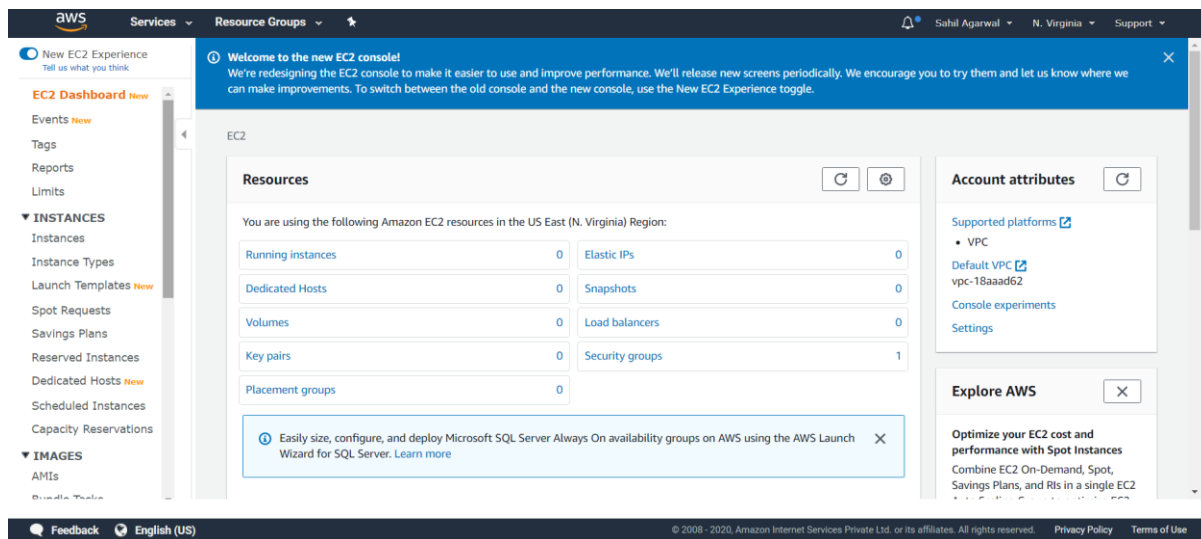
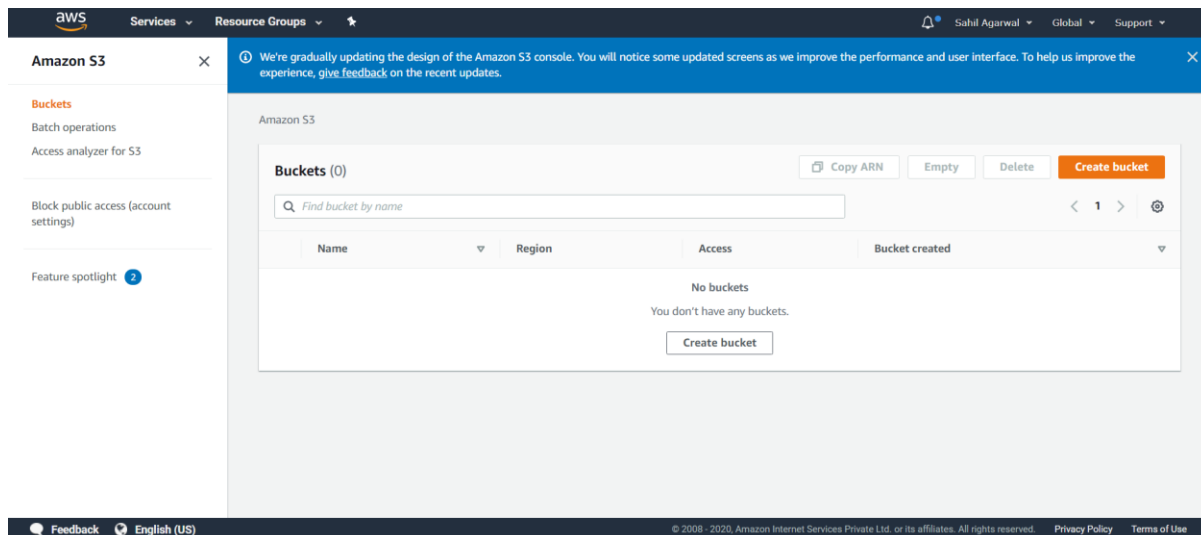


Screenshots needed for Dashboards

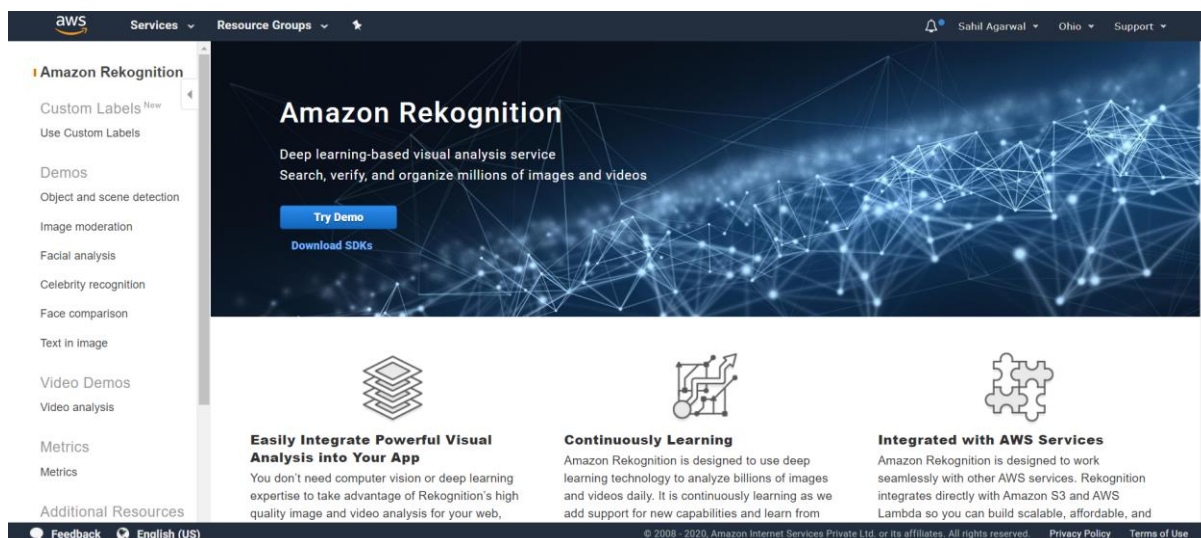
1.EC2 DASHBOARD




2.S3 DASHBOARD



3.FACE RECOGNITION DASHBOARD



4.LOGIN SCREEN



Sign in

☒ **Root user**
Account owner that performs tasks requiring unrestricted access. [Learn more](#)



☐ **IAM user**
User within an account that performs daily tasks. [Learn more](#)

Root user email address

☐ New to AWS?

AWS RoboMaker


Simulate, test & deploy robotic applications at scale.



About Amazon.com Sign In
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Screenshots needed for EC2

1.Choose an AMI



Services ▾ Resource Groups ▾

Sahil Agarwal ▾ Ohio ▾ Support ▾

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.


Quick Start

My AMIs


AWS Marketplace

Community AMIs


☐ Free tier only

**Amazon Linux 2 AMI (HVM), SSD Volume Type** - ami-0e01ce4ee18447327 (64-bit x86) / ami-03201f374ab66a26e (64-bit Arm)
Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.28, Binutils 2.29.1, and the latest software packages through extras.
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

☒ 64-bit (x86)
☐ 64-bit (Arm)

**Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type** - ami-01b01bbd08f24c7a8
The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes


☐ 64-bit (x86)

**Red Hat Enterprise Linux 8 (HVM), SSD Volume Type** - ami-0520e698dd500b1d1 (64-bit x86) / ami-0099847d600887c9f (64-bit Arm)
Red Hat Enterprise Linux version 8 (RHEL) ERS General Purpose (SSD) Volume Type

Feedback English (US)

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2.Choose an instance



Services ▾ Resource Groups ▾

Sahil Agarwal ▾ Ohio ▾ Support ▾

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 2: Choose an Instance Type

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family ▾	Type ▾	vCPUs ▾	Memory (GiB) ▾	Instance Storage (GB) ▾	EBS-Optimized Available ▾	Network Performance ▾	IPv6 Support ▾
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	t3a.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	General purpose	t3a.micro	2	1	EBS only	Yes	Up to 5 Gigabit	Yes

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3.configure instance details

aws

Services

Resource Groups

Sahil Agarwal

Ohio

Support

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances

1

Launch into Auto Scaling Group

Purchasing option

☐ Request Spot instances

Network

vpc-64130f0c (default)

Create new VPC

Subnet

No preference (default subnet in any Availability Zone)

Create new subnet

Auto-assign Public IP

Use subnet setting (Enable)

Placement group

☐ Add instance to placement group

Capacity Reservation

Open

Create new Capacity Reservation

IAM role

None

Create new IAM role

Shutdown behavior

Stop

Stop - Hibernate behavior

☐ Enable hibernation as an additional stop behavior

Enable termination protection

☐ Protect against accidental termination

Cancel

Previous

Review and Launch

Next: Add Storage

Feedback

English (US)

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4.Add storage

aws

Services

Resource Groups

Sahil Agarwal

Ohio

Support

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption
Root	/dev/xvda	snap-0f54692056aaa4c20	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

Cancel

Previous

Review and Launch

Next: Add Tags

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5.Add Tags

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Services

Resource Groups

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Support

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. A copy of a tag can be applied to volumes, instances or both. Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key	Value	Instances	Volumes
This resource currently has no tags			
Choose the Add tag button or click to add a Name tag.			
Make sure your IAM policy includes permissions to create tags.			

Add Tag (Up to 50 tags maximum)

Cancel

Previous

Review and Launch

Next: Configure Security Group

Feedback

English (US)

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6. Configure security groups

aws

Services

Resource Groups

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1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a new security group ☐ Select an existing security group

Security group name:

Description:

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop

Add Rule

Warning

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

CancelPreviousReview and Launch

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7. Review Instance launch

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Services

Resource Groups

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1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

Step 7: Review Instance Launch

Instance Type

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

Edit instance type

Security Groups

Security group name

launch-wizard-1

Description

launch-wizard-1 created 2020-04-03T19:51:49.864+05:30

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	0.0.0.0/0	

Edit security groups

Instance Details

Storage

Tags

Edit instance details

Edit storage

Edit tags

CancelPreviousLaunch

https://us-east-2.console.aws.amazon.com/console/home?region=us-east-2© 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy PolicyTerms of Use

8. Key Pair Download

aws

Services

Resource Groups

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1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

Step 7: Review Instance Launch

Instance Type

Instance Type	ECUs	vCPUs
t2.micro	Variable	1

Edit instance type

Security Groups

Security group name

launch-wizard-1

Description

launch-wizard-1 created 2020-04-03T19:51:49.864+05:30

Type	Protocol
SSH	TCP

Edit security groups

Instance Details

Storage

Tags

Edit instance details

Edit storage

Edit tags

CancelPreviousLaunch

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. [Learn more](#) about removing existing key pairs from a public AMI.

Create a new key pair

Key pair name

face-detect

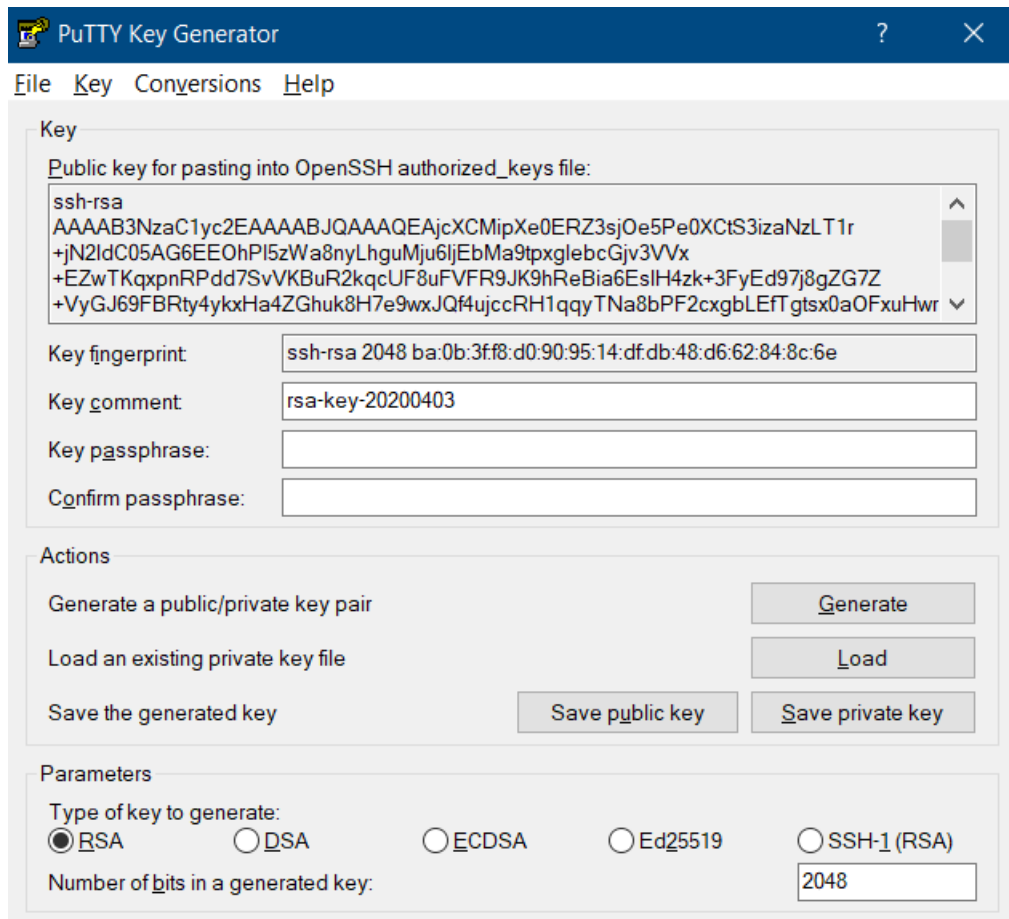
Download Key Pair

You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

CancelLaunch Instances

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9. Putty key conversion from pem to ppk



The image shows the PuTTY Key Generator window. The 'Key' tab is selected. The 'Public key for pasting into OpenSSH authorized_keys file:' text area contains the following text: ssh-rsa AAAAB3NzaC1yc2EAAAABJQAAAQEAjcXMipXe0ERZ3sjOe5Pe0XCtS3izaNzLT1r+jN2ldC05AG6EEOhPI5zWa8nyLhguMju6ljEbMa9tpxglebcGjv3VVx+EZwTKqxpnpRPdd7SvVKBuR2kqcUF8uFVFR9JK9hReBia6EsIH4zk+3FyEd97j8gZG7Z+VyGJ69FBRty4ykxHa4ZGhuk8H7e9wxJQf4ujccRH1qqyTNa8bPF2cxgbLEfTgtsx0aOFxuHwr. Below this, the 'Key fingerprint' is displayed as ssh-rsa 2048 ba:0b:3f:f8:d0:90:95:14:df:db:48:d6:62:84:8c:6e. The 'Key comment' is rsa-key-20200403. The 'Key passphrase' and 'Confirm passphrase' fields are empty. In the 'Actions' section, the 'Generate' button is highlighted. In the 'Parameters' section, 'Type of key to generate:' has 'RSA' selected, and 'Number of bits in a generated key:' is set to 2048.

PuTTY Key Generator

File Key Conversions Help

Key

Public key for pasting into OpenSSH authorized_keys file:

```
ssh-rsa
AAAAB3NzaC1yc2EAAAABJQAAAQEAjcXMipXe0ERZ3sjOe5Pe0XCtS3izaNzLT1r
+jN2ldC05AG6EEOhPI5zWa8nyLhguMju6ljEbMa9tpxglebcGjv3VVx
+EZwTKqxpnpRPdd7SvVKBuR2kqcUF8uFVFR9JK9hReBia6EsIH4zk+3FyEd97j8gZG7Z
+VyGJ69FBRty4ykxHa4ZGhuk8H7e9wxJQf4ujccRH1qqyTNa8bPF2cxgbLEfTgtsx0aOFxuHwr
```

Key fingerprint: ssh-rsa 2048 ba:0b:3f:f8:d0:90:95:14:df:db:48:d6:62:84:8c:6e

Key comment: rsa-key-20200403

Key passphrase:

Confirm passphrase:

Actions

Generate a public/private key pair Generate

Load an existing private key file Load

Save the generated key Save public key Save private key

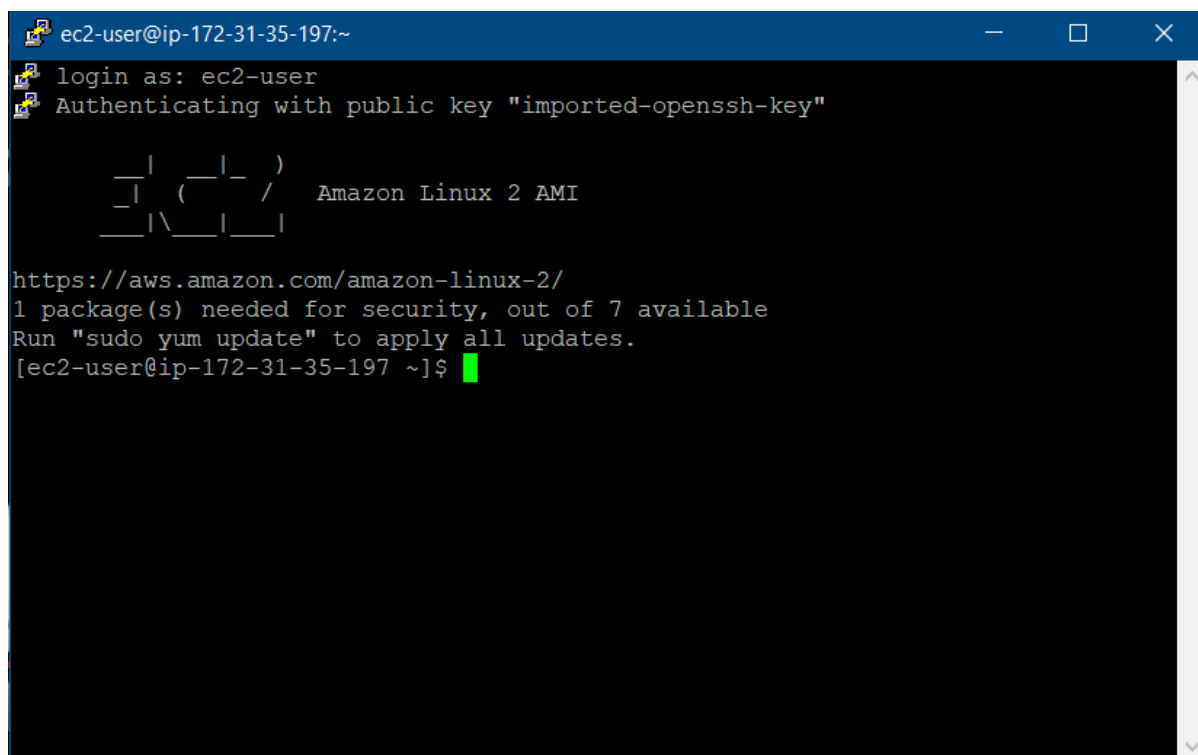
Parameters

Type of key to generate:

☒ RSA ☐ DSA ☐ ECDSA ☐ Ed25519 ☐ SSH-1 (RSA)

Number of bits in a generated key: 2048

10. Logged in EC2 black screen



The image shows a terminal window with the title 'ec2-user@ip-172-31-35-197:~'. The terminal output shows the login process: 'login as: ec2-user', 'Authenticating with public key "imported-openssh-key"', and a ASCII art logo for Amazon Linux 2 AMI. Below the logo, the URL 'https://aws.amazon.com/amazon-linux-2/' is displayed, followed by the message '1 package(s) needed for security, out of 7 available' and 'Run "sudo yum update" to apply all updates.' The prompt '[ec2-user@ip-172-31-35-197 ~]\$' is shown with a green cursor.

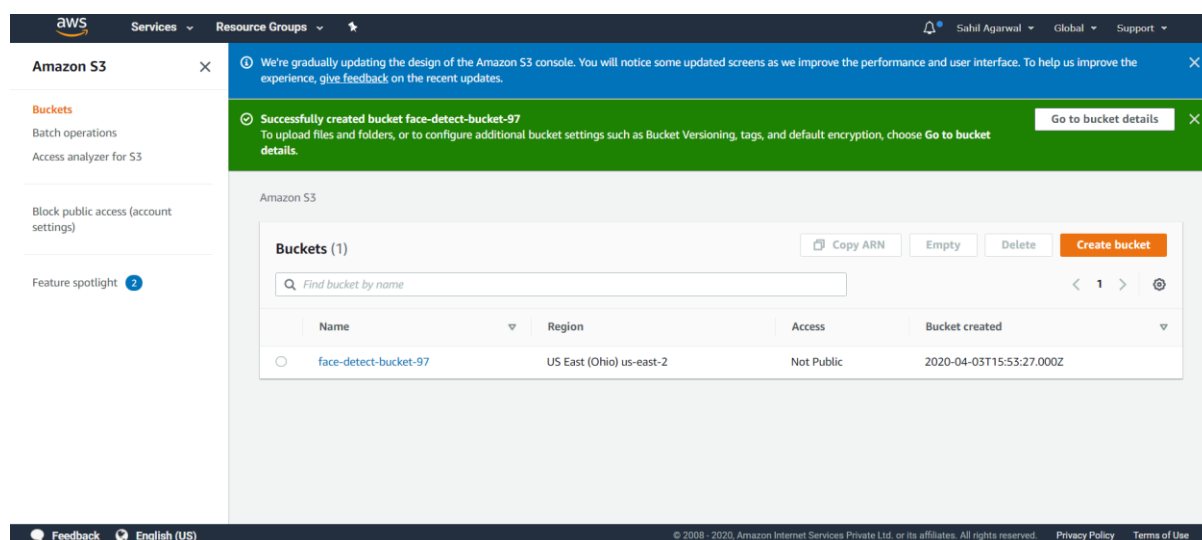
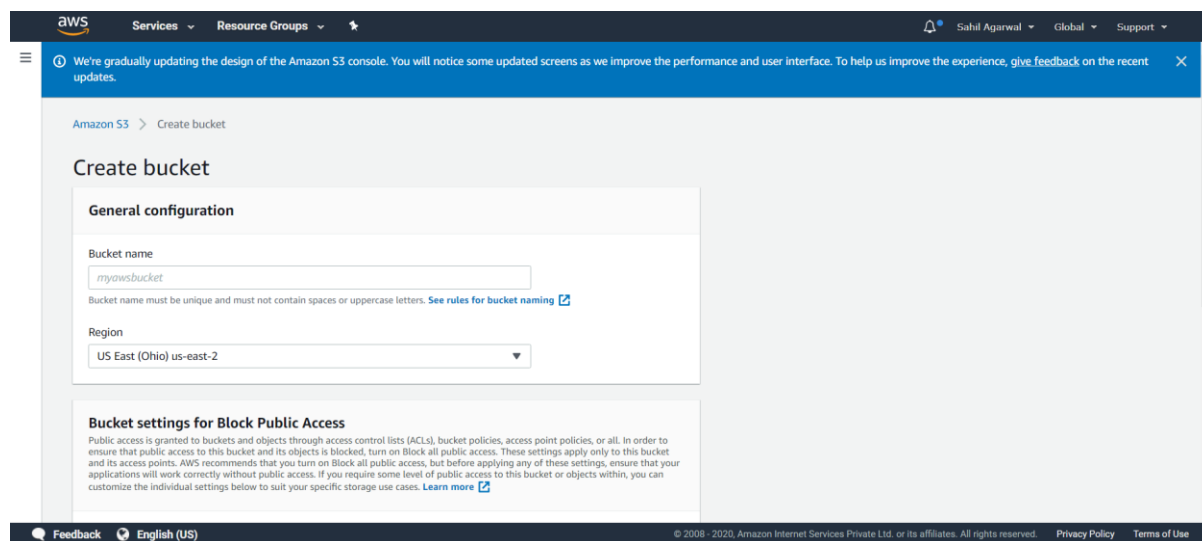
```
ec2-user@ip-172-31-35-197:~
login as: ec2-user
Authenticating with public key "imported-openssh-key"

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

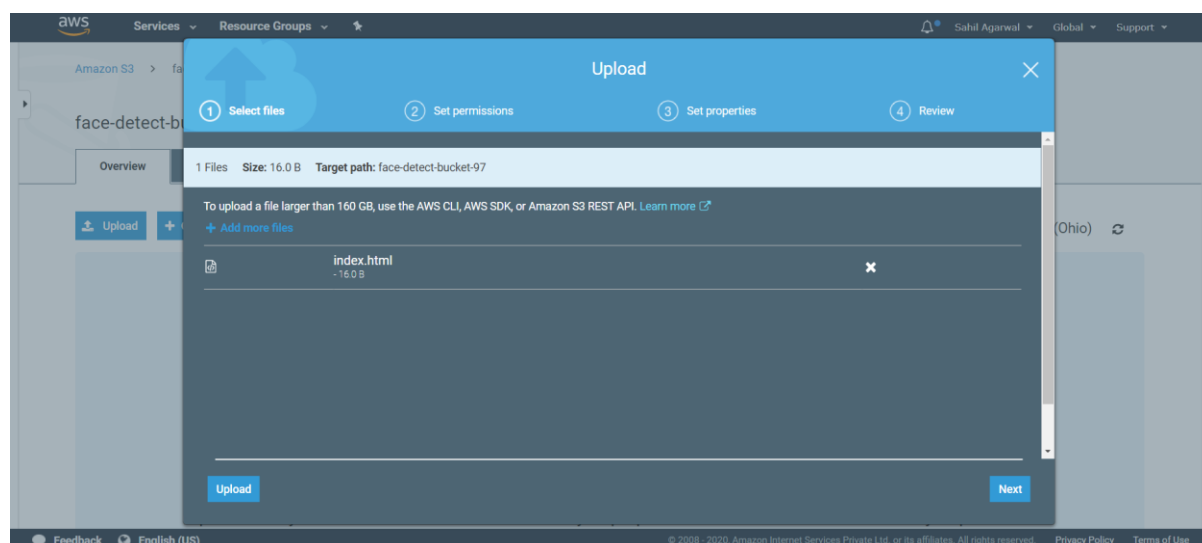
https://aws.amazon.com/amazon-linux-2/
1 package(s) needed for security, out of 7 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-35-197 ~]$
```

Screenshots needed for S3

1. Create bucket



2. Uploading an Object



aws Services Resource Groups

Amazon S3 > face-detect-bucket-97

face-detect-bucket-97

Overview Properties Permissions Management Access points

Upload + Create folder Download Actions

US East (Ohio)

Viewing 1 to 1

Name	Last modified	Size	Storage class
index.html	Apr 3, 2020 9:29:04 PM GMT+0530	16.0 B	Standard

Viewing 1 to 1

Operations 0 In progress 1 Success 0 Error

Feedback English (US)

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3. Enabling Static Website

aws Services Resource Groups

Amazon S3 > face-detect-bucket-97

face-detect-bucket-97

Overview Properties Permissions Management Access points

Versioning

Keep multiple versions of an object in the same bucket.

[Learn more](#)

Disabled

Server access logging

Set up access log records that provide details about access requests.

[Learn more](#)

Disabled

Static website hosting

Host a static website, which does not require server-side technologies.

[Learn more](#)

Bucket hosting

Object-level logging

Record object-level API activity using the CloudTrail data events feature (additional cost).

[Learn more](#)

Disabled

Default encryption

Automatically encrypt objects when stored in Amazon S3

Feedback English (US)

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4. Making the Object Public

aws Services Resource Groups

Amazon S3 > face-detect-bucket-97 > index.html

index.html

Latest version

Overview Properties Permissions Select from

Success

Open Download Download as Make public Copy path

Owner
d1bc513895d30f9813ff63fd2153c6a97c9a2c46eea180c8cc99aeee635e401

Last modified
Apr 3, 2020 9:29:04 PM GMT+0530

Etag
a8606a245b50421ad72eb02122c9d995

Storage class
Standard

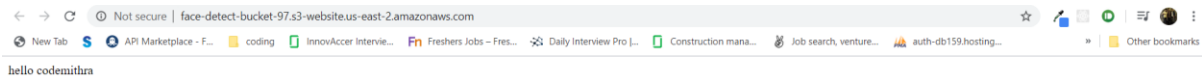
Server-side encryption

Operations 0 In progress 2 Success 0 Error

Feedback English (US)

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5. Checking the S3 link on the browser



Screenshots needed for EC2 & S3

1. Installing aws-sdk

```
ec2-user@ip-172-31-35-197:~  
./composer.json has been updated  
Loading composer repositories with package information  
Updating dependencies (including require-dev)  
Package operations: 7 installs, 1 update, 0 removals  
- Installing symfony/polyfill-mbstring (v1.15.0): Loading from cache  
- Installing mtdowling/jmespath.php (2.5.0): Loading from cache  
- Installing guzzlehttp/promises (v1.3.1): Loading from cache  
- Installing ralouphie/getallheaders (3.0.3): Loading from cache  
- Installing psr/http-message (1.0.1): Loading from cache  
- Installing guzzlehttp/psr7 (1.6.1): Loading from cache  
- Installing guzzlehttp/guzzle (6.5.2): Loading from cache  
- Updating aws/aws-sdk-php (2.8.31 => 3.134.3): Loading from cache  
guzzlehttp/psr7 suggests installing zendframework/zend-httpfunderrunner (Emit P  
SR-7 responses)  
guzzlehttp/guzzle suggests installing psr/log (Required for using the Log middle  
ware)  
guzzlehttp/guzzle suggests installing ext-intl (Required for Internationalized D  
omain Name (IDN) support)  
Package guzzle/guzzle is abandoned, you should avoid using it. Use guzzlehttp/gu  
zzle instead.  
Writing lock file  
Generating autoload files  
1 package you are using is looking for funding.  
Use the `composer fund` command to find out more!
```


2.index.php file code

```
ec2-user@ip-172-31-35-197:/var/www/html/face
require_once(__DIR__ . '/vendor/autoload.php');

use Aws\S3\S3Client;
use Aws\Rekognition\RekognitionClient;
use Aws\Exception\AwsException;

$bucket = 'face-detect-bucket-97';
$keyname = 'sample.jpg';

$s3 = new S3Client([
    'region'      => 'us-east-2',
    'version'     => 'latest',
    'signature'   => 'v4',
    'credentials' => ['key' => 'AKIAIEWIZ7A46BWMKP2Q',
                     'secret' => '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']
]);

try {
    // Upload data.
    $result = $s3->putObject([
        'Bucket'      => $bucket,
        'Key'         => $keyname,
        'SourceFile'  => __DIR__ . "/$keyname",

```

"index.php" 84L, 2032C 44,11-18 52%

3.Upload success screenshot

```
ec2-user@ip-172-31-35-197:/var/www/html/face

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

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-35-197 ~]$ cd /var/www/html
[ec2-user@ip-172-31-35-197 html]$ cd face
[ec2-user@ip-172-31-35-197 face]$ ls
45896021.cms composer.json composer.lock index.php sample.jpg vendor
[ec2-user@ip-172-31-35-197 face]$ sudo php index.php
Cannot read credentials from /root/.aws/credentials
[ec2-user@ip-172-31-35-197 face]$ sudo vim index.php
[ec2-user@ip-172-31-35-197 face]$ sudo php index.php
PHP Parse error:  syntax error, unexpected 'secret' (T_CONSTANT_ENCAPSED_STRING), expecting ']' in /var/www/html/face/index.php on line 48
[ec2-user@ip-172-31-35-197 face]$ sudo vim index.php
[ec2-user@ip-172-31-35-197 face]$ sudo php index.php
Cannot read credentials from /root/.aws/credentials
[ec2-user@ip-172-31-35-197 face]$ ^C
[ec2-user@ip-172-31-35-197 face]$ sudo vim index.php
[ec2-user@ip-172-31-35-197 face]$ sudo php index.php
Image upload done... Here is the URL: https://face-detect-bucket-97.s3.us-east-2.amazonaws.com/sample.jpgTotally there are 9 faces[ec2-user@ip-172-31-35-197 fac
e]$
```

Screenshots needed for Rekognition

1.Face Detect

The screenshot shows the Amazon Rekognition console with the 'Facial analysis' demo selected. The interface includes a sidebar with navigation options like 'Custom Labels', 'Demos', and 'Metrics'. The main content area displays a sample image of a woman in a yellow car with a bounding box around her face. To the right, a 'Results' section lists various attributes and their confidence scores.

Attribute	Confidence Score
looks like a face	99.9 %
appears to be female	99.9 %
age range	17 - 29 years old
smiling	91.7 %
appears to be happy	99.5 %
wearing glasses	99.8 %

2. Celebrity Recognition

The screenshot shows the Amazon Rekognition console with the 'Celebrity recognition' demo selected. The interface displays a sample image of Shah Rukh Khan with a bounding box around his face. To the right, a 'Results' section shows the match confidence and the identified celebrity's name.

Attribute	Confidence Score
Match confidence	100 %

Identified Celebrity: **Shah Rukh Khan**

3. Face Compare

aws

Services

Resource Groups

🔍

Sahil AgarwalOhioSupport

Amazon Rekognition

Custom Labels^{New}

Use Custom Labels

Demos

Object and scene detection

Image moderation

Facial analysis

Celebrity recognition

Face comparison

Text in image

Video Demos

Video analysis

Metrics

Metrics

Additional Resources

Face comparison


Compare faces to see how closely they match based on a similarity percentage.


Reference face


Comparison faces


Done with the demo?
[Learn more](#)


▼ Results




















Choose a sample image

Choose a sample image

Feedback

English (US)

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4. Text in Image

aws

Services

Resource Groups

🔍

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Amazon Rekognition

Custom Labels^{New}

Use Custom Labels

Demos

Object and scene detection

Image moderation

Facial analysis

Celebrity recognition

Face comparison

Text in image

Video Demos

Video analysis


Metrics

Metrics

Additional Resources

Text in image

Rekognition automatically detects and extracts text in your images. [Learn More](#)



Done with the demo?
[Learn more](#)

▼ Results

US English only

| IT'S |

| MONDAY |

| but | keep |

| Smiling |

► Request

► Response

Choose a sample image

Use your own image
Image must be .jpeg or .png format and no
more than 5MB. Your image text should

https://us-east-2.console.aws.amazon.com/console/home?region=us-east-2

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