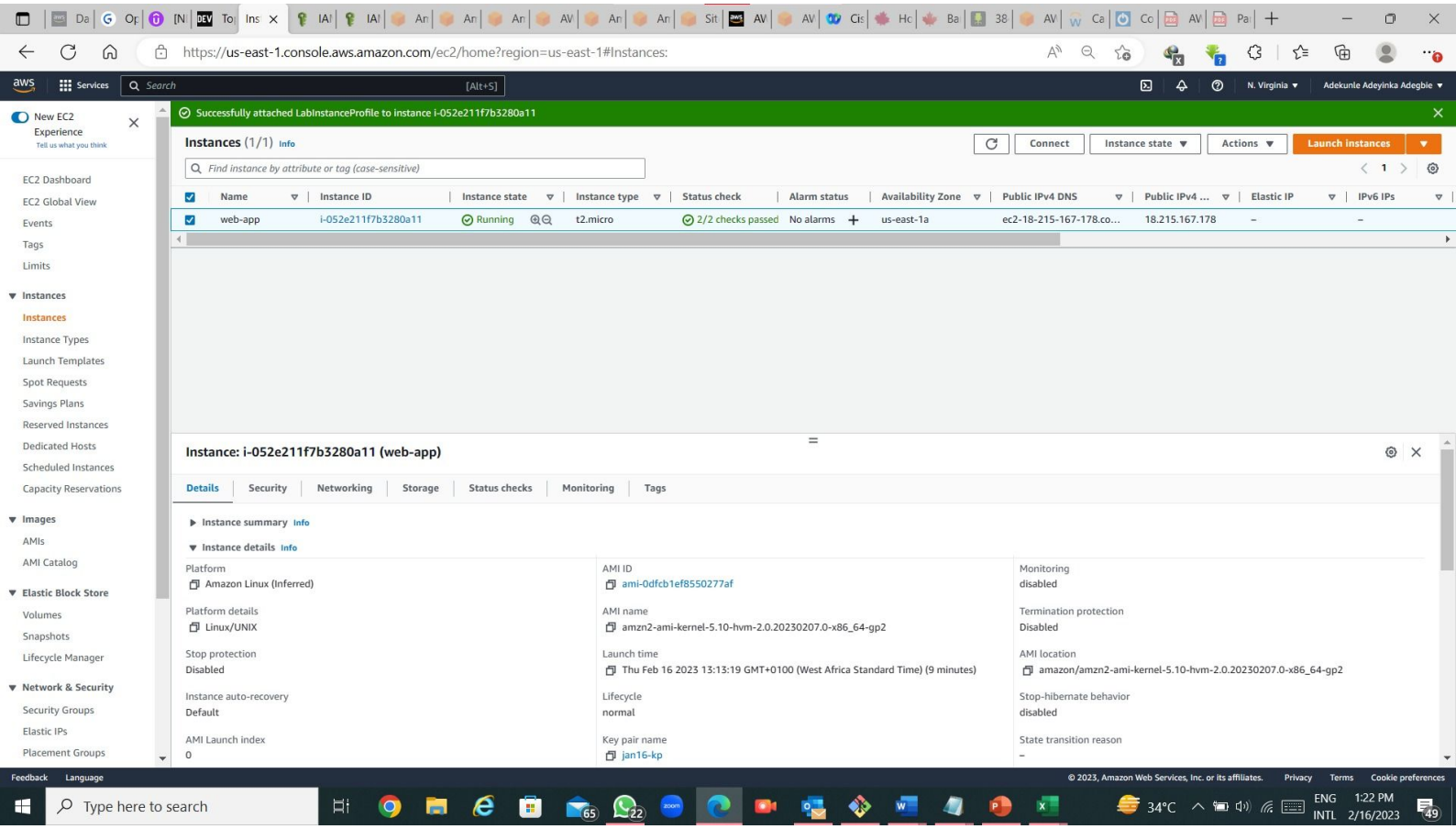
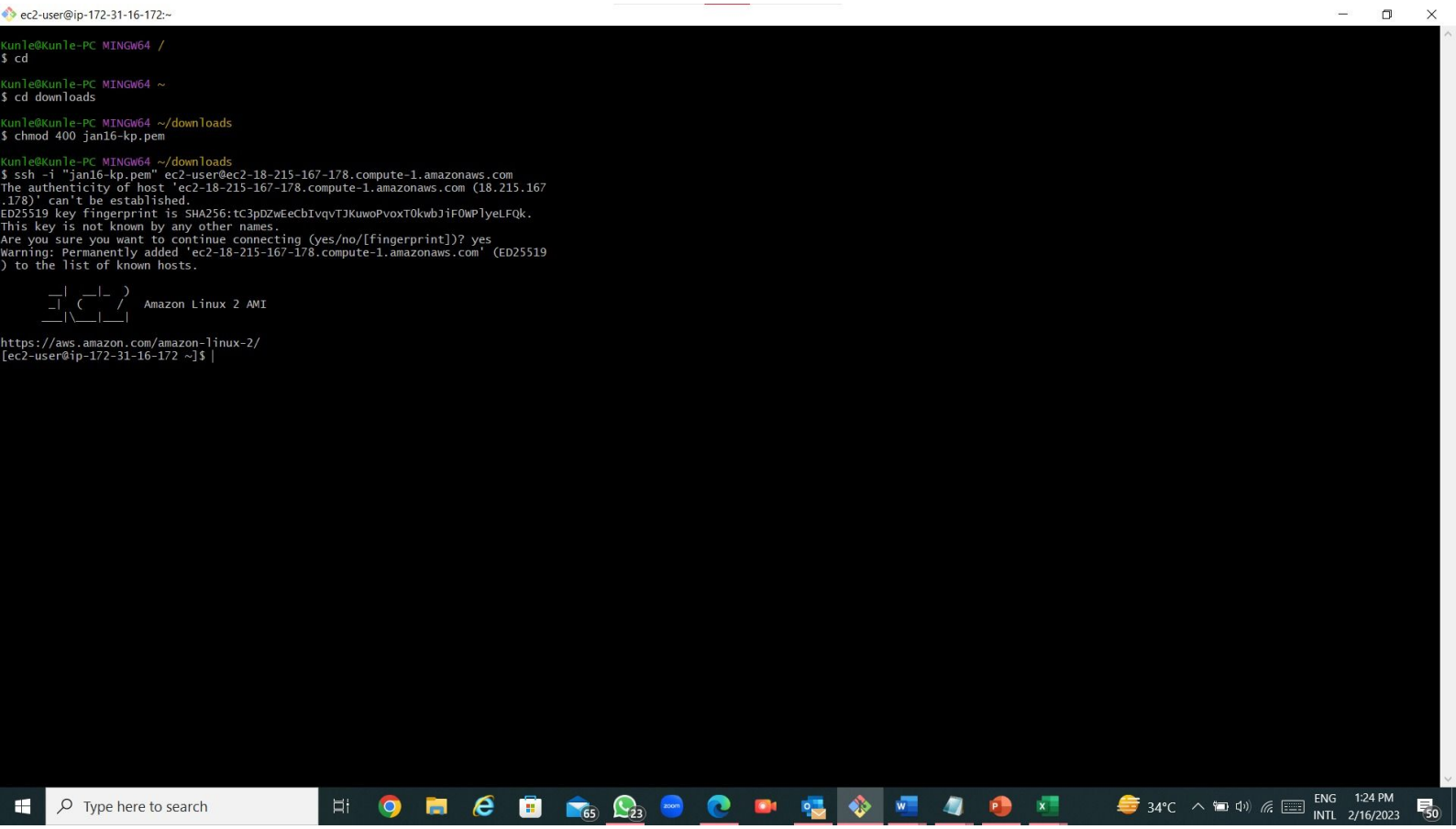

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:
Services
Search
[Alt+S]
N. Virginia
Adekunle Adeyinka Adegbie
Successfully attached LabInstanceProfile to instance i-052e211f7b3280a11
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
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
Network & Security
Security Groups
Elastic IPs
Placement Groups
Instances (1/1) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DNS
Public IPv4 ...
Elastic IP
IPv6 IPs
web-app
i-052e211f7b3280a11
Running
t2.micro
2/2 checks passed
No alarms
us-east-1a
ec2-18-215-167-178.co...
18.215.167.178
Instance: i-052e211f7b3280a11 (web-app)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Instance summary Info
Instance details Info
Platform
Amazon Linux (Inferred)
Platform details
Linux/UNIX
Stop protection
Disabled
Instance auto-recovery
Default
AMI Launch index
0
AMI ID
ami-0dfcb1ef8550277af
AMI name
amzn2-ami-kernel-5.10-hvm-2.0.20230207.0-x86_64-gp2
Launch time
Thu Feb 16 2023 13:13:19 GMT+0100 (West Africa Standard Time) (9 minutes)
Lifecycle
normal
Key pair name
jan16-kp
Monitoring
disabled
Termination protection
Disabled
AMI location
amazon/amzn2-ami-kernel-5.10-hvm-2.0.20230207.0-x86_64-gp2
Stop-hibernate behavior
disabled
State transition reason
-
Feedback
Language
© 2023, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Type here to search
34°C
ENG
INTL
1:22 PM
2/16/2023


ec2-user@ip-172-31-16-172:~
Kunle@Kunle-PC MINGW64 /
$ cd
Kunle@Kunle-PC MINGW64 ~
$ cd downloads
Kunle@Kunle-PC MINGW64 ~/downloads
$ chmod 400 jan16-kp.pem
Kunle@Kunle-PC MINGW64 ~/downloads
$ ssh -i "jan16-kp.pem" ec2-user@ec2-18-215-167-178.compute-1.amazonaws.com
The authenticity of host 'ec2-18-215-167-178.compute-1.amazonaws.com (18.215.167
.178)' can't be established.
ED25519 key fingerprint is SHA256:tC3pDZwEeCbIvqvTJKuwoPvoxTOkwbJiFOWPlyeLFQk.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-18-215-167-178.compute-1.amazonaws.com' (ED25519
) to the list of known hosts.
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-16-172 ~]$

MINGW64:/c/Users/Kunle/downloads

```
Kunle@Kunle-PC MINGW64 /
$ cd

Kunle@Kunle-PC MINGW64 ~
$ cd downloads

Kunle@Kunle-PC MINGW64 ~/downloads
$ chmod 400 jan16-kp.pem

Kunle@Kunle-PC MINGW64 ~/downloads
$ ssh -i "jan16-kp.pem" ec2-user@ec2-18-215-167-178.compute-1.amazonaws.com
The authenticity of host 'ec2-18-215-167-178.compute-1.amazonaws.com (18.215.167
.178)' can't be established.
ED25519 key fingerprint is SHA256:tC3pDZwEeCbIvqvTJKuwoPvoxTOkwbJiFOWPlyeLFQk.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-18-215-167-178.compute-1.amazonaws.com' (ED25519
) to the list of known hosts.

       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-16-172 ~]$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group defaul
t qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 9001 qdisc pfifo_fast state UP gr
oup default qlen 1000
    link/ether 0a:e7:02:8a:14:27 brd ff:ff:ff:ff:ff:ff
    inet 172.31.16.172/20 brd 172.31.31.255 scope global dynamic eth0
       valid_lft 2891sec preferred_lft 2891sec
    inet6 fe80::8e7:2ff:fe8a:1427/64 scope link
       valid_lft forever preferred_lft forever
[ec2-user@ip-172-31-16-172 ~]$ exit
logout
Connection to ec2-18-215-167-178.compute-1.amazonaws.com closed.

Kunle@Kunle-PC MINGW64 ~/downloads
$ scp -i jan16-kp.pem ./OCI.zip ec2-user@18.215.167.178:/home/ec2-user
The authenticity of host '18.215.167.178 (18.215.167.178)' can't be established.
ED25519 key fingerprint is SHA256:tC3pDZwEeCbIvqvTJKuwoPvoxTOkwbJiFOWPlyeLFQk.
This host key is known by the following other names/addresses:
    ~/.ssh/known_hosts:81: ec2-18-215-167-178.compute-1.amazonaws.com
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '18.215.167.178' (ED25519) to the list of known hosts
.
OCI.zip                                       100% 1595     7.2KB/s   00:00

Kunle@Kunle-PC MINGW64 ~/downloads
$
```

ec2-user@ip-172-31-16-172:~

```
        =stable ]
18  libreoffice             available    \
        [ =5.0.6.2_15  =5.3.6.1  =stable ]
19  gimp                    available    [ =2.8.22 ]
20  docker=latest           enabled      \
        [ =17.12.1  =18.03.1  =18.06.1  =18.09.9  =stable ]
21  mate-desktop1.x         available    \
        [ =1.19.0  =1.20.0  =stable ]
22  GraphicsMagick1.3       available    \
        [ =1.3.29  =1.3.32  =1.3.34  =stable ]
23  tomcat8.5               available    \
        [ =8.5.31  =8.5.32  =8.5.38  =8.5.40  =8.5.42  =8.5.50
        =stable ]
24  epel                    available    [ =7.11  =stable ]
25  testing                 available    [ =1.0  =stable ]
26  ecs                     available    [ =stable ]
27  corretto8               available    \
        [ =1.8.0_192  =1.8.0_202  =1.8.0_212  =1.8.0_222  =1.8.0_232
        =1.8.0_242  =stable ]
29  golang1.11              available    \
        [ =1.11.3  =1.11.11  =1.11.13  =stable ]
30  squid4                  available    [ =4  =stable ]
32  lustre2.10              available    \
        [ =2.10.5  =2.10.8  =stable ]
33  java-openjdk11          available    [ =11  =stable ]
34  lynis                   available    [ =stable ]
36  BCC                     available    [ =0.x  =stable ]
37  mono                    available    [ =5.x  =stable ]
38  nginx1                  available    [ =stable ]
39  ruby2.6                 available    [ =2.6  =stable ]
40  mock                    available    [ =stable ]
41  postgresql11            available    [ =11  =stable ]
43  livepatch               available    [ =stable ]
44  python3.8               available    [ =stable ]
45  haproxy2                available    [ =stable ]
46  collectd                available    [ =stable ]
47  aws-nitro-enclaves-cli  available    [ =stable ]
48  R4                      available    [ =stable ]
_   kernel-5.4              available    [ =stable ]
50  selinux-ng              available    [ =stable ]
51  php8.0                  available    [ =stable ]
52  tomcat9                 available    [ =stable ]
53  unbound1.13             available    [ =stable ]
54  mariadb10.5             available    [ =stable ]
55  kernel-5.10=latest      enabled      [ =stable ]
56  redis6                  available    [ =stable ]
57  ruby3.0                 available    [ =stable ]
58  postgresql12            available    [ =stable ]
59  postgresql13            available    [ =stable ]
60  mock2                   available    [ =stable ]
61  dnsmasq2.85             available    [ =stable ]
62  kernel-5.15             available    [ =stable ]
63  postgresql14            available    [ =stable ]
64  firefox                 available    [ =stable ]
65  lustre                  available    [ =stable ]
66  php8.1                  available    [ =stable ]
67  awscli1                 available    [ =stable ]
[ec2-user@ip-172-31-16-172 ~]$
```

ec2-user@ip-172-31-16-172:~

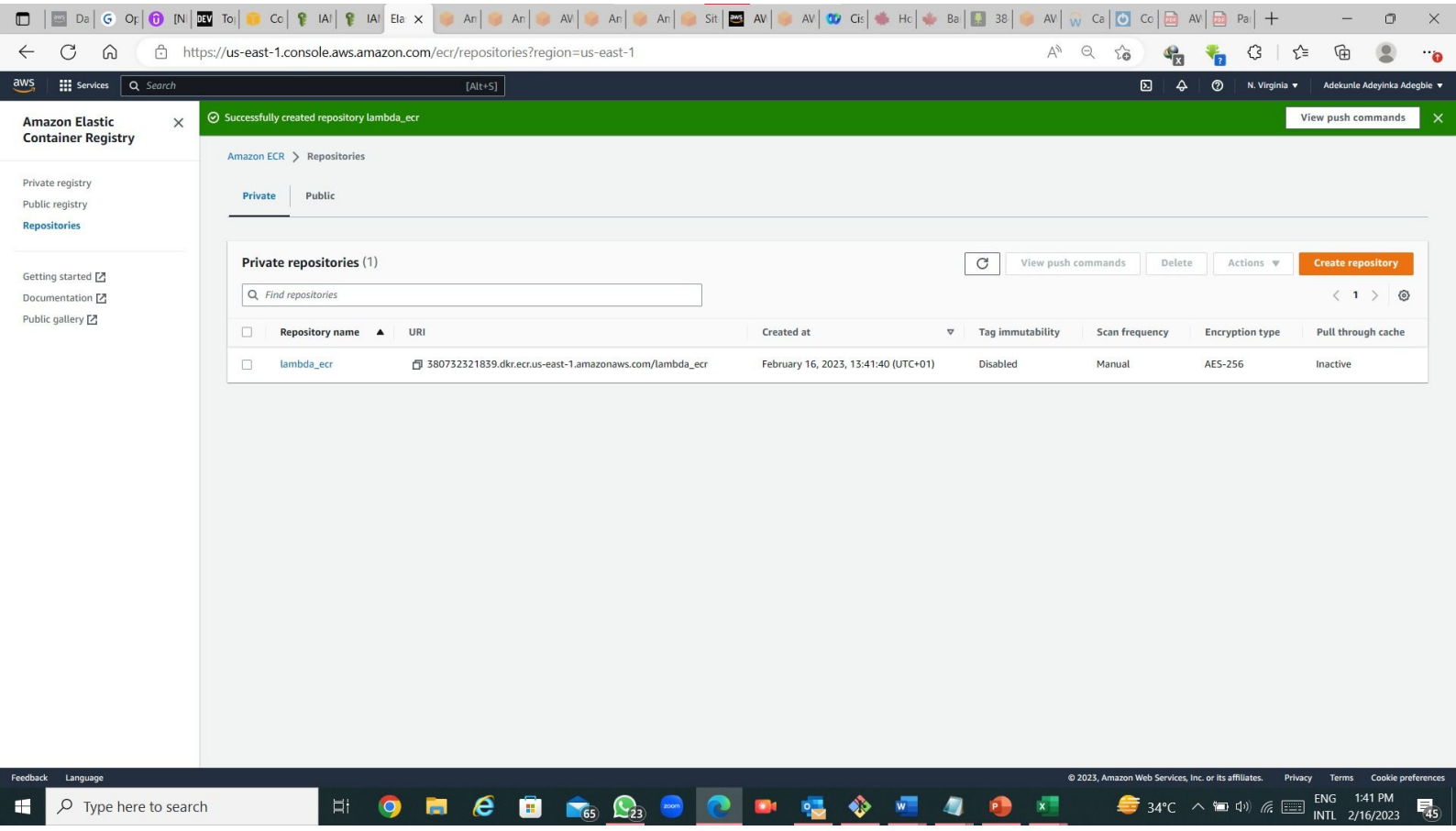
```
781eddb6f342: Pull complete
1ae1f1ea756f: Pull complete
5b3e7c82c61d: Pull complete
369973018634: Pull complete
Digest: sha256:84630610c68e7c97384bc6e10f5490ab7b8398c30cdfffefa139ae20c3407cda
Status: Downloaded newer image for python:alpine
 ---> 85da6554f50c
Step 2/4 : COPY ./content .
 ---> 11048f6ff3ca
Step 3/4 : RUN pip install -r requirements.txt
 ---> Running in 02a891b788b8
Collecting boto3>=1.16.19
  Downloading boto3-1.26.72-py3-none-any.whl (132 kB)
     ---------------------------------------- 132.7/132.7 kB 4.0 MB/s eta 0:00:00
Collecting requests>=2.25.0
  Downloading requests-2.28.2-py3-none-any.whl (62 kB)
     ---------------------------------------- 62.8/62.8 kB 12.2 MB/s eta 0:00:00
Collecting botocore<1.30.0,>=1.29.72
  Downloading botocore-1.29.72-py3-none-any.whl (10.4 MB)
     ---------------------------------------- 10.4/10.4 MB 58.0 MB/s eta 0:00:00
Collecting jmespath<2.0.0,>=0.7.1
  Downloading jmespath-1.0.1-py3-none-any.whl (20 kB)
Collecting s3transfer<0.7.0,>=0.6.0
  Downloading s3transfer-0.6.0-py3-none-any.whl (79 kB)
     ---------------------------------------- 79.6/79.6 kB 16.6 MB/s eta 0:00:00
Collecting charset-normalizer<4,>=2
  Downloading charset_normalizer-3.0.1-cp311-cp311-musllinux_1_1_x86_64.whl (190 kB)
     ---------------------------------------- 190.6/190.6 kB 32.7 MB/s eta 0:00:00
Collecting idna<4,>=2.5
  Downloading idna-3.4-py3-none-any.whl (61 kB)
     ---------------------------------------- 61.5/61.5 kB 14.2 MB/s eta 0:00:00
Collecting urllib3<1.27,>=1.21.1
  Downloading urllib3-1.26.14-py2.py3-none-any.whl (140 kB)
     ---------------------------------------- 140.6/140.6 kB 21.1 MB/s eta 0:00:00
Collecting certifi>=2017.4.17
  Downloading certifi-2022.12.7-py3-none-any.whl (155 kB)
     ---------------------------------------- 155.3/155.3 kB 26.2 MB/s eta 0:00:00
Collecting python-dateutil<3.0.0,>=2.1
  Downloading python_dateutil-2.8.2-py2.py3-none-any.whl (247 kB)
     ---------------------------------------- 247.7/247.7 kB 37.6 MB/s eta 0:00:00
Collecting six>=1.5
  Downloading six-1.16.0-py2.py3-none-any.whl (11 kB)
Installing collected packages: charset-normalizer, urllib3, six, jmespath, idna, certifi, requests, python-dateutil, botocore, s3transfer, boto3
Successfully installed boto3-1.26.72 botocore-1.29.72 certifi-2022.12.7 charset-normalizer-3.0.1 idna-3.4 jmespath-1.0.1 python-dateutil-2.8.2 requests-2.28.2 s3transfer-0.6.0 six-1.16.0 urllib3-1.26.14
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv

[notice] A new release of pip available: 22.3.1 -> 23.0
[notice] To update, run: pip install --upgrade pip
Removing intermediate container 02a891b788b8
 ---> 9e9203e3315a
Step 4/4 : CMD python3 bootstrap.py
 ---> Running in 4034edfd6093
Removing intermediate container 4034edfd6093
 ---> 876818be91f6
Successfully built 876818be91f6
Successfully tagged lambda_ecr:latest
[ec2-user@ip-172-31-16-172 ~]$
```

ec2-user@ip-172-31-16-172:~

```
Step 2/4 : COPY ./content .
 ---> 11048f6ff3ca
Step 3/4 : RUN pip install -r requirements.txt
 ---> Running in 02a891b788b8
Collecting boto3>=1.16.19
  Downloading boto3-1.26.72-py3-none-any.whl (132 kB)
     ---------------------------------------- 132.7/132.7 kB 4.0 MB/s eta 0:00:00
Collecting requests>=2.25.0
  Downloading requests-2.28.2-py3-none-any.whl (62 kB)
     ---------------------------------------- 62.8/62.8 kB 12.2 MB/s eta 0:00:00
Collecting botocore<1.30.0,>=1.29.72
  Downloading botocore-1.29.72-py3-none-any.whl (10.4 MB)
     ---------------------------------------- 10.4/10.4 MB 58.0 MB/s eta 0:00:00
Collecting jmespath<2.0.0,>=0.7.1
  Downloading jmespath-1.0.1-py3-none-any.whl (20 kB)
Collecting s3transfer<0.7.0,>=0.6.0
  Downloading s3transfer-0.6.0-py3-none-any.whl (79 kB)
     ---------------------------------------- 79.6/79.6 kB 16.6 MB/s eta 0:00:00
Collecting charset-normalizer<4,>=2
  Downloading charset_normalizer-3.0.1-cp311-cp311-musllinux_1_1_x86_64.whl (190 kB)
     ---------------------------------------- 190.6/190.6 kB 32.7 MB/s eta 0:00:00
Collecting idna<4,>=2.5
  Downloading idna-3.4-py3-none-any.whl (61 kB)
     ---------------------------------------- 61.5/61.5 kB 14.2 MB/s eta 0:00:00
Collecting urllib3<1.27,>=1.21.1
  Downloading urllib3-1.26.14-py2.py3-none-any.whl (140 kB)
     ---------------------------------------- 140.6/140.6 kB 21.1 MB/s eta 0:00:00
Collecting certifi>=2017.4.17
  Downloading certifi-2022.12.7-py3-none-any.whl (155 kB)
     ---------------------------------------- 155.3/155.3 kB 26.2 MB/s eta 0:00:00
Collecting python-dateutil<3.0.0,>=2.1
  Downloading python_dateutil-2.8.2-py2.py3-none-any.whl (247 kB)
     ---------------------------------------- 247.7/247.7 kB 37.6 MB/s eta 0:00:00
Collecting six>=1.5
  Downloading six-1.16.0-py2.py3-none-any.whl (11 kB)
Installing collected packages: charset-normalizer, urllib3, six, jmespath, idna, certifi, requests, python-dateutil, botocore, s3transfer, boto3
Successfully installed boto3-1.26.72 botocore-1.29.72 certifi-2022.12.7 charset-normalizer-3.0.1 idna-3.4 jmespath-1.0.1 python-dateutil-2.8.2 requests-2.28.2 s3transfer-0.6.0 six-1.16.0 urllib3-1.26.14
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv

[notice] A new release of pip available: 22.3.1 -> 23.0
[notice] To update, run: pip install --upgrade pip
Removing intermediate container 02a891b788b8
 ---> 9e9203e3315a
Step 4/4 : CMD python3 bootstrap.py
 ---> Running in 4034edfd6093
Removing intermediate container 4034edfd6093
 ---> 876818be91f6
Successfully built 876818be91f6
Successfully tagged lambda_ecr:latest
[ec2-user@ip-172-31-16-172 ~]$ sudo docker images
REPOSITORY   TAG       IMAGE ID       CREATED              SIZE
lambda_ecr   latest    876818be91f6   About a minute ago   152MB
python       alpine    85da6554f50c   5 days ago           51.7MB
[ec2-user@ip-172-31-16-172 ~]$
[ec2-user@ip-172-31-16-172 ~]$
[ec2-user@ip-172-31-16-172 ~]$
[ec2-user@ip-172-31-16-172 ~]$
```


https://us-east-1.console.aws.amazon.com/ecr/repositories?region=us-east-1
Services
Search
[Alt+S]
N. Virginia
Adekunle Adeyinka Adegbie
Amazon Elastic Container Registry
Private registry
Public registry
Repositories
Getting started
Documentation
Public gallery
Successfully created repository lambda_ecr
View push commands
Amazon ECR > Repositories
Private
Public
Private repositories (1)
View push commands
Delete
Actions
Create repository
Find repositories
Repository name
URI
Created at
Tag immutability
Scan frequency
Encryption type
Pull through cache
lambda_ecr
380732321839.dkr.ecr.us-east-1.amazonaws.com/lambda_ecr
February 16, 2023, 13:41:40 (UTC+01)
Disabled
Manual
AES-256
Inactive
Feedback
Language
© 2023, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Type here to search
34°C
ENG
INTL
1:41 PM
2/16/2023

root@ip-172-31-16-172:/home/ec2-user

```
Successfully built 876818be91f6
Successfully tagged lambda_ecr:latest
[ec2-user@ip-172-31-16-172 ~]$ sudo docker images
REPOSITORY   TAG       IMAGE ID       CREATED              SIZE
lambda_ecr   latest    876818be91f6   About a minute ago   152MB
python       alpine    85da6554f50c   5 days ago           51.7MB
[ec2-user@ip-172-31-16-172 ~]$
[ec2-user@ip-172-31-16-172 ~]$
[ec2-user@ip-172-31-16-172 ~]$
[ec2-user@ip-172-31-16-172 ~]$ ls -ali
total 24
13241975 drwx------ 6 ec2-user ec2-user  169 Feb 16 12:35 .
 4194789 drwxr-xr-x 3 root     root       22 Feb 16 12:13 ..
 4542465 drwxrwxr-x 2 ec2-user ec2-user   20 Feb 16 12:35 .aws
13242507 -rw------- 1 ec2-user ec2-user   10 Feb 16 12:25 .bash_history
13241976 -rw-r--r-- 1 ec2-user ec2-user   18 Jul 15  2020 .bash_logout
13241977 -rw-r--r-- 1 ec2-user ec2-user  193 Jul 15  2020 .bash_profile
13241978 -rw-r--r-- 1 ec2-user ec2-user  231 Jul 15  2020 .bashrc
  394386 drwx------ 3 ec2-user root       25 Feb 16 12:31 .cache
13242510 drwxr-xr-x 2 root     root       64 Oct 11  2021 content
13242509 -rw-r--r-- 1 root     root      105 Oct 11  2021 Dockerfile
13242508 -rw-r--r-- 1 ec2-user ec2-user 1595 Feb 16 12:27 OCI.zip
  394383 drwx------ 2 ec2-user ec2-user   29 Feb 16 12:13 .ssh
[ec2-user@ip-172-31-16-172 ~]$ touch Dockerfile
touch: cannot touch 'Dockerfile': Permission denied
[ec2-user@ip-172-31-16-172 ~]$ sudo touch Dockerfile
[ec2-user@ip-172-31-16-172 ~]$ ls -ali
total 24
13241975 drwx------ 6 ec2-user ec2-user  169 Feb 16 12:35 .
 4194789 drwxr-xr-x 3 root     root       22 Feb 16 12:13 ..
 4542465 drwxrwxr-x 2 ec2-user ec2-user   20 Feb 16 12:35 .aws
13242507 -rw------- 1 ec2-user ec2-user   10 Feb 16 12:25 .bash_history
13241976 -rw-r--r-- 1 ec2-user ec2-user   18 Jul 15  2020 .bash_logout
13241977 -rw-r--r-- 1 ec2-user ec2-user  193 Jul 15  2020 .bash_profile
13241978 -rw-r--r-- 1 ec2-user ec2-user  231 Jul 15  2020 .bashrc
  394386 drwx------ 3 ec2-user root       25 Feb 16 12:31 .cache
13242510 drwxr-xr-x 2 root     root       64 Oct 11  2021 content
13242509 -rw-r--r-- 1 root     root      105 Feb 16 12:44 Dockerfile
13242508 -rw-r--r-- 1 ec2-user ec2-user 1595 Feb 16 12:27 OCI.zip
  394383 drwx------ 2 ec2-user ec2-user   29 Feb 16 12:13 .ssh
[ec2-user@ip-172-31-16-172 ~]$ sudo su
[root@ip-172-31-16-172 ec2-user]# vi Dockerfile
[root@ip-172-31-16-172 ec2-user]# docker build -t lambda_ecr .
Sending build context to Docker daemon  598.5kB
Step 1/4 : FROM python:alpine
 ---> 85da6554f50c
Step 2/4 : COPY ./content .
 ---> Using cache
 ---> 11048f6ff3ca
Step 3/4 : RUN pip install -r requirements.txt
 ---> Using cache
 ---> 9e9203e3315a
Step 4/4 : CMD python3 bootstrap.py
 ---> Using cache
 ---> 876818be91f6
Successfully built 876818be91f6
Successfully tagged lambda_ecr:latest
[root@ip-172-31-16-172 ec2-user]#
```

root@ip-172-31-16-172:/home/ec2-user

```
[ec2-user@ip-172-31-16-172 ~]$ sudo docker images
REPOSITORY   TAG       IMAGE ID       CREATED              SIZE
lambda_ecr   latest    876818be91f6   About a minute ago   152MB
python       alpine    85da6554f50c   5 days ago           51.7MB
[ec2-user@ip-172-31-16-172 ~]$
[ec2-user@ip-172-31-16-172 ~]$
[ec2-user@ip-172-31-16-172 ~]$
[ec2-user@ip-172-31-16-172 ~]$ ls -ali
total 24
13241975 drwx------ 6 ec2-user ec2-user  169 Feb 16 12:35 .
 4194789 drwxr-xr-x 3 root     root       22 Feb 16 12:13 ..
 4542465 drwxrwxr-x 2 ec2-user ec2-user   20 Feb 16 12:35 .aws
13242507 -rw------- 1 ec2-user ec2-user   10 Feb 16 12:25 .bash_history
13241976 -rw-r--r-- 1 ec2-user ec2-user   18 Jul 15  2020 .bash_logout
13241977 -rw-r--r-- 1 ec2-user ec2-user  193 Jul 15  2020 .bash_profile
13241978 -rw-r--r-- 1 ec2-user ec2-user  231 Jul 15  2020 .bashrc
  394386 drwx------ 3 ec2-user root       25 Feb 16 12:31 .cache
13242510 drwxr-xr-x 2 root     root       64 Oct 11  2021 content
13242509 -rw-r--r-- 1 root     root      105 Oct 11  2021 Dockerfile
13242508 -rw-r--r-- 1 ec2-user ec2-user 1595 Feb 16 12:27 OCI.zip
  394383 drwx------ 2 ec2-user ec2-user   29 Feb 16 12:13 .ssh
[ec2-user@ip-172-31-16-172 ~]$ touch Dockerfile
touch: cannot touch 'Dockerfile': Permission denied
[ec2-user@ip-172-31-16-172 ~]$ sudo touch Dockerfile
[ec2-user@ip-172-31-16-172 ~]$ ls -ali
total 24
13241975 drwx------ 6 ec2-user ec2-user  169 Feb 16 12:35 .
 4194789 drwxr-xr-x 3 root     root       22 Feb 16 12:13 ..
 4542465 drwxrwxr-x 2 ec2-user ec2-user   20 Feb 16 12:35 .aws
13242507 -rw------- 1 ec2-user ec2-user   10 Feb 16 12:25 .bash_history
13241976 -rw-r--r-- 1 ec2-user ec2-user   18 Jul 15  2020 .bash_logout
13241977 -rw-r--r-- 1 ec2-user ec2-user  193 Jul 15  2020 .bash_profile
13241978 -rw-r--r-- 1 ec2-user ec2-user  231 Jul 15  2020 .bashrc
  394386 drwx------ 3 ec2-user root       25 Feb 16 12:31 .cache
13242510 drwxr-xr-x 2 root     root       64 Oct 11  2021 content
13242509 -rw-r--r-- 1 root     root      105 Feb 16 12:44 Dockerfile
13242508 -rw-r--r-- 1 ec2-user ec2-user 1595 Feb 16 12:27 OCI.zip
  394383 drwx------ 2 ec2-user ec2-user   29 Feb 16 12:13 .ssh
[ec2-user@ip-172-31-16-172 ~]$ sudo su
[root@ip-172-31-16-172 ec2-user]# vi Dockerfile
[root@ip-172-31-16-172 ec2-user]# docker build -t lambda_ecr .
Sending build context to Docker daemon  598.5kB
Step 1/4 : FROM python:alpine
 ---> 85da6554f50c
Step 2/4 : COPY ./content .
 ---> Using cache
 ---> 11048f6ff3ca
Step 3/4 : RUN pip install -r requirements.txt
 ---> Using cache
 ---> 9e9203e3315a
Step 4/4 : CMD python3 bootstrap.py
 ---> Using cache
 ---> 876818be91f6
Successfully built 876818be91f6
Successfully tagged lambda_ecr:latest
[root@ip-172-31-16-172 ec2-user]# docker tag lambda_ecr:latest 380732321839.dkr.
ecr.us-east-1.amazonaws.com/lambda_ecr:latest
[root@ip-172-31-16-172 ec2-user]#
```

root@ip-172-31-16-172:/home/ec2-user

```
total 24
13241975 drwx------ 6 ec2-user ec2-user  169 Feb 16 12:35 .
 4194789 drwxr-xr-x 3 root     root       22 Feb 16 12:13 ..
 4542465 drwxrwxr-x 2 ec2-user ec2-user   20 Feb 16 12:35 .aws
13242507 -rw------- 1 ec2-user ec2-user   10 Feb 16 12:25 .bash_history
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13242509 -rw-r--r-- 1 root     root      105 Oct 11  2021 Dockerfile
13242508 -rw-r--r-- 1 ec2-user ec2-user 1595 Feb 16 12:27 OCI.zip
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[ec2-user@ip-172-31-16-172 ~]$ sudo touch Dockerfile
[ec2-user@ip-172-31-16-172 ~]$ ls -ali
total 24
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 4194789 drwxr-xr-x 3 root     root       22 Feb 16 12:13 ..
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13242510 drwxr-xr-x 2 root     root       64 Oct 11  2021 content
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13242508 -rw-r--r-- 1 ec2-user ec2-user 1595 Feb 16 12:27 OCI.zip
  394383 drwx------ 2 ec2-user ec2-user   29 Feb 16 12:13 .ssh
[ec2-user@ip-172-31-16-172 ~]$ sudo su
[root@ip-172-31-16-172 ec2-user]# vi Dockerfile
[root@ip-172-31-16-172 ec2-user]# docker build -t lambda_ecr .
Sending build context to Docker daemon  598.5kB
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 ---> 9e9203e3315a
Step 4/4 : CMD python3 bootstrap.py
 ---> Using cache
 ---> 876818be91f6
Successfully built 876818be91f6
Successfully tagged lambda_ecr:latest
[root@ip-172-31-16-172 ec2-user]# docker tag lambda_ecr:latest 380732321839.dkr.
ecr.us-east-1.amazonaws.com/lambda_ecr:latest
[root@ip-172-31-16-172 ec2-user]# aws ecr get-login-password --region us-east-1
| docker login --username AWS --password-stdin 380732321839.dkr.ecr.us-east-1.am
azonaws.com
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
[root@ip-172-31-16-172 ec2-user]#
```

root@ip-172-31-16-172:/home/ec2-user

```
  394383 drwx------ 2 ec2-user ec2-user   29 Feb 16 12:13 .ssh
[ec2-user@ip-172-31-16-172 ~]$ touch Dockerfile
touch: cannot touch 'Dockerfile': Permission denied
[ec2-user@ip-172-31-16-172 ~]$ sudo touch Dockerfile
[ec2-user@ip-172-31-16-172 ~]$ ls -ali
total 24
13241975 drwx------ 6 ec2-user ec2-user  169 Feb 16 12:35 .
 4194789 drwxr-xr-x 3 root     root       22 Feb 16 12:13 ..
 4542465 drwxrwxr-x 2 ec2-user ec2-user   20 Feb 16 12:35 .aws
13242507 -rw------- 1 ec2-user ec2-user   10 Feb 16 12:25 .bash_history
13241976 -rw-r--r-- 1 ec2-user ec2-user   18 Jul 15  2020 .bash_logout
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  394386 drwx------ 3 ec2-user root       25 Feb 16 12:31 .cache
13242510 drwxr-xr-x 2 root     root       64 Oct 11  2021 content
13242509 -rw-r--r-- 1 root     root      105 Feb 16 12:44 Dockerfile
13242508 -rw-r--r-- 1 ec2-user ec2-user 1595 Feb 16 12:27 OCI.zip
  394383 drwx------ 2 ec2-user ec2-user   29 Feb 16 12:13 .ssh
[ec2-user@ip-172-31-16-172 ~]$ sudo su
[root@ip-172-31-16-172 ec2-user]# vi Dockerfile
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 ---> 9e9203e3315a
Step 4/4 : CMD python3 bootstrap.py
 ---> Using cache
 ---> 876818be91f6
Successfully built 876818be91f6
Successfully tagged lambda_ecr:latest
[root@ip-172-31-16-172 ec2-user]# docker tag lambda_ecr:latest 380732321839.dkr.
ecr.us-east-1.amazonaws.com/lambda_ecr:latest
[root@ip-172-31-16-172 ec2-user]# aws ecr get-login-password --region us-east-1
| docker login --username AWS --password-stdin 380732321839.dkr.ecr.us-east-1.am
azonaws.com
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
[root@ip-172-31-16-172 ec2-user]# docker push 380732321839.dkr.ecr.us-east-1.ama
zonaws.com/lambda_ecr:latest
The push refers to repository [380732321839.dkr.ecr.us-east-1.amazonaws.com/lamb
da_ecr]
20162c033d83: Pushed
e2cd8f647283: Pushed
8ab058a1a5ad: Pushed
db7c33b45b7b: Pushed
6c173e500bd5: Pushed
f7cd9720fc7e: Pushed
7cd52847ad77: Pushed
latest: digest: sha256:86ffb51079335c79c5864705fdd0693ada547d28a17f4cac4ee1dc4bf957cd47 size: 1787
[root@ip-172-31-16-172 ec2-user]#
```

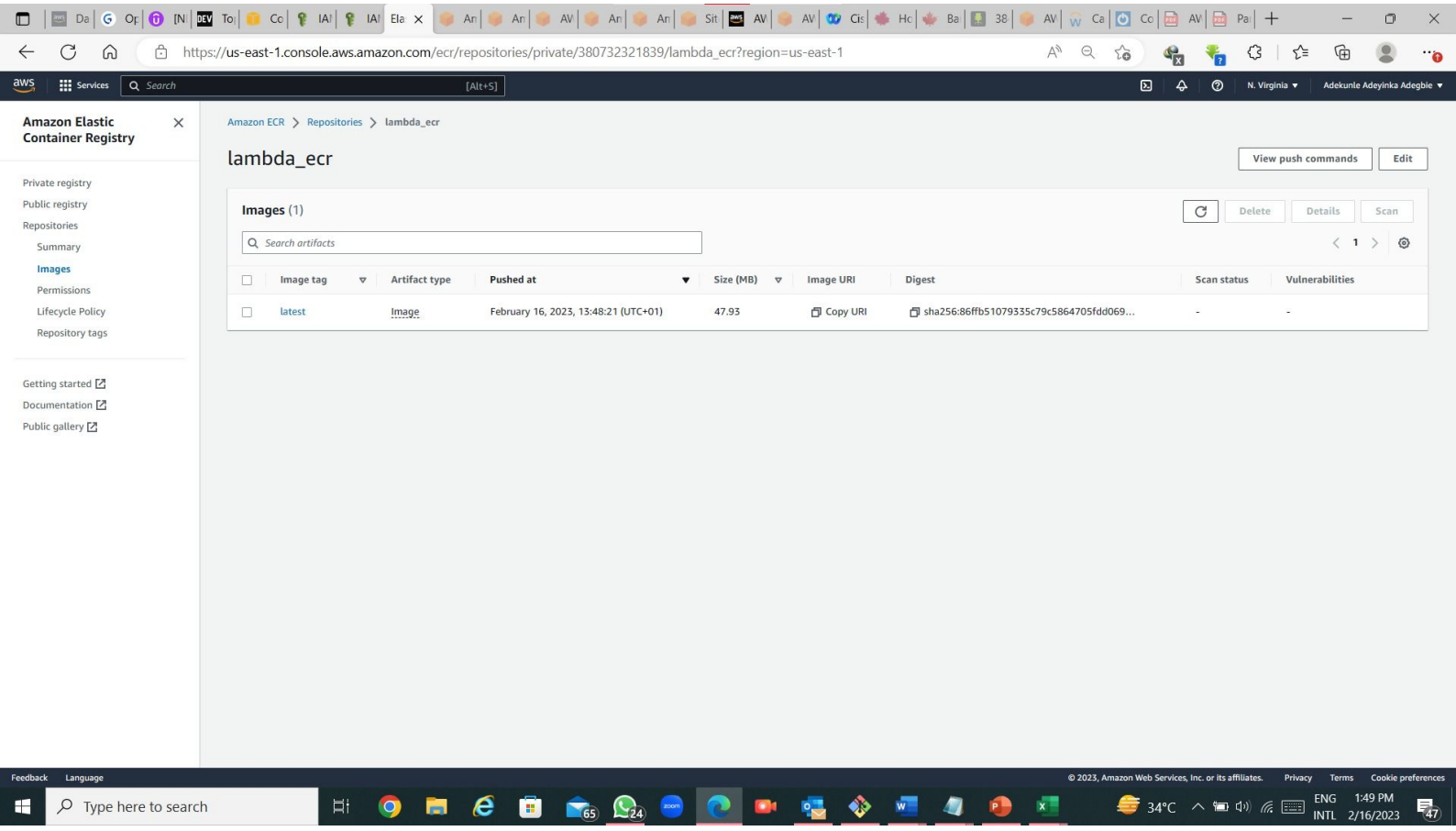
https://us-east-1.console.aws.amazon.com/ecr/repositories/private/380732321839/lambda_ecr?region=us-east-1
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Amazon Elastic Container Registry
Private registry
Public registry
Repositories
Summary
Images
Permissions
Lifecycle Policy
Repository tags
Getting started
Documentation
Public gallery
Amazon ECR > Repositories > lambda_ecr
lambda_ecr
View push commands
Edit
Images (1)
Delete
Details
Scan
Search artifacts
1
Image tag
Artifact type
Pushed at
Size (MB)
Image URI
Digest
Scan status
Vulnerabilities
latest
Image
February 16, 2023, 13:48:21 (UTC+01)
47.93
Copy URI
sha256:86ffb51079335c79c5864705fdd069...
-
-
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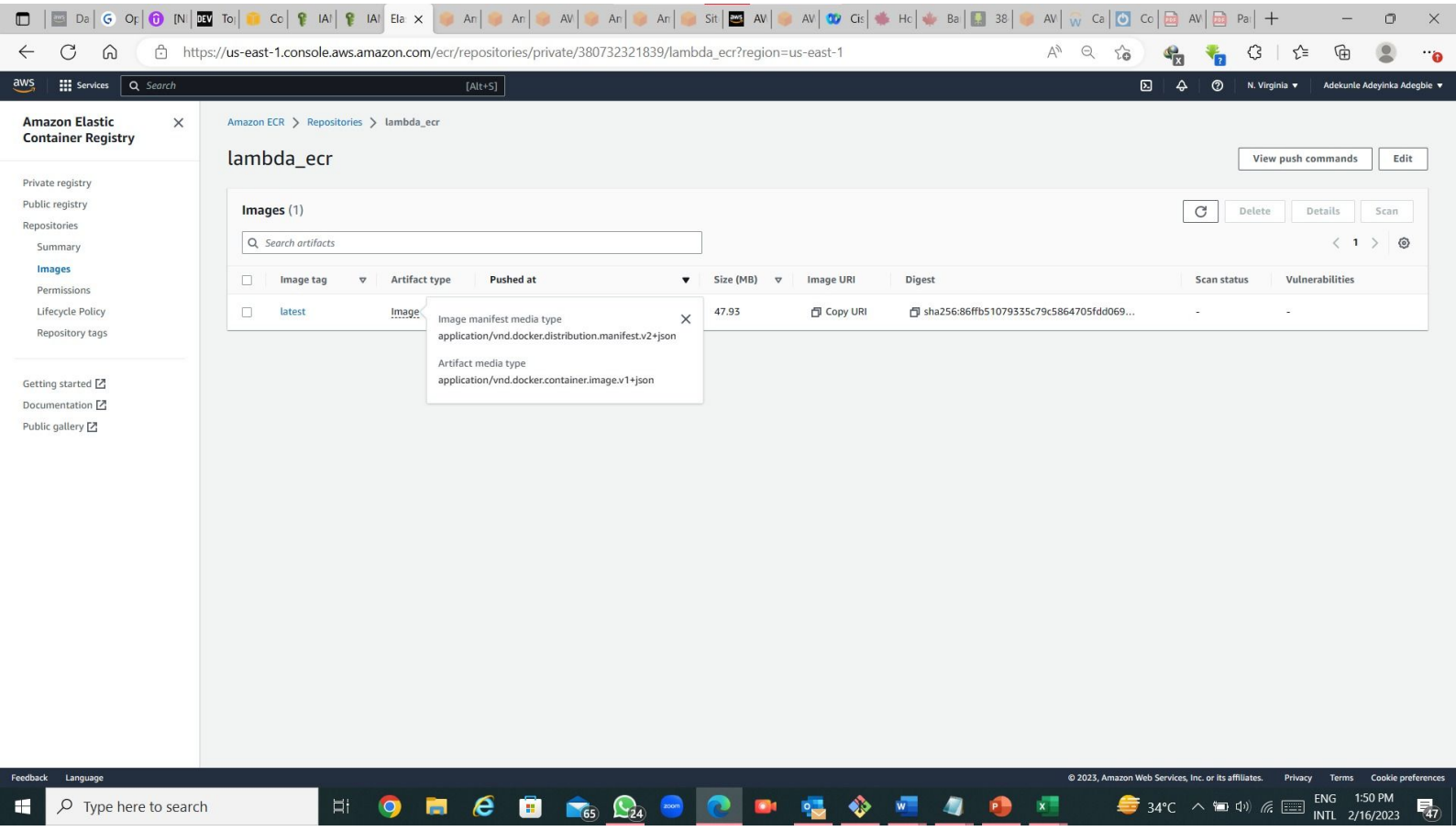
https://us-east-1.console.aws.amazon.com/ecr/repositories/private/380732321839/lambda_ecr?region=us-east-1
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Amazon Elastic Container Registry
Private registry
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Summary
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Amazon ECR > Repositories > lambda_ecr
lambda_ecr
View push commands
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Images (1)
Delete
Details
Scan
Search artifacts
Image tag
Artifact type
Pushed at
Size (MB)
Image URI
Digest
Scan status
Vulnerabilities
latest
Image
Image manifest media type
application/vnd.docker.distribution.manifest.v2+json
Artifact media type
application/vnd.docker.container.image.v1+json
47.93
Copy URI
sha256:86ffb51079335c79c5864705fdd069...
-
-
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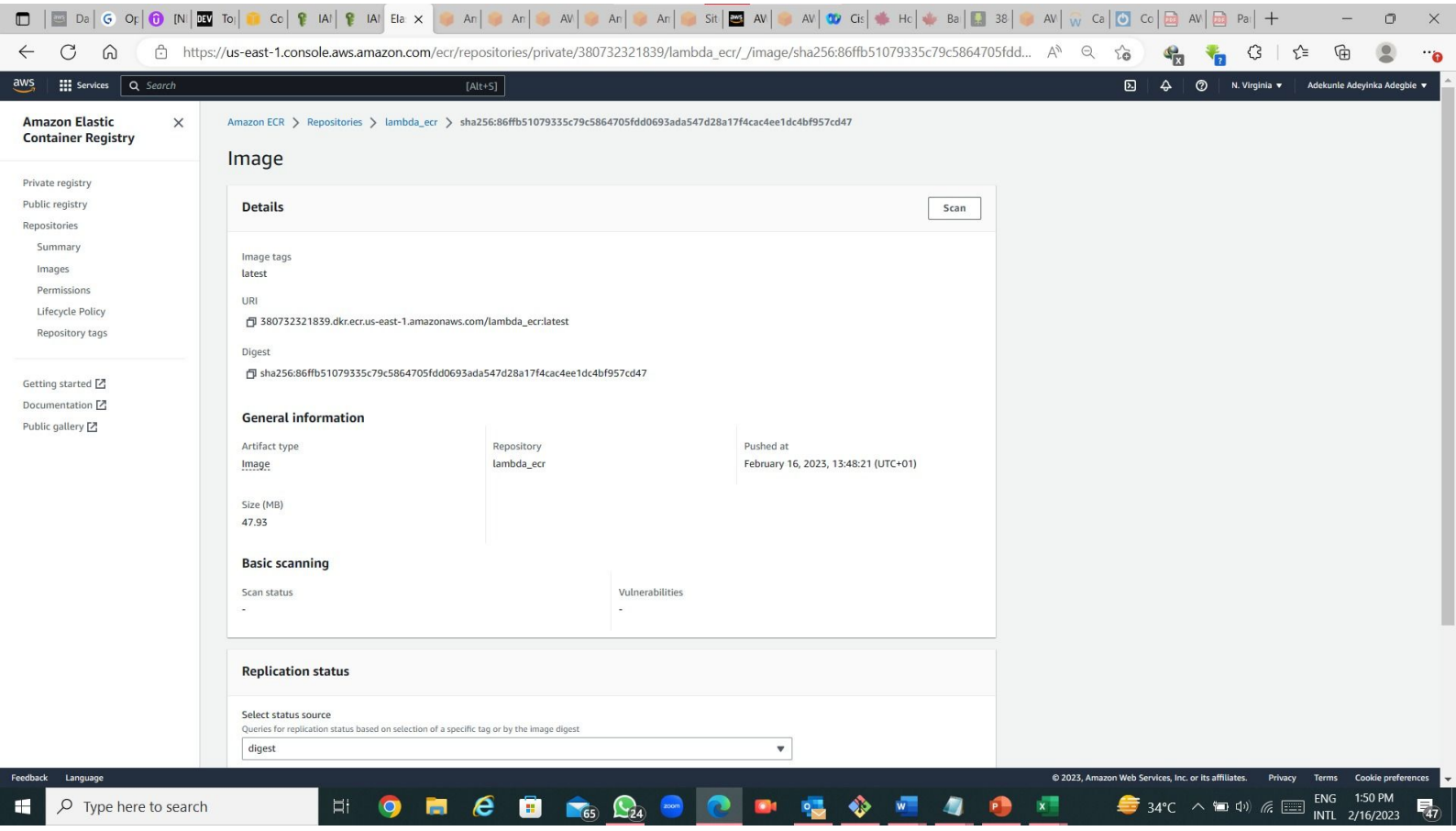
https://us-east-1.console.aws.amazon.com/ecr/repositories/private/380732321839/lambda_ecr/_/image/sha256:86ffb51079335c79c5864705fdd...
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Amazon Elastic Container Registry
Private registry
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Repositories
Summary
Images
Permissions
Lifecycle Policy
Repository tags
Getting started
Documentation
Public gallery
Amazon ECR > Repositories > lambda_ecr > sha256:86ffb51079335c79c5864705fdd0693ada547d28a17f4cac4ee1dc4bf957cd47
Image
Details
Scan
Image tags
latest
URI
380732321839.dkr.ecr.us-east-1.amazonaws.com/lambda_ecr:latest
Digest
sha256:86ffb51079335c79c5864705fdd0693ada547d28a17f4cac4ee1dc4bf957cd47
General information
Artifact type
Image
Repository
lambda_ecr
Pushed at
February 16, 2023, 13:48:21 (UTC+01)
Size (MB)
47.93
Basic scanning
Scan status
-
Vulnerabilities
-
Replication status
Select status source
Queries for replication status based on selection of a specific tag or by the image digest
digest
Feedback
Language
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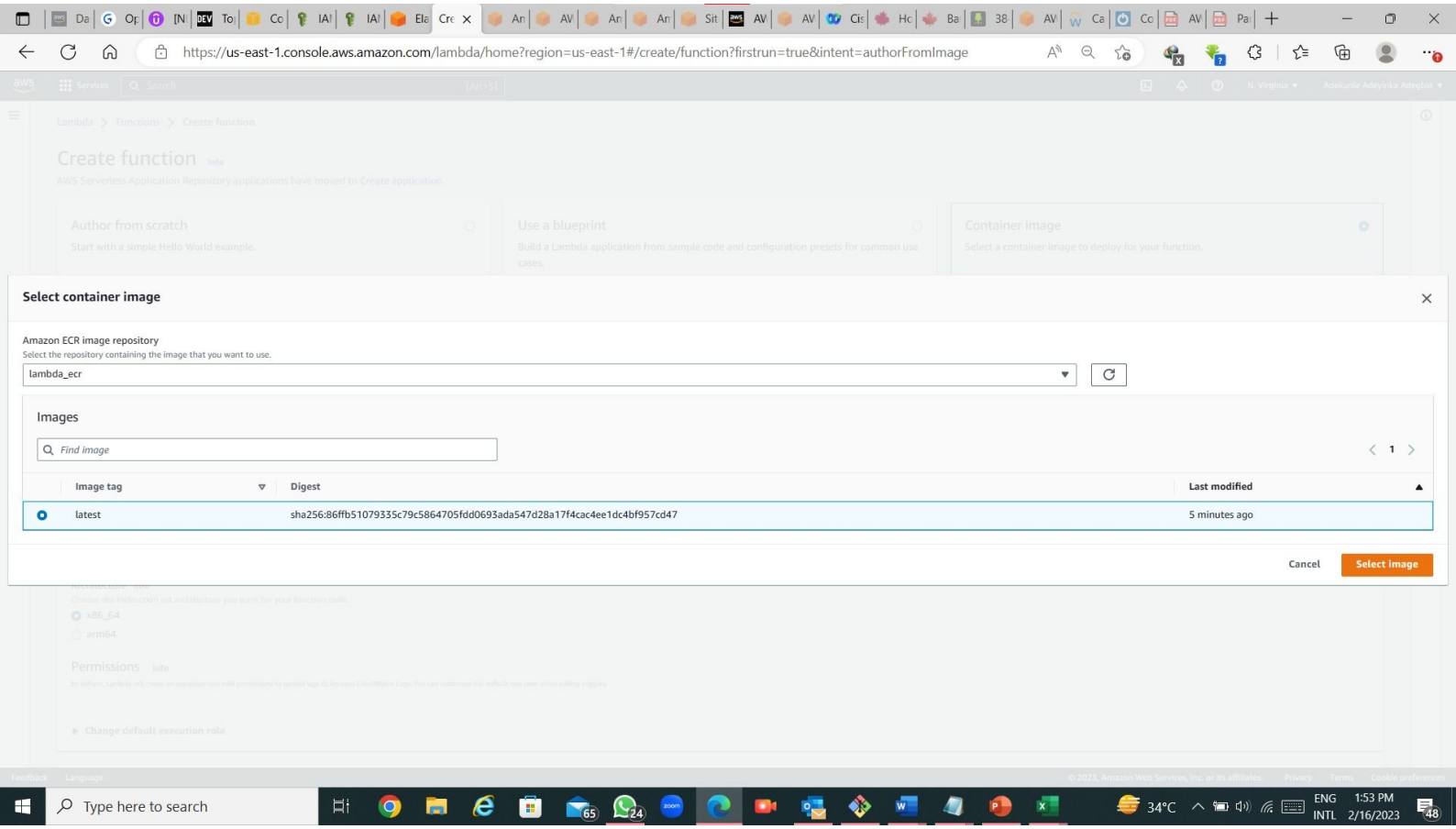
https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/create/function?firstrun=true&intent=authorFromImage
Create function
Author from scratch
Use a blueprint
Container image
Select container image
Amazon ECR image repository
Select the repository containing the image that you want to use.
lambda_ecr
Images
Find image
Image tag
Digest
Last modified
latest
sha256:86ffb51079335c79c5864705fdd0693ada547d28a17f4cac4ee1dc4bf957cd47
5 minutes ago
Cancel
Select image
Permissions
Type here to search
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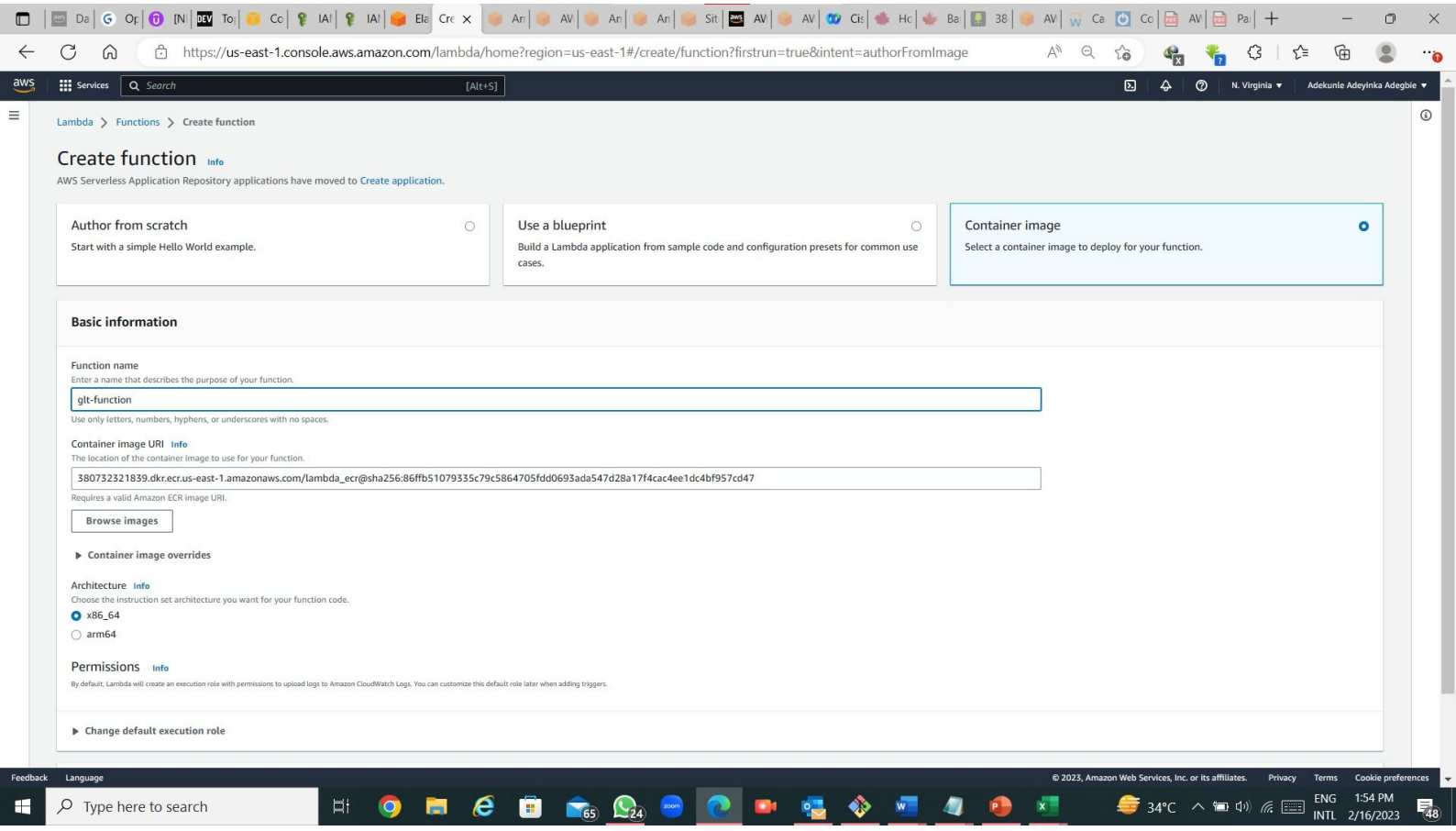
https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/create/function?firstrun=true&intent=authorFromImage
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Lambda > Functions > Create function
Create function Info
AWS Serverless Application Repository applications have moved to Create application.
Author from scratch
Start with a simple Hello World example.
Use a blueprint
Build a Lambda application from sample code and configuration presets for common use cases.
Container image
Select a container image to deploy for your function.
Basic information
Function name
Enter a name that describes the purpose of your function.
glt-function
Use only letters, numbers, hyphens, or underscores with no spaces.
Container image URI Info
The location of the container image to use for your function.
380732321839.dkr.ecr.us-east-1.amazonaws.com/lambda_ecr@sha256:86ffb51079335c79c5864705fdd0693ada547d28a17f4cac4ee1dc4bf957cd47
Requires a valid Amazon ECR image URI.
Browse images
Container image overrides
Architecture Info
Choose the instruction set architecture you want for your function code.
x86_64
arm64
Permissions Info
By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.
Change default execution role
Feedback
Language
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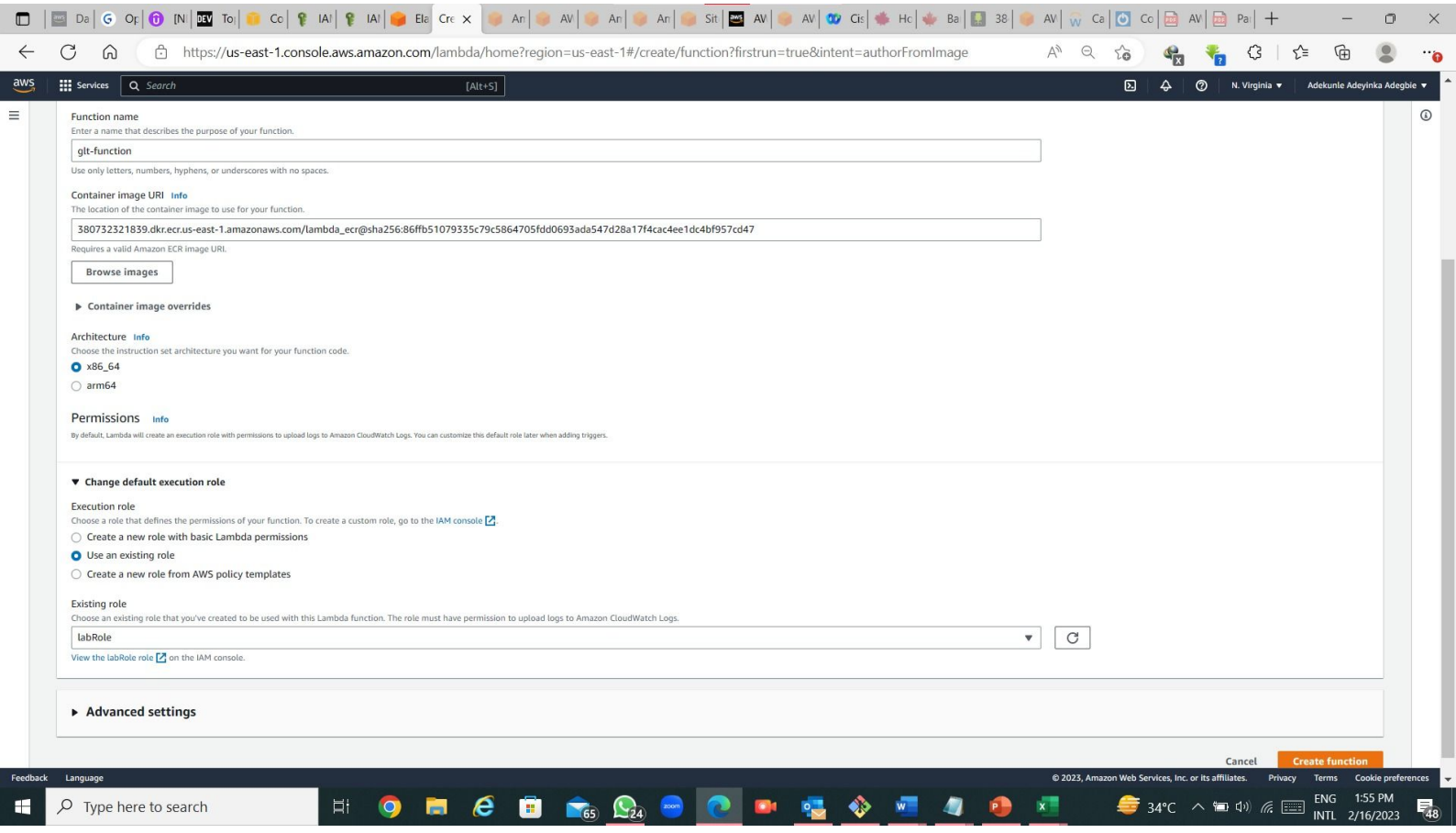
https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/create/function?firstrun=true&intent=authorFromImage
aws
Services
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Function name
Enter a name that describes the purpose of your function.
glt-function
Use only letters, numbers, hyphens, or underscores with no spaces.
Container image URI Info
The location of the container image to use for your function.
380732321839.dkr.ecr.us-east-1.amazonaws.com/lambda_ecr@sha256:86ffb51079335c79c5864705fdd0693ada547d28a17f4cac4ee1dc4bf957cd47
Requires a valid Amazon ECR image URI.
Browse images
Container image overrides
Architecture Info
Choose the instruction set architecture you want for your function code.
x86_64
arm64
Permissions Info
By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.
Change default execution role
Execution role
Choose a role that defines the permissions of your function. To create a custom role, go to the IAM console.
Create a new role with basic Lambda permissions
Use an existing role
Create a new role from AWS policy templates
Existing role
Choose an existing role that you've created to be used with this Lambda function. The role must have permission to upload logs to Amazon CloudWatch Logs.
labRole
View the labRole role on the IAM console.
Advanced settings
Cancel
Create function
Feedback
Language
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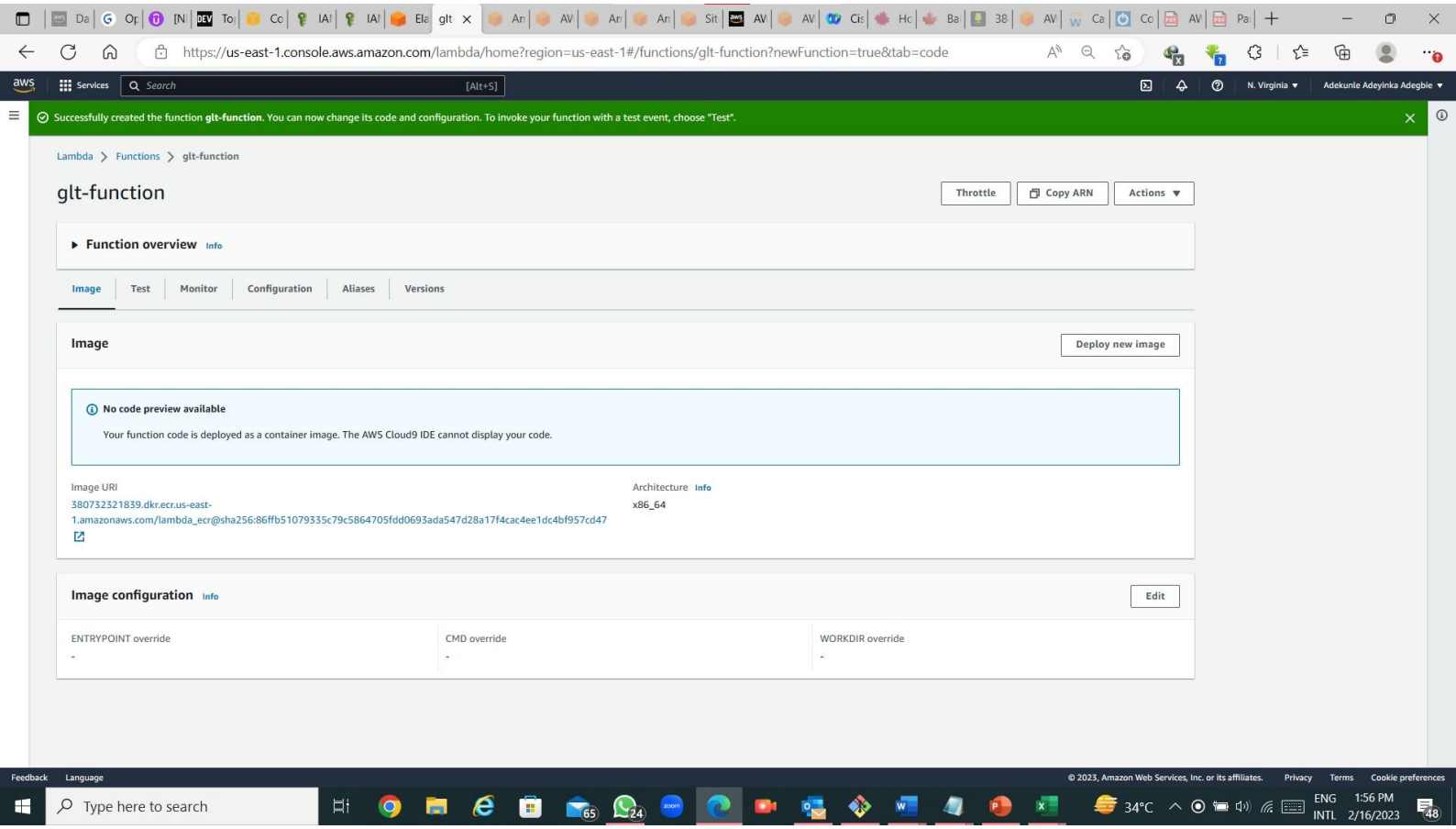
https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/glt-function?newFunction=true&tab=code
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Successfully created the function glt-function. You can now change its code and configuration. To invoke your function with a test event, choose "Test".
Lambda > Functions > glt-function
glt-function
Throttle
Copy ARN
Actions
Function overview Info
Image
Test
Monitor
Configuration
Aliases
Versions
Image
Deploy new image
No code preview available
Your function code is deployed as a container image. The AWS Cloud9 IDE cannot display your code.
Image URI
380732321839.dkr.ecr.us-east-1.amazonaws.com/lambda_ecr@sha256:86ffb51079335c79c5864705fdd0693ada547d28a17f4cac4ee1dc4bf957cd47
Architecture Info
x86_64
Image configuration Info
Edit
ENTRYPOINT override
-
CMD override
-
WORKDIR override
-
Feedback
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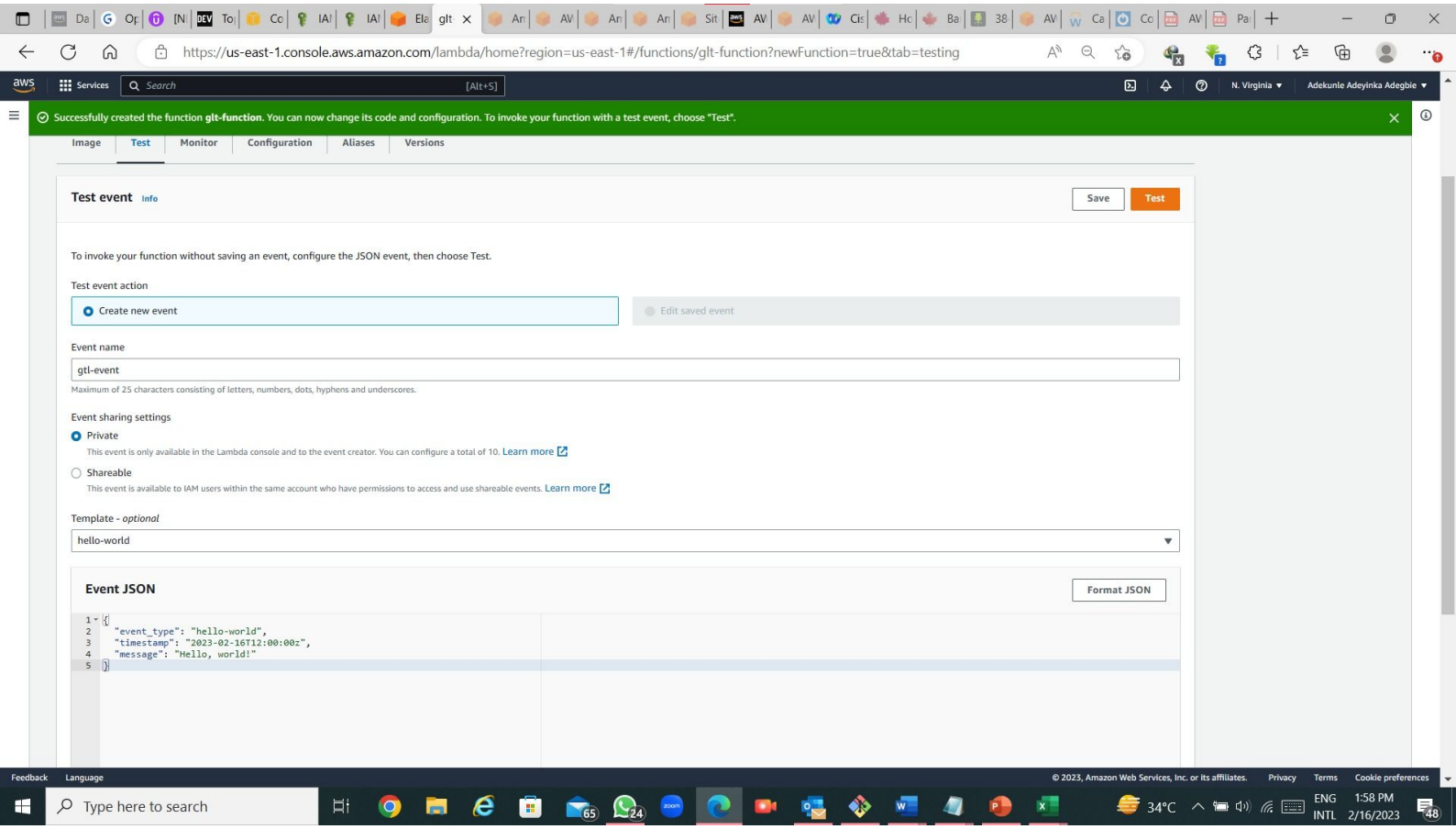
https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/glt-function?newFunction=true&tab=testing
Services
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Adekunle Adeyinka Adegbie
Successfully created the function glt-function. You can now change its code and configuration. To invoke your function with a test event, choose "Test".
Image
Test
Monitor
Configuration
Aliases
Versions
Test event
Info
Save
Test
To invoke your function without saving an event, configure the JSON event, then choose Test.
Test event action
Create new event
Edit saved event
Event name
gtl-event
Maximum of 25 characters consisting of letters, numbers, dots, hyphens and underscores.
Event sharing settings
Private
This event is only available in the Lambda console and to the event creator. You can configure a total of 10. Learn more
Shareable
This event is available to IAM users within the same account who have permissions to access and use shareable events. Learn more
Template - optional
hello-world
Event JSON
Format JSON
{
"event_type": "hello-world",
"timestamp": "2023-02-16T12:00:00z",
"message": "Hello, world!"
}
Feedback
Language
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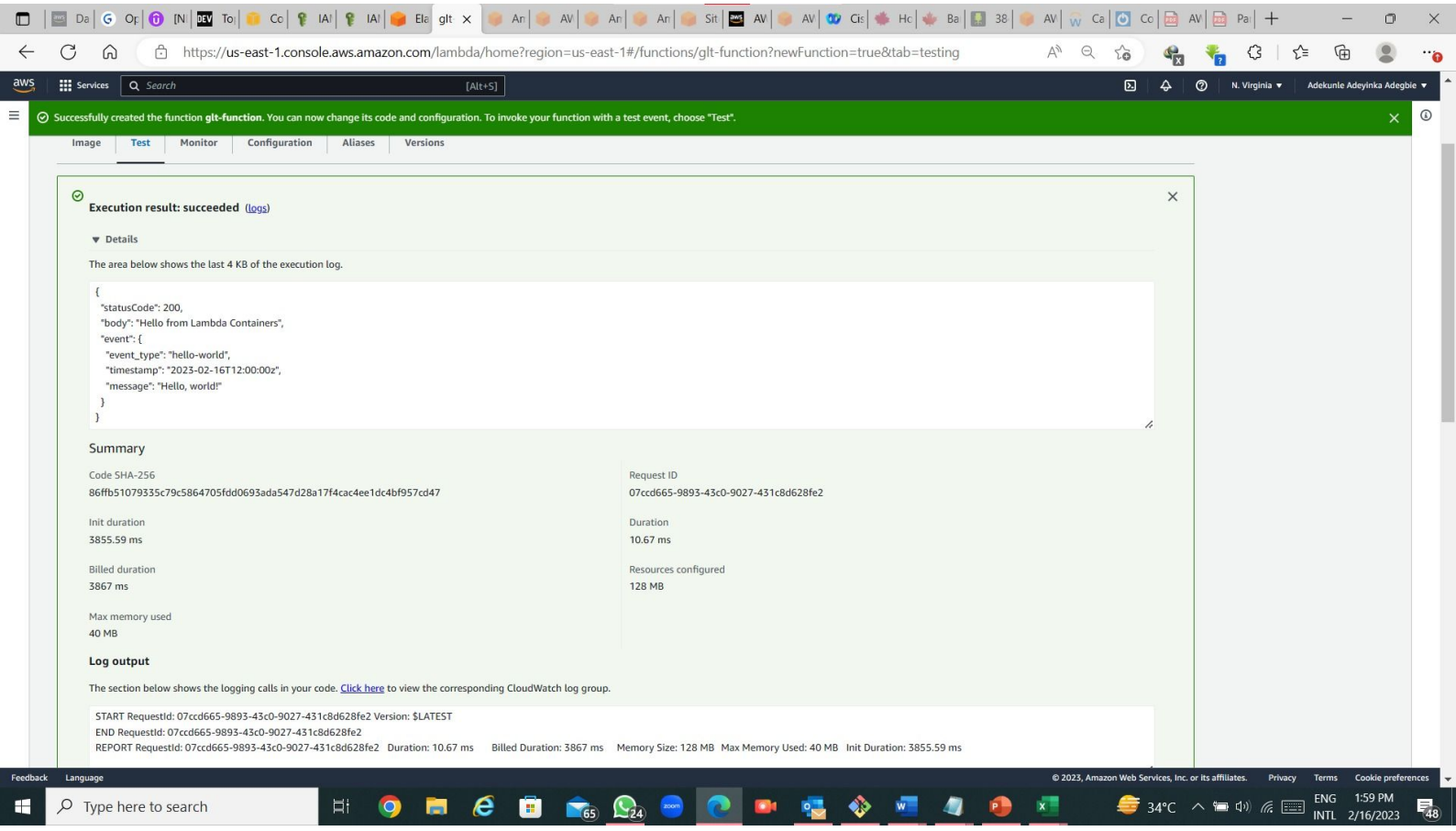
ENG
INTL
1:58 PM
2/16/2023


https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/glt-function?newFunction=true&tab=testing
Services
Search
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N. Virginia
Adekunle Adeyinka Adegbie
Successfully created the function glt-function. You can now change its code and configuration. To invoke your function with a test event, choose "Test".
Image
Test
Monitor
Configuration
Aliases
Versions
Execution result: succeeded (logs)
Details
The area below shows the last 4 KB of the execution log.
{
"statusCode": 200,
"body": "Hello from Lambda Containers",
"event": {
"event_type": "hello-world",
"timestamp": "2023-02-16T12:00:00z",
"message": "Hello, world!"
}
}
Summary
Code SHA-256
86ffb51079335c79c5864705fdd0693ada547d28a17f4cac4ee1dc4bf957cd47
Request ID
07ccd665-9893-43c0-9027-431c8d628fe2
Init duration
3855.59 ms
Duration
10.67 ms
Billed duration
3867 ms
Resources configured
128 MB
Max memory used
40 MB
Log output
The section below shows the logging calls in your code. Click here to view the corresponding CloudWatch log group.
START RequestId: 07ccd665-9893-43c0-9027-431c8d628fe2 Version: $LATEST
END RequestId: 07ccd665-9893-43c0-9027-431c8d628fe2
REPORT RequestId: 07ccd665-9893-43c0-9027-431c8d628fe2 Duration: 10.67 ms Billed Duration: 3867 ms Memory Size: 128 MB Max Memory Used: 40 MB Init Duration: 3855.59 ms
Feedback
Language
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ENG
INTL
1:59 PM
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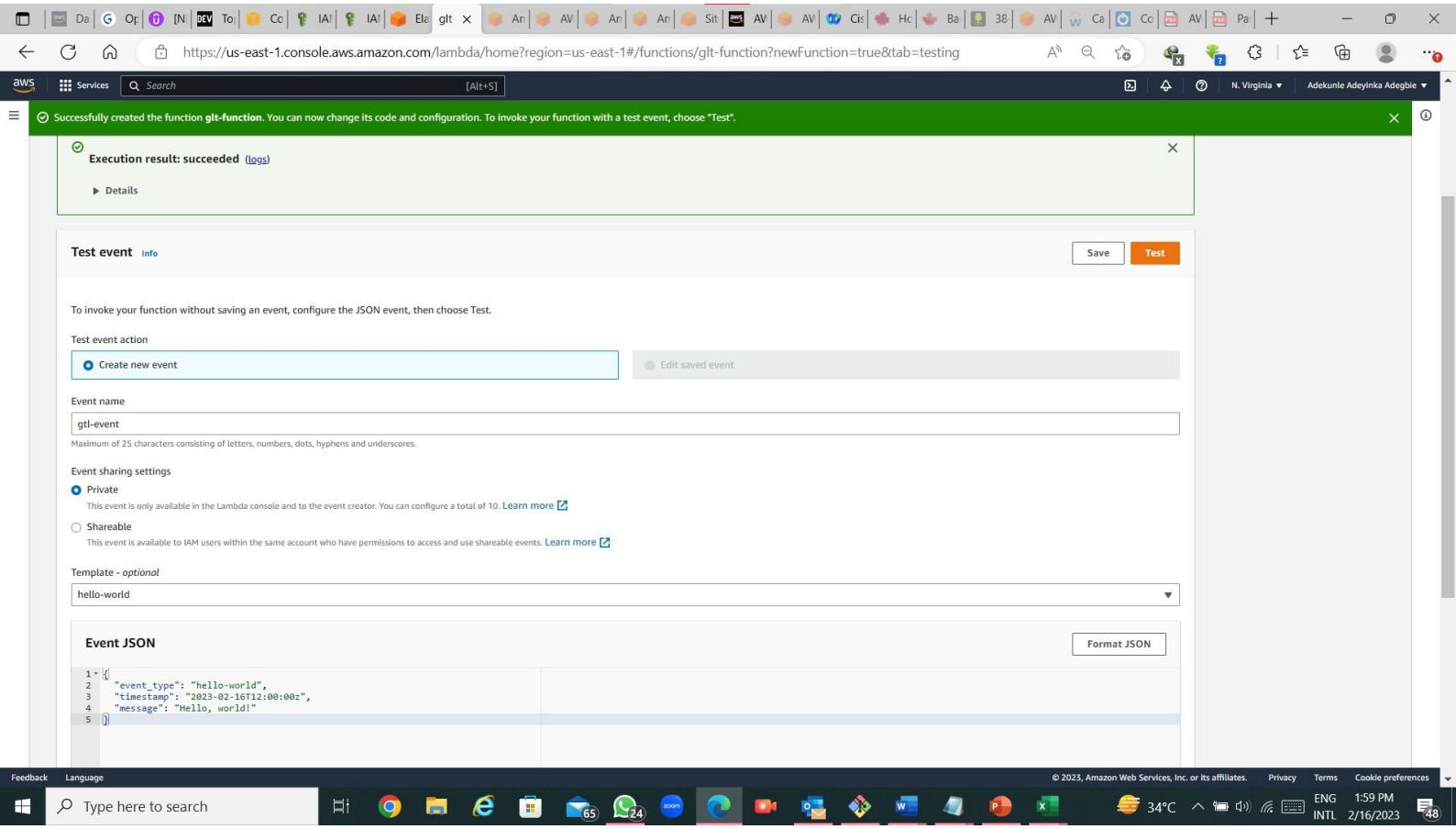
https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/glt-function?newFunction=true&tab=testing
Services
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Adekunle Adeyinka Adegbie
Successfully created the function glt-function. You can now change its code and configuration. To invoke your function with a test event, choose "Test".
Execution result: succeeded (logs)
Details
Test event Info
Save
Test
To invoke your function without saving an event, configure the JSON event, then choose Test.
Test event action
Create new event
Edit saved event
Event name
gtl-event
Maximum of 25 characters consisting of letters, numbers, dots, hyphens and underscores.
Event sharing settings
Private
This event is only available in the Lambda console and to the event creator. You can configure a total of 10. Learn more
Shareable
This event is available to IAM users within the same account who have permissions to access and use shareable events. Learn more
Template - optional
hello-world
Event JSON
Format JSON
{
"event_type": "hello-world",
"timestamp": "2023-02-16T12:00:00z",
"message": "Hello, world!"
}
Feedback
Language
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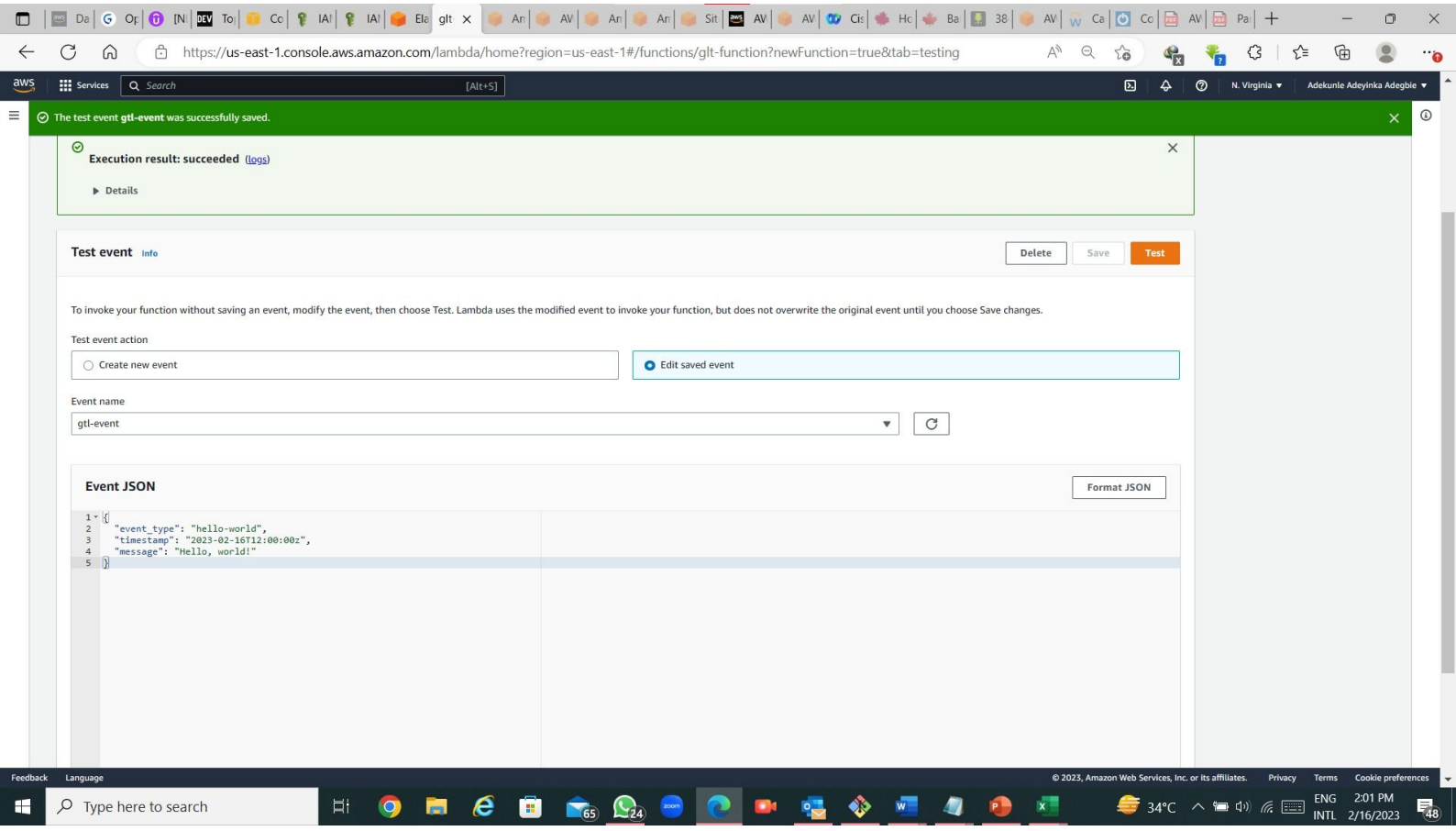
ENG
INTL
1:59 PM
2/16/2023


https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/glt-function?newFunction=true&tab=testing
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The test event gtl-event was successfully saved.
Execution result: succeeded (logs)
Details
Test event Info
Delete
Save
Test
To invoke your function without saving an event, modify the event, then choose Test. Lambda uses the modified event to invoke your function, but does not overwrite the original event until you choose Save changes.
Test event action
Create new event
Edit saved event
Event name
gtl-event
Event JSON
Format JSON
{
"event_type": "hello-world",
"timestamp": "2023-02-16T12:00:00z",
"message": "Hello, world!"
}
Feedback
Language
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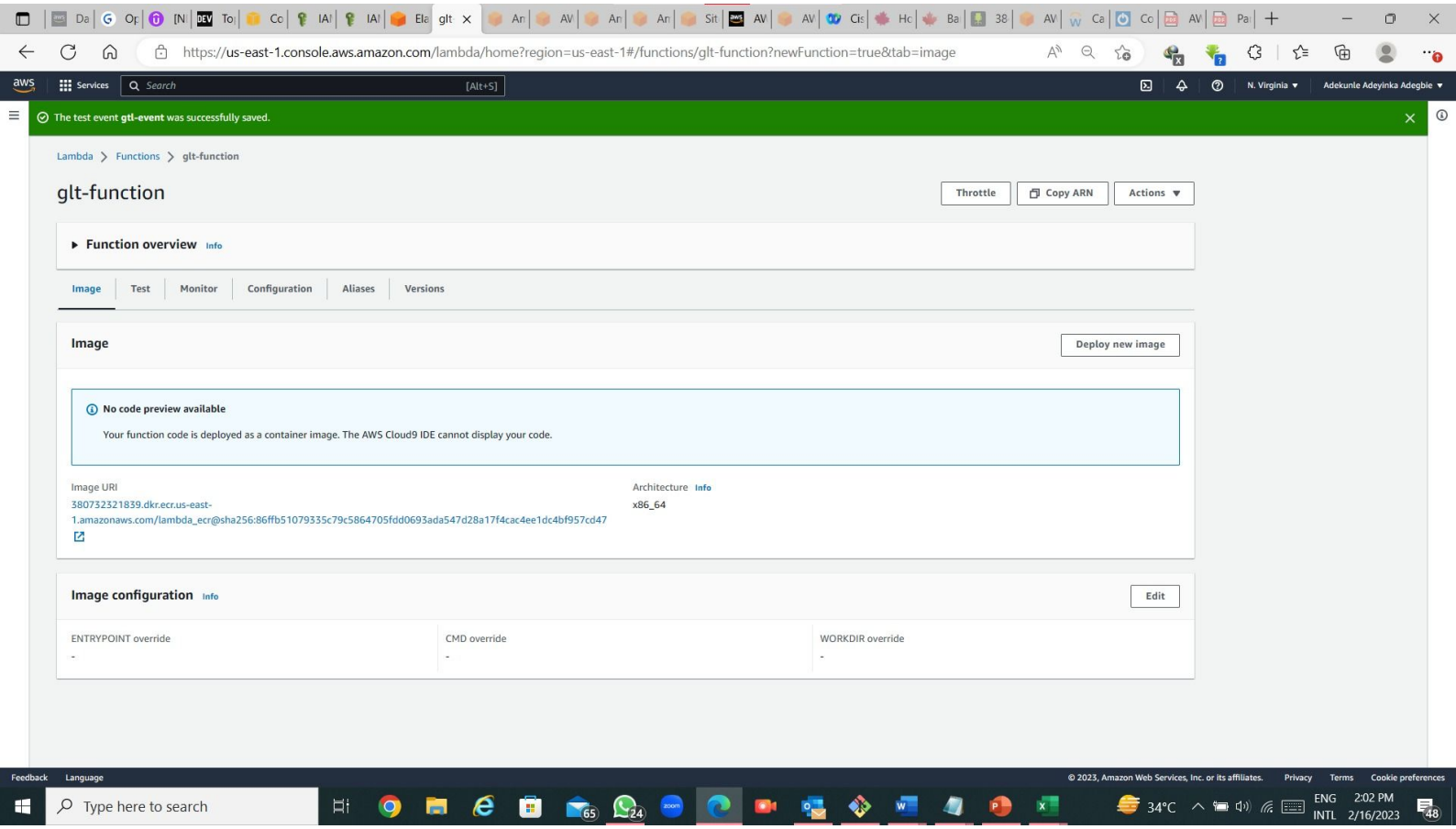
https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/glt-function?newFunction=true&tab=image
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The test event gtl-event was successfully saved.
Lambda > Functions > glt-function
glt-function
Throttle
Copy ARN
Actions
Function overview Info
Image
Test
Monitor
Configuration
Aliases
Versions
Image
Deploy new image
No code preview available
Your function code is deployed as a container image. The AWS Cloud9 IDE cannot display your code.
Image URI
380732321839.dkr.ecr.us-east-1.amazonaws.com/lambda_ecr@sha256:86ffb51079335c79c5864705fdd0693ada547d28a17f4cac4ee1dc4bf957cd47
Architecture Info
x86_64
Image configuration Info
Edit
ENTRYPOINT override
-
CMD override
-
WORKDIR override
-
Feedback
Language
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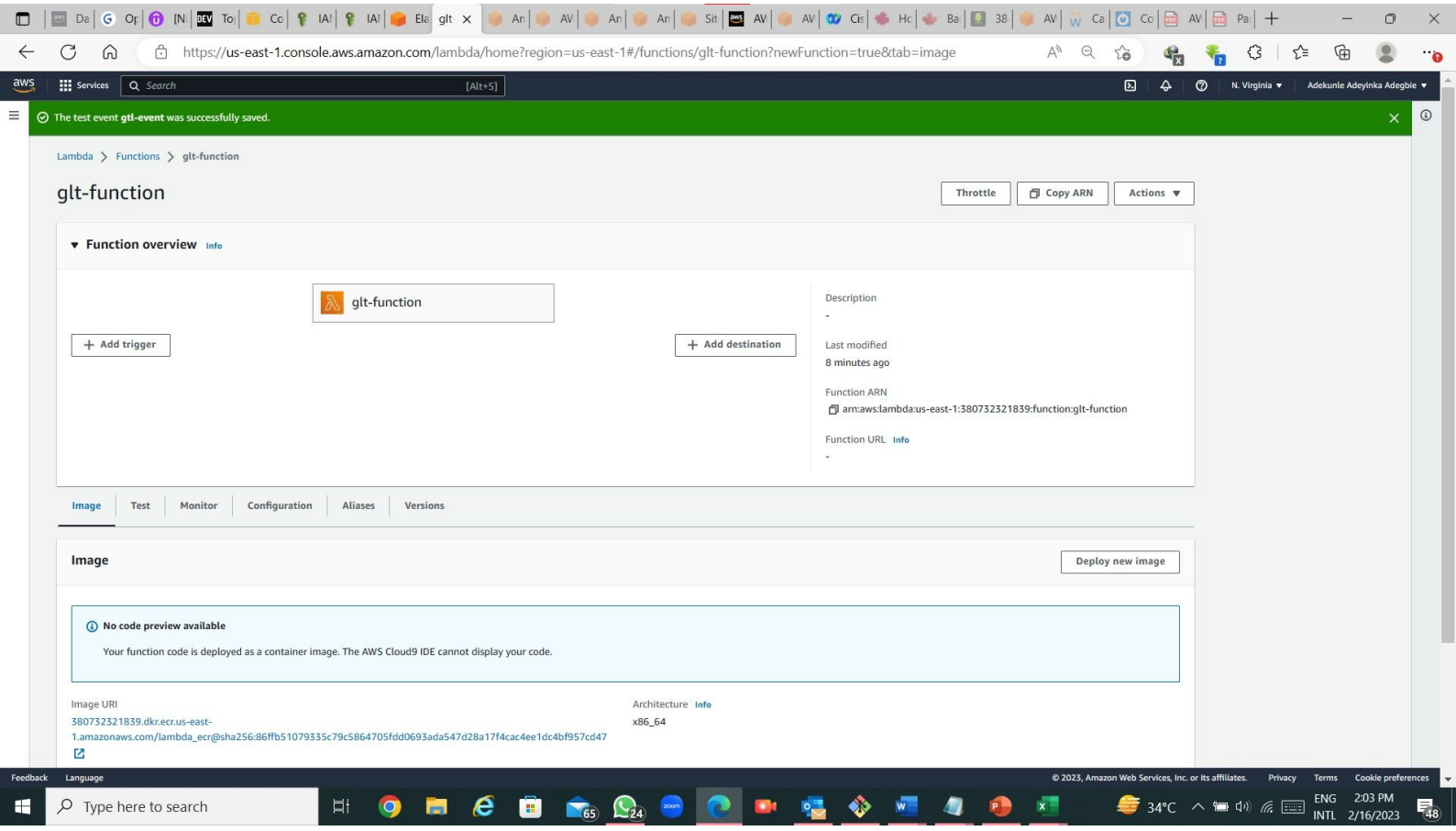
https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/glt-function?newFunction=true&tab=image
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The test event gtl-event was successfully saved.
Lambda > Functions > glt-function
glt-function
Throttle
Copy ARN
Actions
Function overview Info
glt-function
Add trigger
Add destination
Description
-
Last modified
8 minutes ago
Function ARN
arn:aws:lambda:us-east-1:380732321839:function:glt-function
Function URL Info
-
Image
Test
Monitor
Configuration
Aliases
Versions
Image
Deploy new image
No code preview available
Your function code is deployed as a container image. The AWS Cloud9 IDE cannot display your code.
Image URI
380732321839.dkr.ecr.us-east-1.amazonaws.com/lambda_ecr@sha256:86ffb51079335c79c5864705fdd0693ada547d28a17f4cac4ee1dc4bf957cd47
Architecture Info
x86_64
Feedback
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Answer the following questions

Q1 How long does a container stay in the running state if it is not manually halted?

a) As long as the container's PID 1 is running

b) Has a set timeout after which it pauses

c) Until its container is expunged

d) Docker daemon process scheduler decides on load

Enter your answer here A

Q2 Which of the following best illustrates the relationship between an image and a container?

a) Executable and its hard link

b) Executable and process

c) Parent and child process

d) Many to one

Enter your answer here B

Q3 What is the maximum amount of RAM a container can consume if the memory flag is not used?

a) 8GiB

b) 32GiB

c) None of these

d) As much as the host instance has free

Enter your answer here B

Q4 Which of the following will happen in the same Docker image is pushed to Docker Hub multiple times with different tags

a) Dockerhub will refuse to upload the image

b) The layers in the first image (if unchanged) will be reused in subsequent pushes

c) Dockerhub will merge the images

d) The same image cannot have multiple tags

Enter your answer here B

Q5 Which of the following will run a Docker container in interactive mode?

a) -v

b) -it

c) -b

d) -u

Enter your answer here | B

Q6 How would data persistence be handled in a container environment set up for autoscaling?

Data persistence in a container environment set up for autoscaling can be a challenge because containers are designed to be ephemeral, meaning that they can be created and destroyed dynamically as needed. Therefore, if you have persistent data that needs to be stored across container instances, you will need to implement a strategy for managing that data.

One approach is to use external storage solutions that are decoupled from the container environment. This can include solutions like network-attached storage (NAS), storage area networks (SAN), or cloud-based object storage. By using an external storage solution, you can keep your data separate from your containers, and ensure that it is available to all container instances in the autoscaling group.

Another approach is to use container-specific solutions for data persistence, such as container volumes or data-only containers. These solutions allow you to store data within the container environment and make it available to all container instances in the autoscaling group. However, it is important to note that this approach can increase complexity and potentially create data consistency issues, especially when multiple containers need to write to the same volume simultaneously.

In addition to data persistence, it's also important to consider data replication and synchronization in an autoscaling container environment. This can involve implementing solutions such as database clustering, or replication, to ensure that data is consistently available across all container instances. It may also be necessary to implement solutions for data backups and disaster recovery, to protect against data loss in the event of a failure or outage.

Q7 Why is this statement false? "Docker is the only popular choice for microservices deployment".

The statement "Docker is the only popular choice for microservices deployment" is false because there are other popular choices for microservices deployment, in addition to Docker. While Docker is a widely used containerization platform and is often associated with microservices deployment, it is not the only option available.

Some other popular choices for microservices deployment include:

1. Kubernetes: Kubernetes is an open-source container orchestration platform that can be used to manage and deploy microservices across a distributed infrastructure.
2. Apache Mesos: Apache Mesos is a cluster manager that provides resource isolation and sharing across distributed applications, making it well-suited for microservices deployment.
3. AWS Elastic Beanstalk: AWS Elastic Beanstalk is a cloud-based platform that enables developers to deploy, manage, and scale web applications and services, including microservices.
4. Google App Engine: Google App Engine is a platform-as-a-service (PaaS) offering that enables developers to build and deploy applications, including microservices, on Google's cloud infrastructure.
5. Microsoft Azure Service Fabric: Microsoft Azure Service Fabric is a distributed systems platform that provides a foundation for building and deploying microservices-based applications.

These are just a few examples of other popular choices for microservices deployment that are available. The choice of platform will depend on factors such as the specific requirements of the application, the organization's existing infrastructure and tools, and the preferences and expertise of the development team.