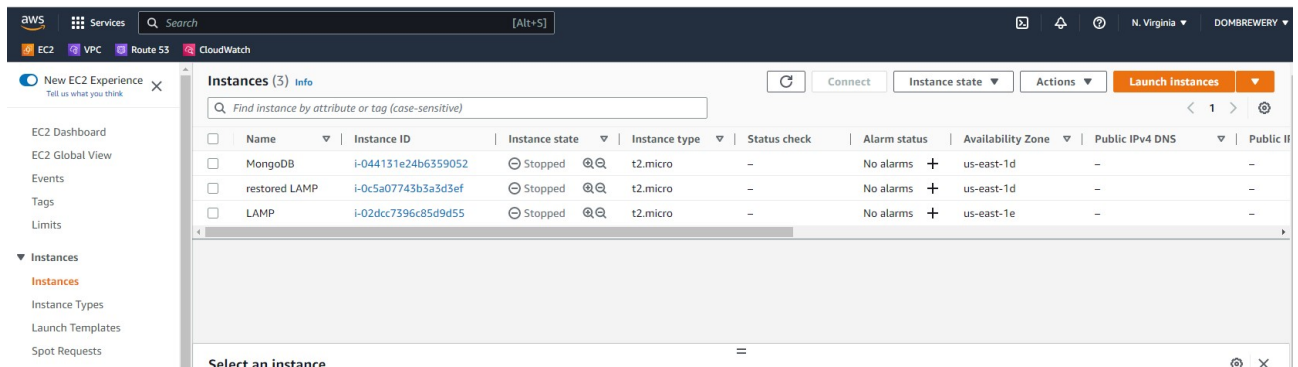
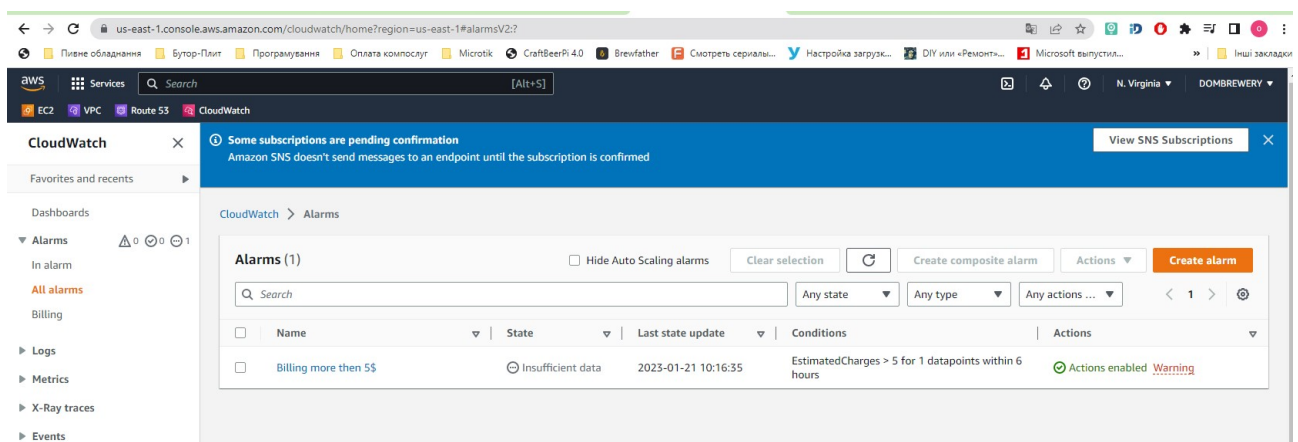


Виконання таску AWS Cloud Basic

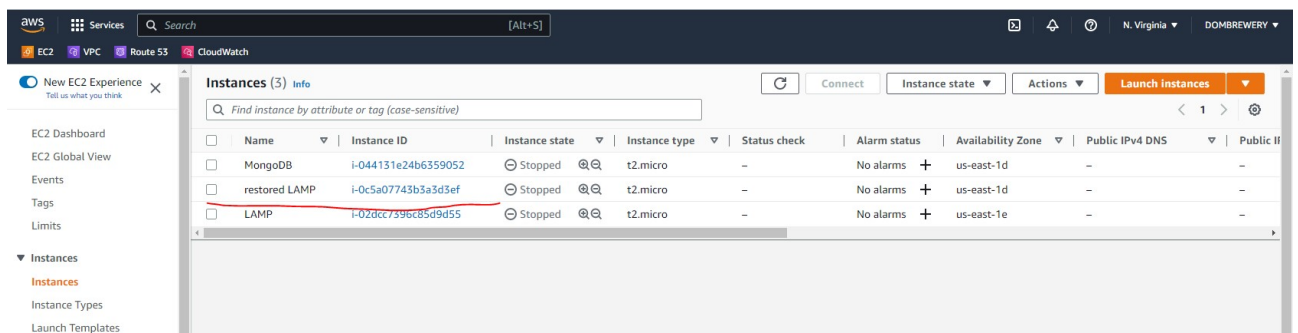
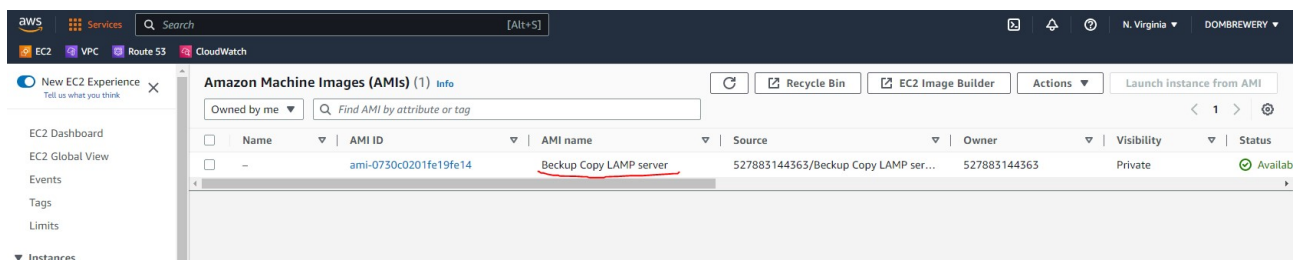
1. Налаштовано особистий доступ до сервісів AWS/ створено декілька інстансів



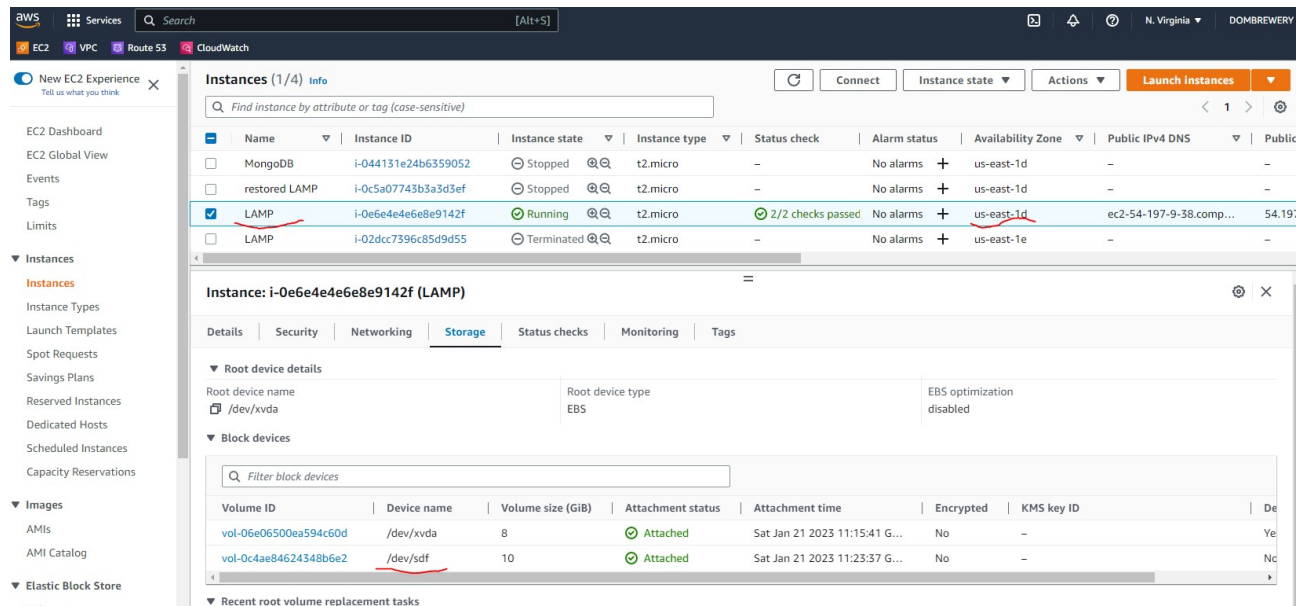
Налаштовано повідомлення в разі перевищення платного бюджету в 5\$



2. Один з екземплярів LAMP Server створено з нього зріз а також відновлено інший екземпляр з нього



3. Створено диск і під'єднано до першого серверу



Диск створено під'єднано, тепер його ініціалізуємо

```
[root@ip-172-31-84-238 ec2-user]# fdisk /dev/sdf
```

Команда (m для довідки): n

Partition type:

p primary (0 primary, 0 extended, 4 free)

e extended

Select (default p): p

Номер розділу (1-4, default 1): 1

Перший сектор (2048-167772159, за замовчуванням 2048):

Використовується за замовчуванням 2048

Last sector, +sectors or +size{K,M,G} (2048-167772159, за замовчуванням 167772159):

Використовується за замовчуванням 167772159

Partition 1 of type Linux l of 80 GiB is set

Команда (m для довідки): w

Таблиця розділів було змінено!

```
[root@ip-172-31-84-238 ec2-user]# fdisk -l /dev/sdf
```

Disk /dev/sdf: 10 GiB, 10737418240 bytes, 20971520 sectors

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: 0x3030c19e

Device Boot Start End Sectors Size Id Type

/dev/sdf1 2048 20971519 20969472 10G 83 Linux

```
[root@ip-172-31-84-238 ec2-user]# mkfs -t ext4 /dev/sdf1
```

mke2fs 1.42.9 (28-Dec-2013)

Filesystem label=

OS type: Linux

Block size=4096 (log=2)

Fragment size=4096 (log=2)

Stride=0 blocks, Stripe width=0 blocks

655360 inodes, 2621184 blocks

131059 blocks (5.00%) reserved for the super user

First data block=0

Maximum filesystem blocks=2151677952

80 block groups

32768 blocks per group, 32768 fragments per group

8192 inodes per group

Superblock backups stored on blocks:

32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632

Allocating group tables: done

Writing inode tables: done

Creating journal (32768 blocks): done

Writing superblocks and filesystem accounting information: done

```
[root@ip-172-31-84-238 ec2-user]# mount -t ext4 /dev/sdf1 /opt
```

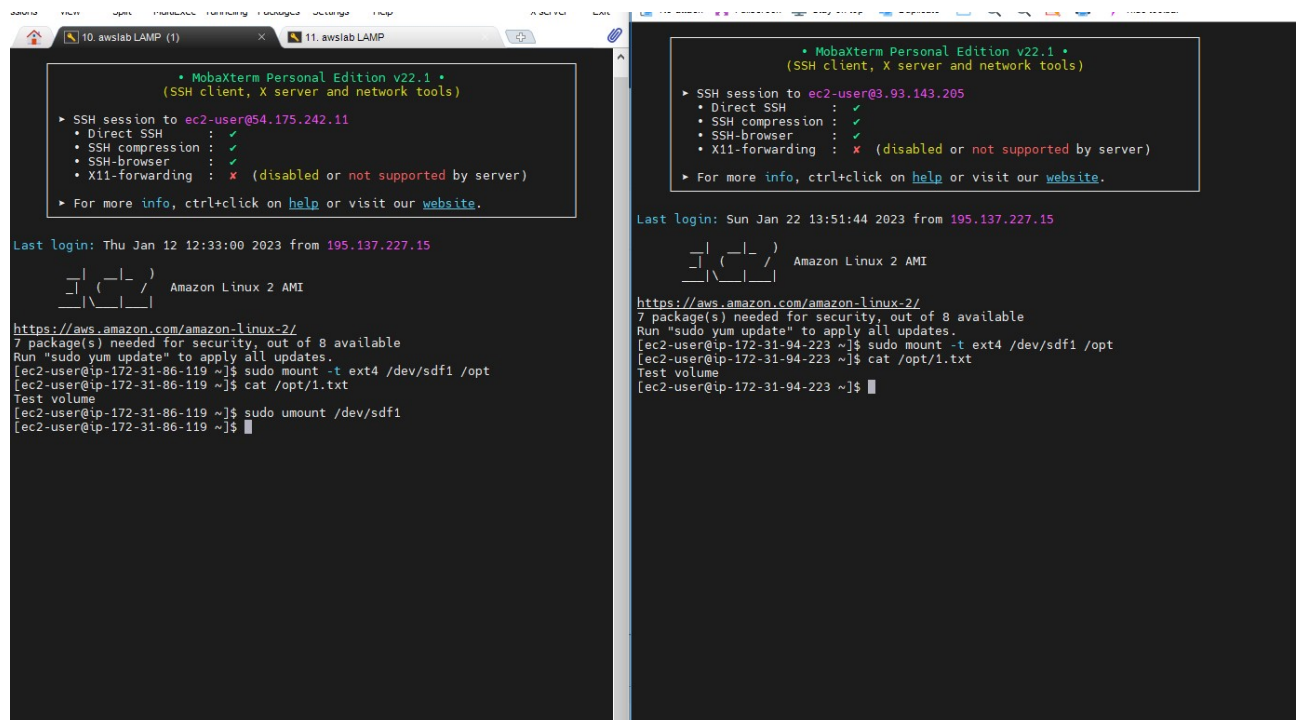
```
[root@ip-172-31-84-238 ec2-user]# df -h
```

Filesystem	Size	Used	Avail	Use%	Mounted on
devtmpfs	474M	0	474M	0%	/dev
tmpfs	483M	0	483M	0%	/dev/shm
tmpfs	483M	456K	482M	1%	/run
tmpfs	483M	0	483M	0%	/sys/fs/cgroup
/dev/xvda1	8.0G	2.1G	6.0G	26%	/
tmpfs	97M	0	97M	0%	/run/user/1000
/dev/xvdf1	9.7G	24K	9.2G	1%	/opt

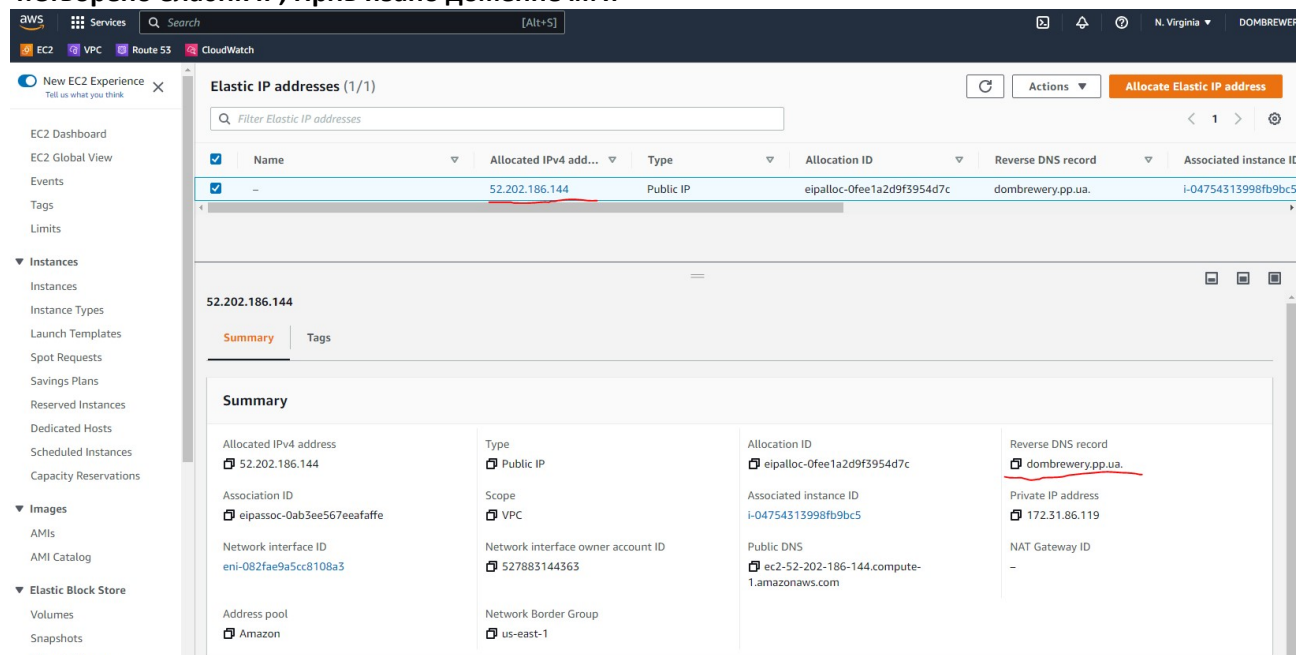
Під'єднання та від'єднання диску

```
[ec2-user@ip-172-31-86-119 ~]$ sudo mount -t ext4 /dev/sdf1 /opt
[ec2-user@ip-172-31-86-119 ~]$ cat /opt/1.txt
Test volume
[ec2-user@ip-172-31-86-119 ~]$ sudo umount /dev/sdf1
[ec2-user@ip-172-31-86-119 ~]$
```

```
[ec2-user@ip-172-31-94-223 ~]$ sudo mount -t ext4 /dev/sdf1 /opt
[ec2-user@ip-172-31-94-223 ~]$ cat /opt/1.txt
Test volume
[ec2-user@ip-172-31-94-223 ~]$
```



4. Створено еластич IP, Прив'язано доменне ім'я



aws Services Search [Alt+S] N. Virginia

EC2 VPC Route 53 CloudWatch

New EC2 Experience Tell us what you think

EC2 Dashboard
EC2 Global View
Events
Tags
Limits

Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations

Images
AMIs
AMI Catalog

Elastic Block Store
Volumes
Snapshots
Lifecycle Manager

Instances (1/3) Info

Find instance by attribute or tag (case-sensitive)

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/>	MongoDB	i-044131e24b6359052	Stopped	t2.micro	–	No alarms	us-east-1d	–
<input type="checkbox"/>	restored LAMP	i-0c5a07743b3a3d3ef	Stopped	t2.micro	–	No alarms	us-east-1d	–
<input checked="" type="checkbox"/>	LAMP Server	i-04754313998fb9bc5	Running	t2.micro	2/2 checks passed	No alarms	us-east-1d	ec2-52-202-186-144

Instance: i-04754313998fb9bc5 (LAMP Server)

Details Security **Networking** Storage Status checks Monitoring Tags

You can now check network connectivity with Reachability Analyzer. [Run Reachability Analyzer](#)

▼ Networking details Info

Public IPv4 address 52.202.186.144 open address	Private IPv4 addresses 172.31.86.119	VPC ID vpc-0a0c442b8dce161a3
Public IPv4 DNS ec2-52-202-186-144.compute-1.amazonaws.com open address	Private IP DNS name (IPv4 only) ip-172-31-86-119.ec2.internal	
Subnet ID subnet-08ac520342d1f52d8	IPv6 addresses –	Secondary private IPv4 addresses –
Availability zone us-east-1d	Carrier IP addresses (ephemeral) –	Outpost ID –
Use RBN as guest OS hostname Disabled	Answer RBN DNS hostname IPv4 Enabled	

5. Піднято WordPress

WordPress 6.1.1

Welcome to WordPress!

[Learn more about the 6.1.1 version.](#)

Author rich content with blocks and patterns
Customize your entire site with block themes
Switch up your site's look & feel with Styles

Jetpack
Simplify your site security and performance with Jetpack

6. Робота з S3Bucket

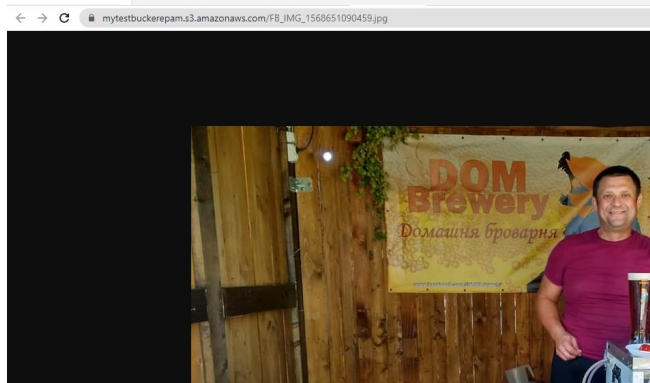
Amazon S3 Buckets mytestbuckerepam

mytestbuckerepam

Objects Properties Permissions Metrics Management Access Points

Objects (2)

Name	Type	Last modified	Size	Storage class
11/	Folder	-	-	-
FB_IMG_1568651090459.jpg	jpg	January 23, 2023, 11:28:44 (UTC+02:00)	104.4 KB	Standard



7. CLI AWS

```
Командный рядок

    "InstanceMetadataTags": "disabled"
  },
  "EnclaveOptions": {
    "Enabled": false
  },
  "PlatformDetails": "Linux/UNIX",
  "UsageOperation": "RunInstances",
  "UsageOperationUpdateTime": "2023-01-23T07:12:20+00:00",
  "PrivateDnsNameOptions": {
    "HostnameType": "ip-name",
    "EnableResourceNameDnsARecord": true,
    "EnableResourceNameDnsAAAARecord": false
  },
  "MaintenanceOptions": {
    "AutoRecovery": "default"
  }
}
],
"OwnerId": "527883144363",
"ReservationId": "r-03eae6b1cc7e7751d"
}
]
}

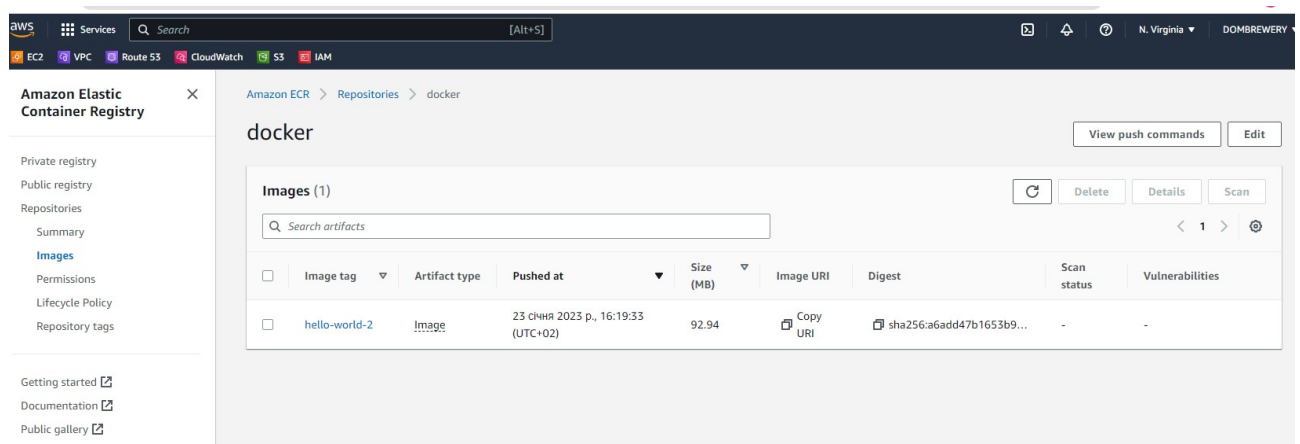
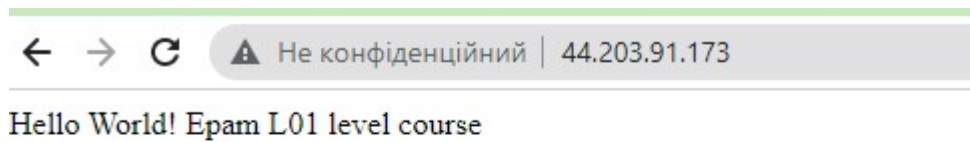
C:\Users\Olegd> aws s3 ls s3://mytestbuckerepam
PRE f1/
2023-01-23 11:28:44      106874 FB_IMG_1568651090459.jpg

C:\Users\Olegd>
```

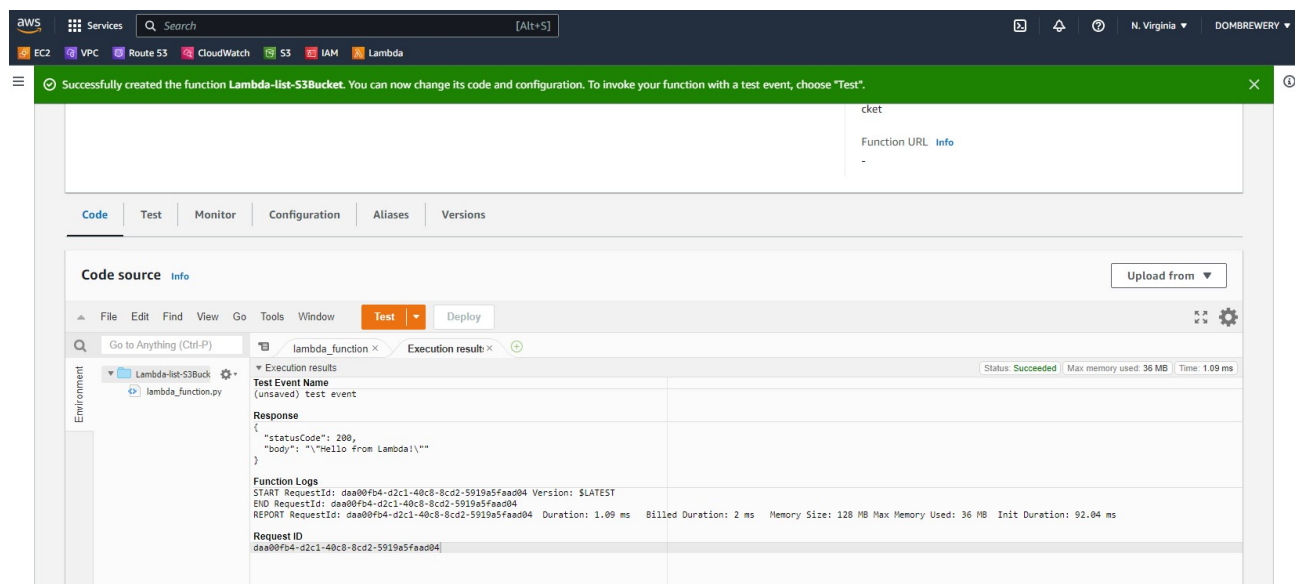
8. Deploy Docker Containers on Amazon Elastic Container Service

```
2. awslab Docker

Enabling module mime.
Enabling module negotiation.
Enabling module setenvif.
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
invoke-rc.d: could not determine current runlevel
invoke-rc.d: policy-rc.d denied execution of start.
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
Processing triggers for ca-certificates (20211016ubuntu0.22.04.1) ...
Updating certificates in /etc/ssl/certs ...
0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d ...
done.
Removing intermediate container 331d4be2a2dd
--> bc89d2021045
Step 3/6 : RUN echo 'Hello World! Epam L01 level course' > /var/www/html/index.html
--> Running in 4c473b629aae
Removing intermediate container 4c473b629aae
--> c7273815f726
Step 4/6 : RUN echo '. /etc/apache2/envvars' > /root/run_apache.sh && echo 'mkdir -p /var/run/apache2' >> /root/run_apache.sh &&
>> /root/run_apache.sh && echo '/usr/sbin/apache2 -D FOREGROUND' >> /root/run_apache.sh && chmod 755 /root/run_apache.sh
--> Running in 1bd13f45c821
Removing intermediate container 1bd13f45c821
--> e23ea394beed
Step 5/6 : EXPOSE 80
--> Running in 2265baab0a8f
Removing intermediate container 2265baab0a8f
--> 28c9ccee6e67
Step 6/6 : CMD /root/run_apache.sh
--> Running in b19149d546d5
Removing intermediate container b19149d546d5
--> 5f8b3e8b9072
Successfully built 5f8b3e8b9072
Successfully tagged hello-world-2:latest
[ec2-user@ip-172-31-91-198 ~]$ docker images --filter reference=hello-world
REPOSITORY TAG IMAGE ID CREATED SIZE
hello-world latest 8a6de943792e 25 minutes ago 203MB
[ec2-user@ip-172-31-91-198 ~]$ docker images --filter reference=hello-world-2
REPOSITORY TAG IMAGE ID CREATED SIZE
hello-world-2 latest 5f8b3e8b9072 56 seconds ago 226MB
[ec2-user@ip-172-31-91-198 ~]$ docker run --name myapache -d -p 80:80 hello-world-2
62a815297740cdc0e955e9d6310c6319c01b641481ca7f95b36f236cdef97222
[ec2-user@ip-172-31-91-198 ~]$ curl localhost
Hello World! Epam L01 level course
[ec2-user@ip-172-31-91-198 ~]$
```



9. AWS Lambda



10. Статична сторіна на AWS S3 <http://dombrewery.pp.ua/>