

CLOUD COMPUTING

7DAY FREE MASTERCLASS

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GITHUB:

Yamini-Venkatesan

GUIDE: ETHNUS

AWS SCREENSHOT

1.AWS LOGIN SCREEN WITH USERNAME:



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

yamuvenkat99@gmail.com

Next

New to AWS?

Create a new AWS account

Aurora PostgreSQL Global Database Now Available

Create a database that spans multiple AWS regions and replicates your data with no impact on performance



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Root user sign in

Email: yamuvarkat99@gmail.com

Password

[Forgot password?](#)

[Sign in](#)

[Sign in to a different account](#)

[Create a new AWS account](#)

Aurora PostgreSQL Global Database Now Available

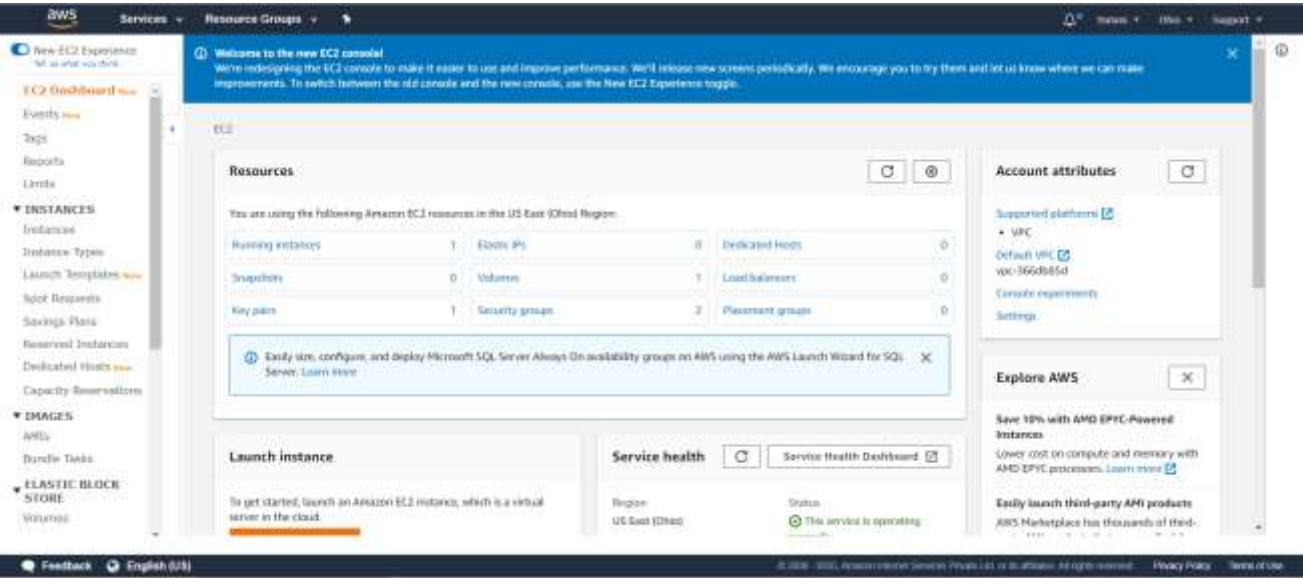
Create a database that spans multiple AWS regions and replicates your data with no impact on performance



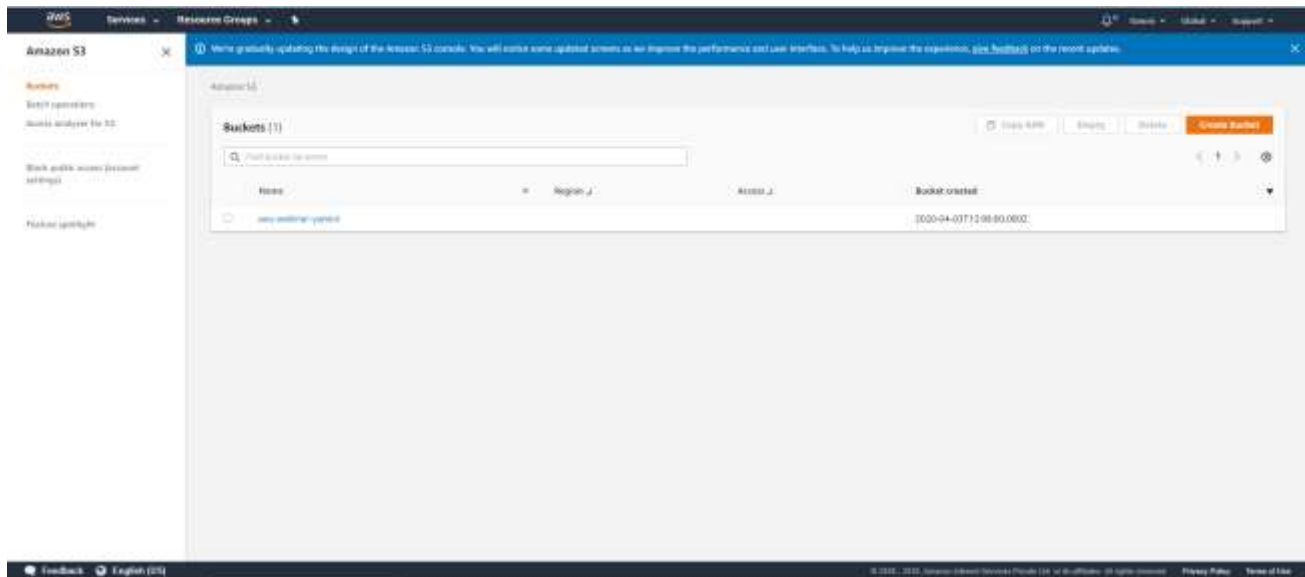
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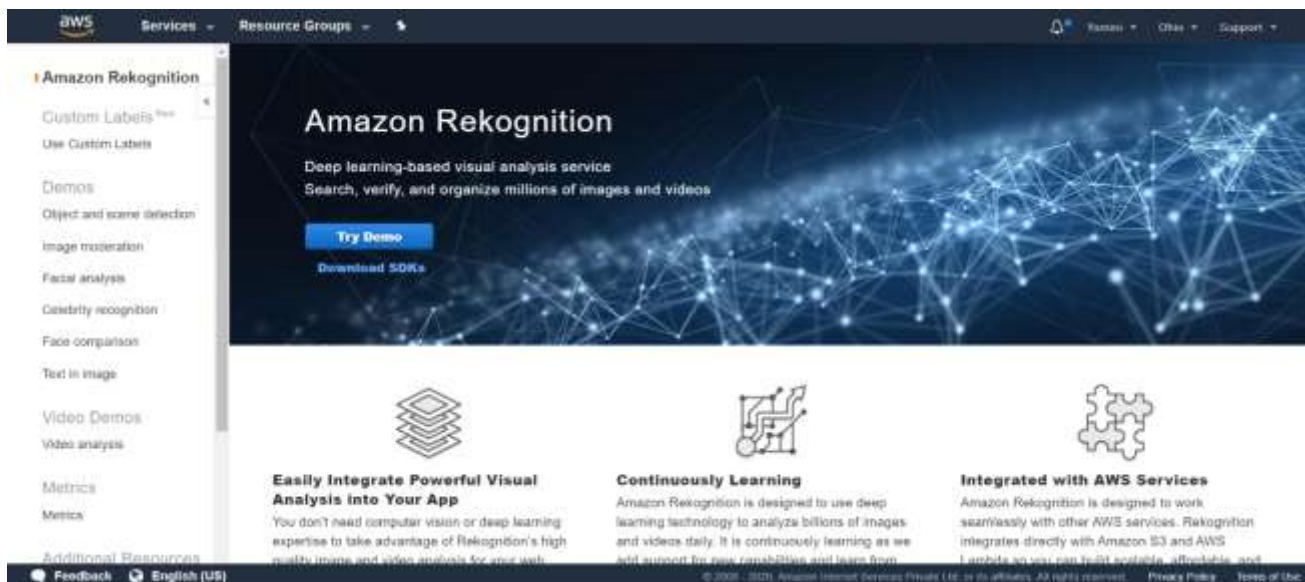
2. EC2 DASHBOARD:



3. S3 DASHBOARD:



4. REKOGNITION DASHBOARD:



EC2 SCREENSHOTS

1. CHOOSING AMI

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

Cancel and Exit

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.

Search for an AMI by entering a search term (e.g. "Windows")

Quick Start

My AMIs

AMI Marketplace

Community AMIs

Free for only

Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-0a01c44ee18447327 (64-bit x86) / ami-03201d374ab68a26e (64-bit ARM)

Amazon Linux 2 comes with five years support. It includes Linux kernel 4.14 tuned for optimal performance on Amazon EC2, isolated 219, GCC 7.3, Clang 3.9, Stratis 2.28.1, and the latest software packages through stratis.

Root device type: x86 / Stratisation type: free / EBS-backed: Yes

Select

64-bit (x86) / 64-bit (ARM)

Amazon Linux 2018.03.0 (HVM), SSD Volume Type - ami-01b01bed030274c7a6

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: x86 / Stratisation type: free / EBS-backed: Yes

Select

64-bit (x86)

Red Hat Enterprise Linux 8 (HVM), SSD Volume Type - ami-03204995a359001d1 (64-bit x86) / ami-0098847860086703f (64-bit ARM)

Red Hat Enterprise Linux Version 8 (HVM), EBS General Purpose (SSD) Volume Type

Root device type: x86 / Stratisation type: free / EBS-backed: Yes

Select

64-bit (x86) / 64-bit (ARM)

Ubuntu Server 18.04 LTS (HVM), SSD Volume Type - ami-0f2f2f2f2f2f2f2f (64-bit x86) / ami-0f2f2f2f2f2f2f2f (64-bit ARM)

Feedback

English (US)

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2. CHOOSING AN INSTANCE TYPE:

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

Cancel and Exit

Step 2: Choose an Instance Type
Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. Learn more about instance types and how they can meet your computing needs.

Filter by: All Instance types / Current generation / Show/Hide Columns

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

Family	Type	vCPUs	Memory (GiB)	Instance Storage (GiB)	EBS-Optimized Available	Network Performance	IPv6 Support
General purpose	t2.nano	1	0.5	EBS only	—	Low to Moderate	Yes
General purpose	t2.micro	1	1	EBS only	—	Low to Moderate	Yes
General purpose	t2.small	1	2	EBS only	—	Low to Moderate	Yes
General purpose	t2.medium	2	4	EBS only	—	Low to Moderate	Yes
General purpose	t2.large	2	8	EBS only	—	Low to Moderate	Yes
General purpose	t2.xlarge	4	16	EBS only	—	Moderate	Yes
General purpose	t2.2xlarge	8	32	EBS only	—	Moderate	Yes
General purpose	t3a.nano	2	0.5	EBS only	Yes	Up to 5 Gbps	Yes

Cancel

Previous

Review and Launch

Next: Configure Instance Details

Feedback

English (US)

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3. ADDING STORAGE:

BWS

Services

Resource Groups

Yours

Other

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 (GB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption
Root	nvme0n1	snap-2f463215faa4120	8	General Purpose SSD (gp3)	100 / 3000	N/A	#	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

Feedback

English (US)

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4. CONFIGURING SECURITY GROUP:

BWS

Services

Resource Groups

Yours

Other

Support

1 Choose AMI

2 Choose instance type

3 Configure instance

4 Add Storage

5 Add Tags

6 Configure Security Group

7 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:

launch-wizard-2

Description:

launch-wizard-2 created 2020-04-01T23:00:50-05:30

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom: 0.0.0.0/0	e.g. SSH for Admin (Default)

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

Cancel

Previous

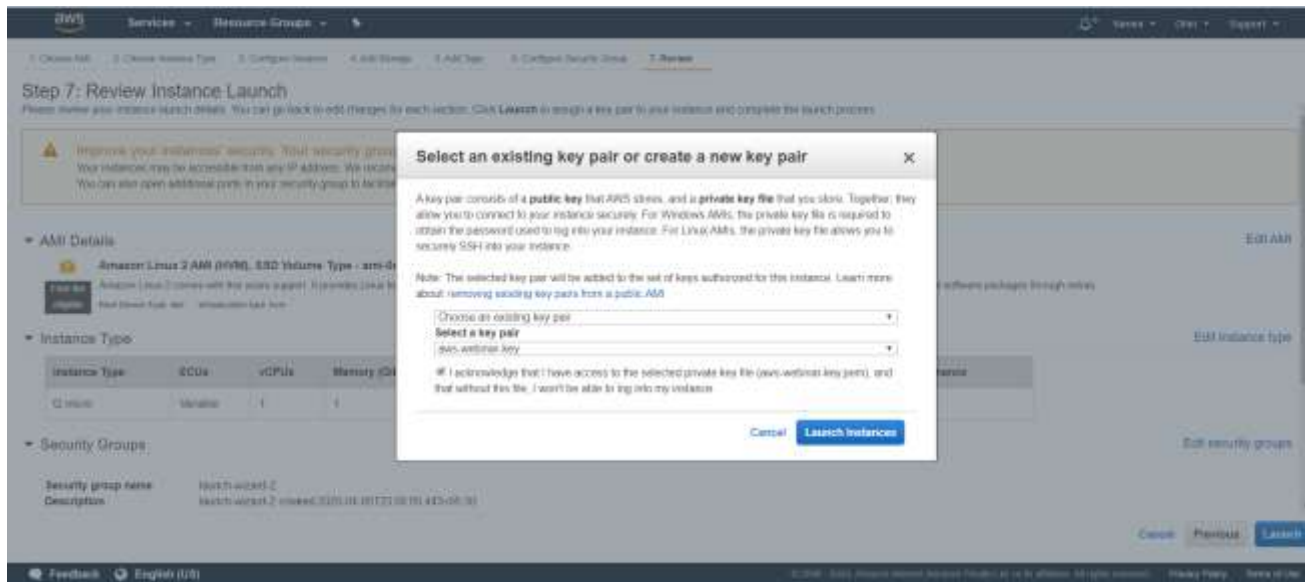
Review and Launch

Feedback

English (US)

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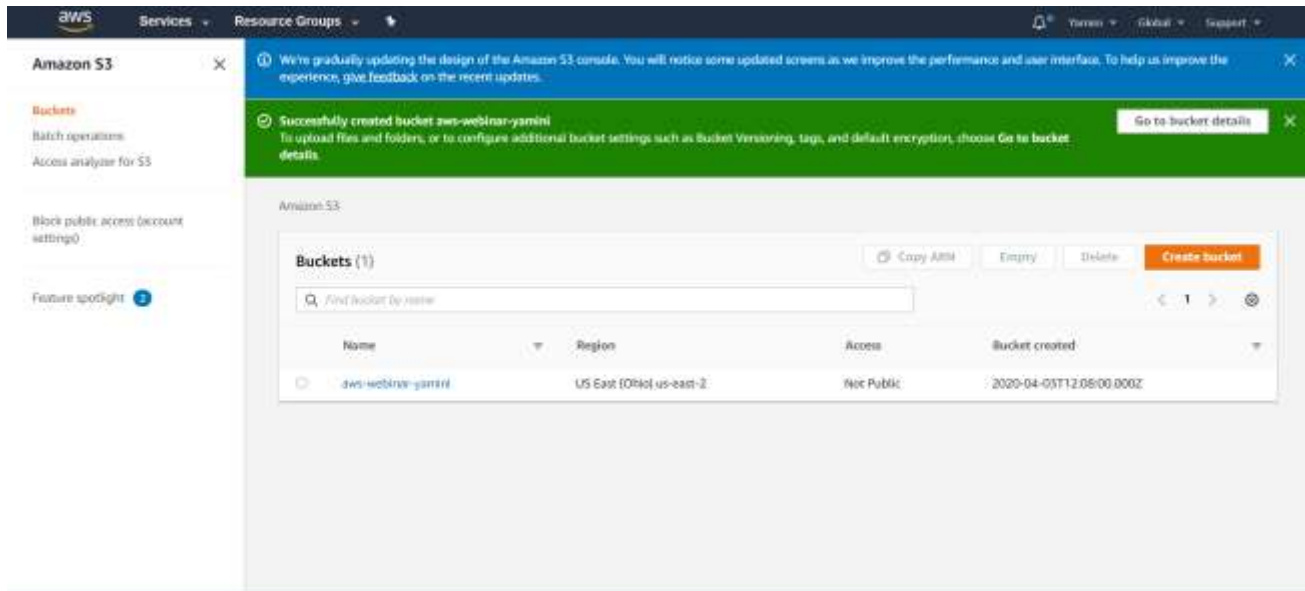
5. KEYPAIR DOWNLOAD:



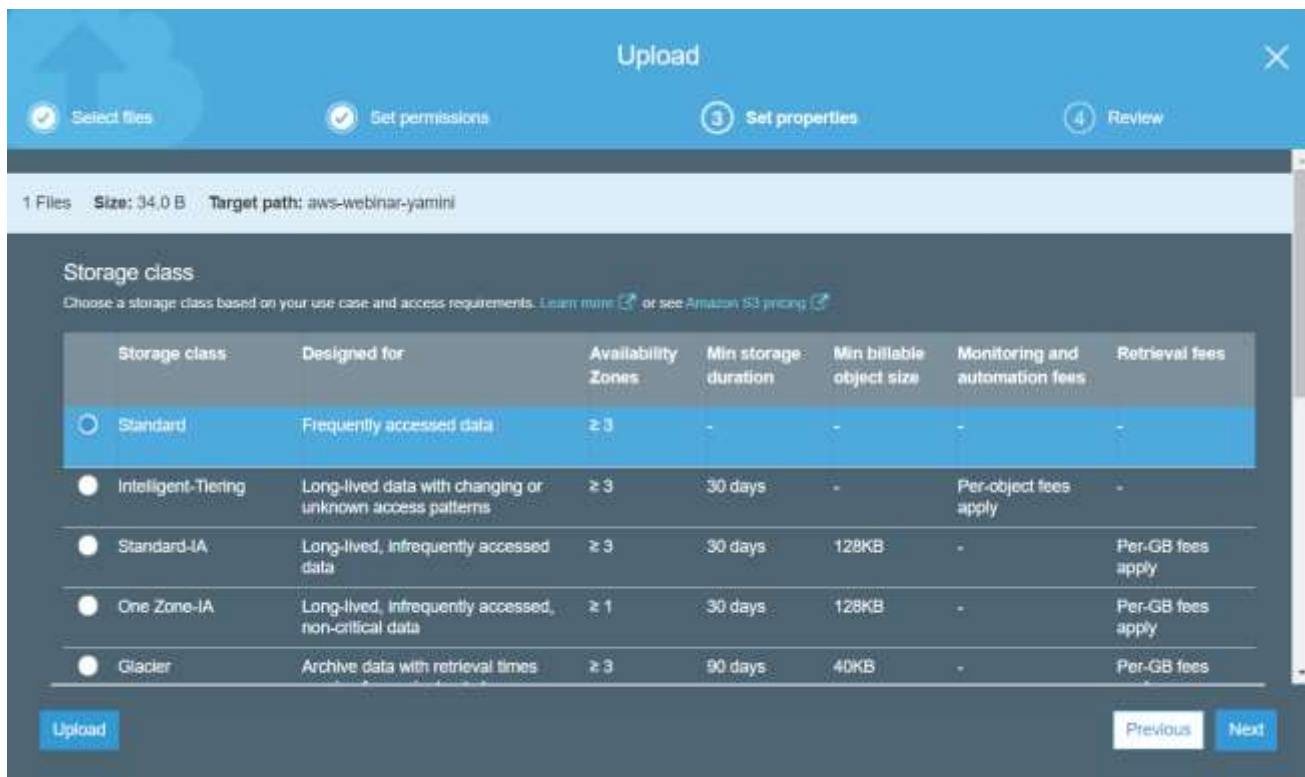
6. PUTTYGEN CONVERSION FROM PEM TO PPK

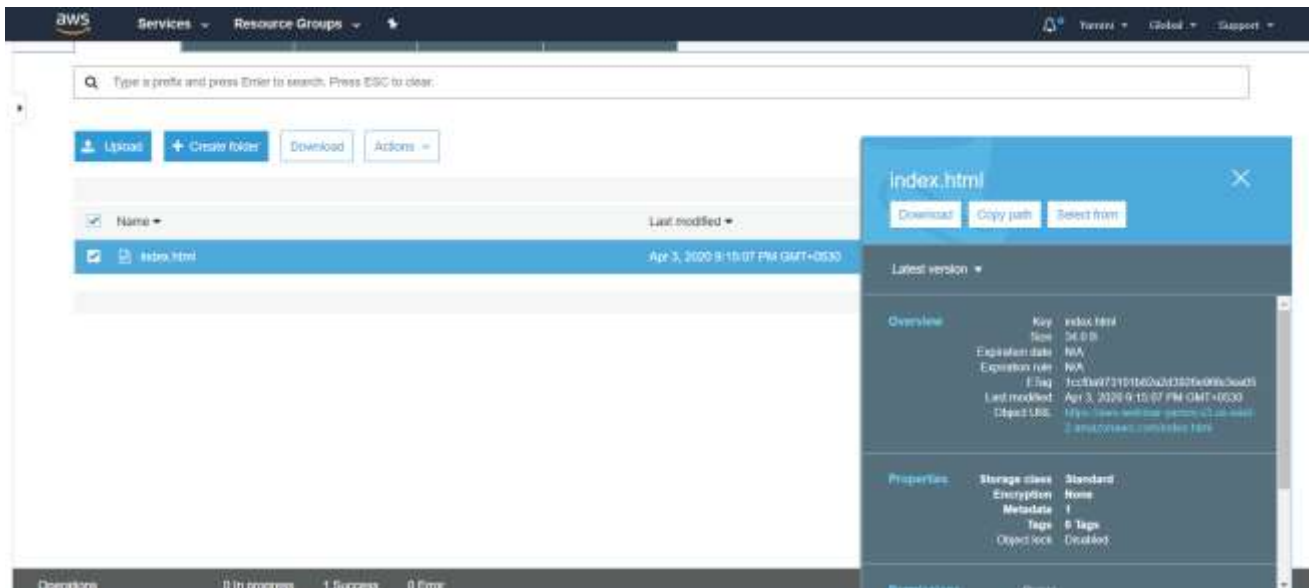
S3 SCREENSHOTS

1. CREATE BUCKET:

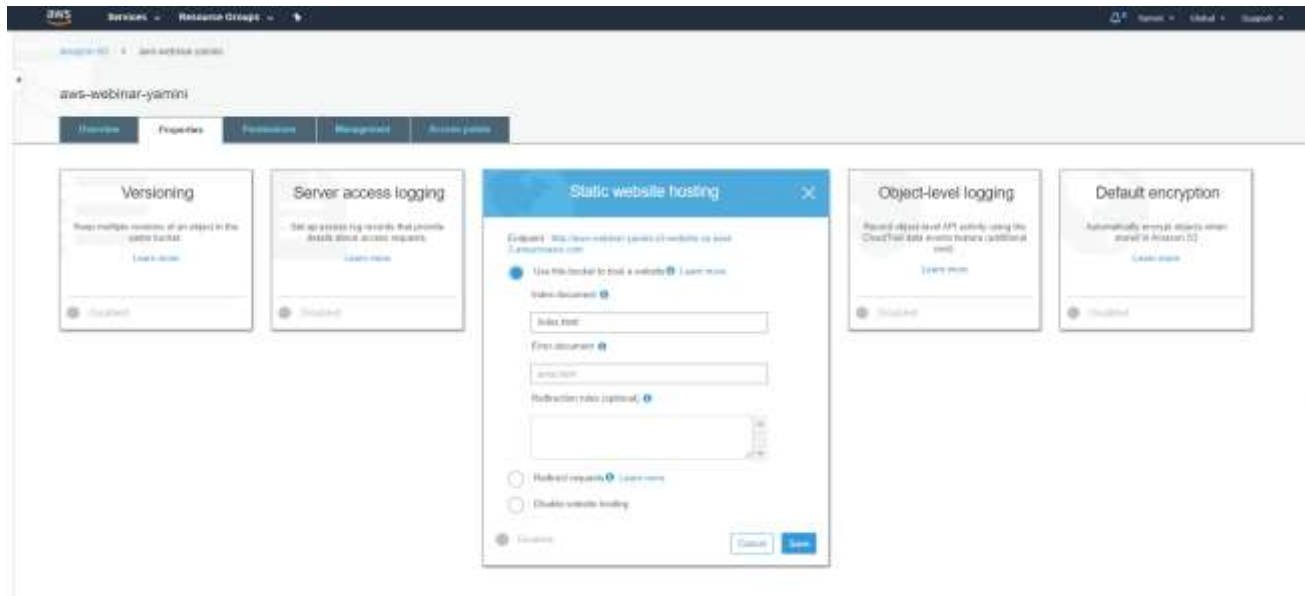


2. UPLOADING AN OBJECT:





3. ENABLING STATIC WEBSITE:



4. MAKING THE OBJECT PUBLIC:

aws-webinar-yamini

Overview Properties Permissions Management Access points

Block public access Access Control List Bucket Policy CORS configuration

Block public access (bucket settings)

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects in specific storage use cases, [learn more](#).

Public access settings updated successfully

Block all public access
Off

- Block public access to buckets and objects granted through new access control lists (ACLs)
Off
- Block public access to buckets and objects granted through any access control lists (ACLs)
Off
- Block public access to buckets and objects granted through new public bucket or access point policies
Off
- Block public and cross-account access to buckets and objects through any public bucket or access point policies
Off

5. CHECKING THE S3 LINK ON THE BROWSER:

← → ↻ ⓘ Not secure | aws-webinar-yamini.s3-website.us-east-2.amazonaws.com

📱 Apps 📧 Gmail 📺 YouTube 🗺 Maps 📰 News 🌐 Translate 🔄 Java String getChar... 🔄 Jav

hi! I am Yamini!!

REKOGNITION SCREENSHOTS

1. FACE DETECT:

The screenshot shows the Amazon Rekognition console with the 'Face Detect' demo selected. The main area displays a photo of two people sitting on a wooden bridge over a river. To the right, the 'Results' section shows a detected face with the following attributes:

Attribute	Confidence
looks like a face	99.9 %
appears to be male	91.7 %
age range	22 - 34 years old
not smiling	84.9 %
appears to be calm	60.9 %
not wearing glasses	99.6 %

Below the results, there is a 'Request' button and a 'Show more' link. The left sidebar contains navigation options like 'Amazon Rekognition', 'Custom Labels', 'Demos', 'Image moderation', 'Facial analysis', 'Celebrity recognition', 'Face comparison', 'Text in image', 'Video Demos', 'Video analysis', 'Metrics', and 'Additional Resources'.

2. FACE COMPARISON:

The screenshot shows the Amazon Rekognition console with the 'Face comparison' demo selected. The main area displays two photos side-by-side for comparison. Below the photos, there are two 'Choose a sample image' buttons with image thumbnails. To the right, the 'Results' section shows a similarity score of 90.8 % between the two faces. The left sidebar contains navigation options like 'Amazon Rekognition', 'Custom Labels', 'Demos', 'Image moderation', 'Facial analysis', 'Celebrity recognition', 'Face comparison', 'Text in image', 'Video Demos', 'Video analysis', 'Metrics', and 'Additional Resources'.

3. CELEBRITY REKOGNITION:

The screenshot displays the Amazon Rekognition console interface. On the left, a navigation sidebar includes links for 'Custom Labels', 'Demos', 'Object and scene detection', 'Image moderation', 'Facial analysis', 'Celebrity recognition' (highlighted), 'Face comparison', 'Text in image', 'Video Demos', 'Video analysis', 'Metrics', and 'Additional Resources'. The main content area features a large image of a man with a white bounding box around his face. Above the image, text states: 'Rekognition automatically recognizes celebrities in images and provides confidence scores.' To the right of the image, a 'Results' section shows a match for 'David Švehlík' with a 'Match confidence' of '55 %'. Below the results, the 'Request' and 'Response' JSON payloads are shown. The 'Request' payload includes 'image' and 'filter' fields. The 'Response' payload includes a 'celebrityFaces' array with details like 'Urls', 'ImageConfidence', and 'Name'.

4. TEXT IN IMAGE:

The screenshot shows the Amazon Rekognition console interface. On the left is a navigation menu with options like 'Amazon Rekognition', 'Custom Labels', 'Use Custom Labels', 'Demos', 'Object and scene detection', 'Image moderation', 'Facial analysis', 'Celebrity recognition', 'Face comparison', 'Text in image' (highlighted), 'Video Demos', 'Video analysis', 'Metrics', 'Additional Resources', 'Getting started guide', and 'Download SDKs'. The main area displays the 'Text in image' demo, featuring a coffee cup with a smiley face drawn on it. Overlaid text reads 'IT'S MONDAY but keep Smiling'. Below the image are two buttons: 'Choose a sample image' and 'Use your own image'. To the right, there's a section titled 'Done with the demo?' with a 'Learn more' link. Below that is a 'Results' section showing a JSON-like output: { "IT'S": 1, "MONDAY": 1, "but": 1, "keep": 1, "Smiling": 1 }. At the bottom, there are links for '+ Request' and '+ Response'.

EC2 & S3 SCREENSHOTS

1. INSTALLING AWS-SDK

```
ec2-user@ip-172-31-38-16:/var/www/html/fac$  
#1 (main)  
throw in /var/www/html/fac/vendor/aws/aws-sdk-php/src/Aws/Common/Client/AbstractClient.php on line 73  
[ec2-user@ip-172-31-38-16 fac]$ sudo yum install awscli  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
awscli-core : 2.4 km 00:00  
Resolving Dependencies  
--> Running transaction check  
--> Package php.x86_64 0:7.2.28-1.amzn2 will be installed  
--> Finished Dependency Resolution  
  
Dependencies Resolved  
  
Package Arch Version Repository Size  
Installing:  
php x86_64 7.2.28-1.amzn2 amzn2extra-php7.2 2.9 M  
  
Transaction Summary  
Install 1 Package  
  
Total download size: 2.9 M  
Installed size: 8.1 M  
Is this ok [y/d/N]: y  
Downloading packages:  
php-7.2.28-1.amzn2.x86_64.rpm | 2.9 MB 00:00  
Running transaction check  
Running transaction test  
Transaction test succeeded  
Running transaction  
Installing : php-7.2.28-1.amzn2.x86_64 1/1  
Verifying : php-7.2.28-1.amzn2.x86_64 1/1  
  
Installed:  
php.x86_64 0:7.2.28-1.amzn2  
  
Complete!  
[ec2-user@ip-172-31-38-16 fac]$
```

2. INSTALLING PHP

```
ec2-user@ip-172-31-38-16:/var/www/html/fac$  
#1 (main)  
throw in /var/www/html/fac/vendor/aws/aws-sdk-php/src/Aws/Common/Client/AbstractClient.php on line 73  
[ec2-user@ip-172-31-38-16 fac]$ sudo yum install php  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
awscli-core : 2.4 km 00:00  
Resolving Dependencies  
--> Running transaction check  
--> Package php.x86_64 0:7.2.28-1.amzn2 will be installed  
--> Finished Dependency Resolution  
  
Dependencies Resolved  
  
Package Arch Version Repository Size  
Installing:  
php x86_64 7.2.28-1.amzn2 amzn2extra-php7.2 2.9 M  
  
Transaction Summary  
Install 1 Package  
  
Total download size: 2.9 M  
Installed size: 8.1 M  
Is this ok [y/d/N]: y  
Downloading packages:  
php-7.2.28-1.amzn2.x86_64.rpm | 2.9 MB 00:00  
Running transaction check  
Running transaction test  
Transaction test succeeded  
Running transaction  
Installing : php-7.2.28-1.amzn2.x86_64 1/1  
Verifying : php-7.2.28-1.amzn2.x86_64 1/1  
  
Installed:  
php.x86_64 0:7.2.28-1.amzn2  
  
Complete!  
[ec2-user@ip-172-31-38-16 fac]$
```


3. INDEX.PHP FILE CODE

```
5_6338941033870524687 - Notepad
File Edit Format View Help
<?php

/*
Install php - sudo yum install php
curl -sS https://getcomposer.org/installer | php
cd /var/www/html
sudo mkdir face
cd face
sudo php -d memory_limit=-1 ~/composer.phar require aws/aws-sdk-php

In case if you get memory error -
sudo /bin/dd if=/dev/zero of=/var/swap.1 bs=1M count=1024
sudo /sbin/mkswap /var/swap.1
sudo /sbin/swapon /var/swap.1

sudo wget https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg
sudo mv b97ea33b5842c7894b804923c6c05580.jpg sample.jpg

*/
error_reporting(0);
require_once( __DIR__ . '/vendor/autoload.php' );

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

# ...
```

4. UPLOAD SUCCESS SCREENSHOT

```
Putty (inactive)
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Mon Apr  5 13:53:14 2020 from 117.204.26.125

_ _ _ _ _
| | | | |
_ _ _ _ _ Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-36-16 ~]$ sudo mv b97ea33b5842c7894b804923c6c05580.jpg sw.jpg
mv: cannot stat 'b97ea33b5842c7894b804923c6c05580.jpg': No such file or directory
[ec2-user@ip-172-31-36-16 ~]$ cd /var/www/html
[ec2-user@ip-172-31-36-16 html]$ cd face
[ec2-user@ip-172-31-36-16 face]$ sudo mv b97ea33b5842c7894b804923c6c05580.jpg sw.jpg
mv: cannot stat 'b97ea33b5842c7894b804923c6c05580.jpg': No such file or directory
[ec2-user@ip-172-31-36-16 face]$ sudo wget https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg
--2020-04-05 13:20:03-- https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg
Resolving i.pinimg.com (i.pinimg.com)... 191.151.248.34, 206.64.7700:4812:rho, 26
m4:4700:c612:m80
Connecting to i.pinimg.com (i.pinimg.com)[191.151.248.34]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 215511 (210K) [image/jpeg]
Saving to: 'b97ea33b5842c7894b804923c6c05580.jpg'

[094]-----> 215,511 --K/s 18.4.04s

2020-04-05 13:20:04 (5.45 MB/s) = 'b97ea33b5842c7894b804923c6c05580.jpg' saved [
215511/215511]

[ec2-user@ip-172-31-36-16 face]$ sudo mv b97ea33b5842c7894b804923c6c05580.jpg sw.jpg
mv: cannot stat 'b97ea33b5842c7894b804923c6c05580.jpg': No such file or directory
[ec2-user@ip-172-31-36-16 face]$ ls
composer.json  composer.lock  index.php  s3.jpg  sw.jpg  vendor
[ec2-user@ip-172-31-36-16 face]$ sudo mv s3.jpg index.php
[ec2-user@ip-172-31-36-16 face]$ sudo mv index.php
image upload done... Here is the URL: https://aws-estimator-yamini.s3.us-east-2.am
azonaws.com/sw.jpg[ec2-user@ip-172-31-36-16 face]$
```

EC2 & RECOGNITION SCREENSHOTS

1. FACE DETECT SUCCESS SCREENSHOT

```
root@kali:~# ssh user@ec2-user
Authenticating with public key "improved-openssh-key"
Last login: Sun Apr 8 13:53:14 2020 from 197.104.126.123

    ____      _
   / ___ |_____| |__|_||_|
  /___ \|_____||_|_|_|_|

Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-38-26 ~]$ sudo mv b07ea13b5642c7894bf04823cc0c05588.jpg mv wp
mv: cannot stat 'b07ea13b5642c7894bf04823cc0c05588.jpg': no such file or directory
[ec2-user@ip-172-31-38-26 ~]$ cd /var/www/html
[ec2-user@ip-172-31-38-26 html]$ cd face
[ec2-user@ip-172-31-38-26 face]$ sudo mv b07ea13b5642c7894bf04823cc0c05588.jpg mv
.jpg
mv: cannot stat 'b07ea13b5642c7894bf04823cc0c05588.jpg': no such file or directory
[ec2-user@ip-172-31-38-26 face]$ sudo wget https://l.pining.com/originals/X9/Y9/W9/Z9/b07ea13b5642c7894bf04823cc0c05588.jpg
--2020-04-08 13:20:03-- https://l.pining.com/originals/X9/Y9/W9/Z9/b07ea13b5642c7894bf04823cc0c05588.jpg
Resolving l.pining.com (l.pining.com)... 131.131.248.34, 2080:4790::812:f80, 26
6:4790::812:f80
Connecting to l.pining.com (l.pining.com)|131.131.248.34|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 215551 (215K) [image/jpeg]
Saving to: 'b07ea13b5642c7894bf04823cc0c05588.jpg'

b07e[...]<>[215,551] --E/s 18.8.04s

2020-04-08 13:20:04 (5.63 MB/s) = 'b07ea13b5642c7894bf04823cc0c05588.jpg' saved [
215551/215551]

[ec2-user@ip-172-31-38-26 face]$ sudo mv b07ea13b5642c7894bf04823cc0c05588.jpg mv
.jpg
[ec2-user@ip-172-31-38-26 face]$ ls
composer.json composer.lock index.php s.jpg sv.jpg vendor
[ec2-user@ip-172-31-38-26 face]$ ls -la
total 16
drwxr-xr-x 2 root root 4096 Apr 8 13:56 .
drwxr-xr-x 3 root root 4096 Apr 8 13:56 ..
-rw-r--r-- 1 root root 1048 Apr 8 13:56 index.php
-rw-r--r-- 1 root root 1048 Apr 8 13:56 index.php
-rw-r--r-- 1 root root 1048 Apr 8 13:56 index.php
Image upload done... Here is the URL: Http://www.wetinger-yamini.s3.us-east-2.am
azonwebs.com/sv.jpg[ec2-user@ip-172-31-38-26 face]$
```