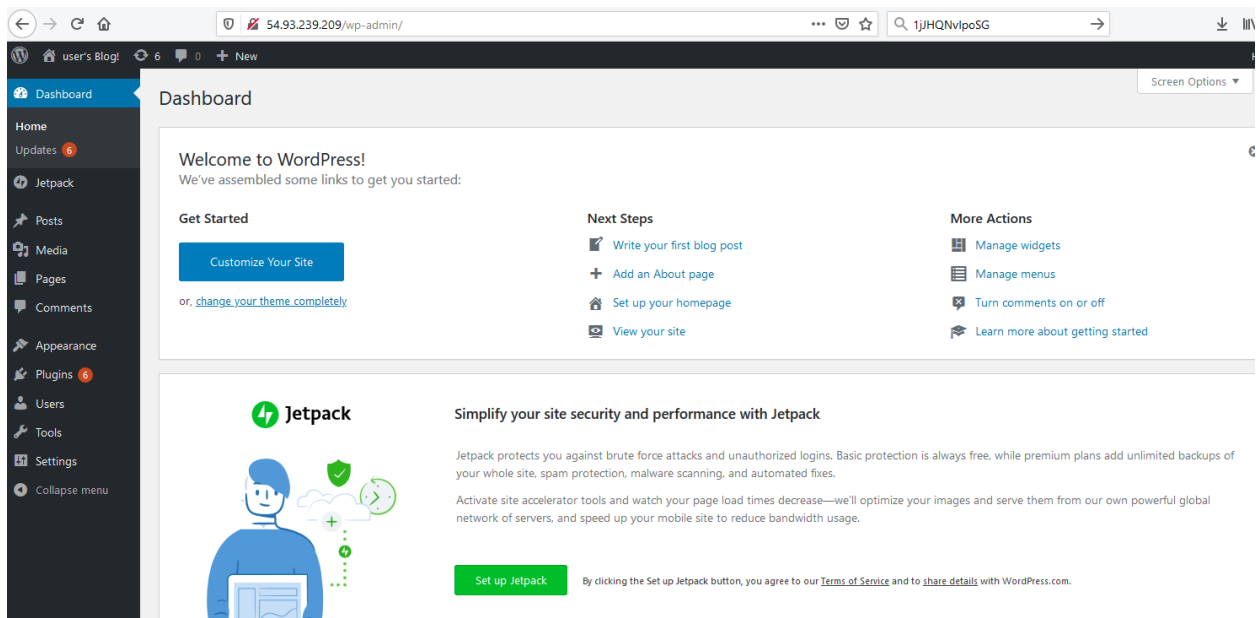
Delete bucket spreeproject-staging-666

To confirm deletion, type the name of the bucket.

Cancel

Delete bucket

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

Elastic IP addresses (1/1)



Actions ▾

Allocate Elastic IP address

< 1 > ⓘ

Public IPv4 address: 35.168.64.21 ✕

Clear filters

<input checked="" type="checkbox"/>	Name ▾	Public IPv4 address ▾	Allocation ID ▾	Associated instance ID ▾	Private IP address ▾	Associated network interface ID ▾
<input checked="" type="checkbox"/>		35.168.64.21	eipalloc-0b841a8d36f4c9adc	-	-	-

Associate Elastic IP address

Choose the instance or network interface to associate to this Elastic IP address (35.168.64.21)

Elastic IP address: 35.168.64.21

Resource type

Choose the type of resource with which to associate the Elastic IP address.

☒ Instance☐ Network interface

⚠ If you associate an Elastic IP address to an instance that already has an Elastic IP address associated, this previously associated Elastic IP address will be disassociated but still allocated to your account. [Learn more.](#)

Instance



Private IP address

The private IP address with which to associate the Elastic IP address.

Reassociation

Specify whether the Elastic IP address can be reassociated with a different resource if it already associated with a resource.

☐ Allow this Elastic IP address to be reassociated

aws

Services ▾ Resource Groups ▾ ⭐

🔔 dzubakhin ▾ Global ▾ Support ▾

Amazon Route 53

You can use Amazon Route 53 to register new domains, transfer existing domains, route traffic for your domains to your AWS and external resources, and monitor the health of your resources.

DNS management

If you already have a domain name, such as example.com, Route 53 can tell the Domain Name System (DNS) where on the Internet to find web servers, mail servers, and other resources for your domain.

[Learn More](#)

Get started now

Traffic management

Route 53 traffic flow provides a visual tool that you can use to create and update sophisticated routing policies to route end users to multiple endpoints for your application.

[Learn More](#)

Get started now

Availability monitoring

Route 53 can monitor the health and performance of your application as well as your web servers and other resources. Route 53 can also redirect traffic to healthy resources.

[Learn More](#)

Get started now

Domain registration

If you need a domain name, you can find an available name and register it by using Route 53. You can also make Route 53 the registrar for existing domains that you registered with other registrars.

[Learn More](#)

Get started now

aws

Services ▾ Resource Groups ▾ ⭐

Domain Search

Contact Details

Verify & Purchase

Choose a domain name

.com - \$12.00

Check

Availability for 'lab2-3.com'

Domain Name	Status	Price /1 Year	Action
lab2-3.com	✓ Available	\$12.00	Add to cart

Related domain suggestions

Domain Name	Status	Price /1 Year	Action
4lab23.com	✓ Available	\$12.00	Add to cart
alab23.com	✓ Available	\$12.00	Add to cart
belab23.com	✓ Available	\$12.00	Add to cart
l4b23.com	✓ Available	\$12.00	Add to cart
lab2-3.info	✓ Available	\$12.00	Add to cart
lab2-3.net	✓ Available	\$11.00	Add to cart
lab2-3.ninja	✓ Available	\$18.00	Add to cart
lab2-3.org	✓ Available	\$12.00	Add to cart

Feedback

English (US)

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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

Add user



Review

Review your choices. After you create the user, you can view and download the autogenerated password and access key.

User details

User name	Godzilla
AWS access type	Programmatic access - with an access key
Permissions boundary	Permissions boundary is not set

Permissions summary

The following policies will be attached to the user shown above.

Type	Name
Managed policy	AdministratorAccess

Tags

No tags were added.

```
Administrator: Command Prompt

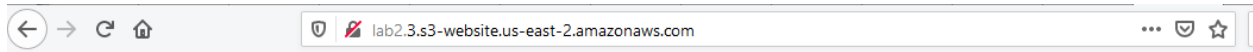
Microsoft Windows [Version 10.0.18362.592]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>aws configure
AWS Access Key ID [*****P30S]: AKIA4
AWS Secret Access Key [*****qn7G]: b
Default region name [us-east-1]: us-east-1
Default output format [json]: json

C:\WINDOWS\system32>
```

```
C:\>cd aws
C:\aws>aws s3 cp 25AEG.png s3://lab2.3/
upload: .\25AEG.png to s3://lab2.3/25AEG.png
C:\aws>
```

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



Student – Denis Zubakhin

EPAM DEVOPS 2020 Spring

AWS services learned:

AWS CLI

AWS Route 53

AWS Elastic IPs

AWS lightSail

AWS IAM