

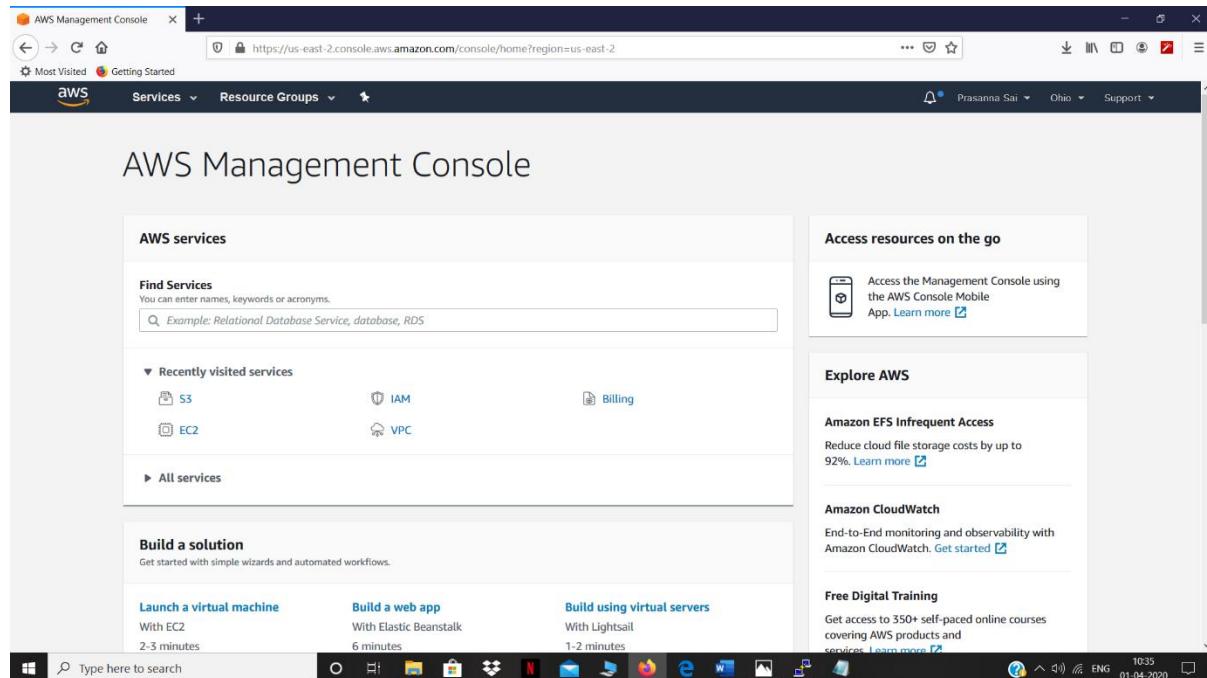
AWS Project Submission

Ethnus Webinar

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1. Screenshots for Dashboard



EC2 Management Console

Most Visited Getting Started

New EC2 Experience Tell us what you think

EC2 Dashboard

Events New Tags Reports Limits

INSTANCES

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

IMAGES

- AMIs
- Bundle Tasks

ELASTIC BLOCK STORE

Welcome to the new EC2 console!

We're redesigning the EC2 console to make it easier to use and improve performance. We'll release new screens periodically. We encourage you to try them and let us know where we can make improvements. To switch between the old console and the new console, use the New EC2 Experience toggle.

EC2

Resources

You are using the following Amazon EC2 resources in the US East (Ohio) Region:

Running instances	1	Elastic IPs	0
Dedicated Hosts	0	Snapshots	0
Volumes	1	Load balancers	0
Key pairs	1	Security groups	3
Placement groups	0		

Easily size, configure, and deploy Microsoft SQL Server Always On availability groups on AWS using the AWS Launch Wizard for SQL Server. [Learn more](#)

Account attributes

- Supported platforms
- VPC
- Default VPC vpc-ee885d85
- Console experiments
- Settings

Additional information

- Getting started guide
- Documentation
- All EC2 resources
- Forums
- Pricing

Feedback English (US)

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S3 Management Console

Most Visited Getting Started

New S3 Experience Tell us what you think

Amazon S3

Buckets

Batch operations

Access analyzer for S3

Block public access (account settings)

Feature spotlight

We're gradually updating the design of the Amazon S3 console. You will notice some updated screens as we improve the performance and user interface. To help us improve the experience, give feedback on the recent updates.

Amazon S3

Buckets (1)

Name	Region	Access	Bucket created
first-stthree	US East (Ohio) us-east-2	Objects can be public	2020-03-29T06:50:11.000Z

Copy ARN Empty Delete Create bucket

Feedback English (US)

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The screenshot shows the AWS IAM Management Console with the URL <https://console.aws.amazon.com/iam/home?region=us-east-2#/policies/arm:awsiam:aws:policy/AmazonRekognitionFullAccess>. The left sidebar is titled "Identity and Access Management (IAM)" and includes sections for Dashboard, Access management, Groups, Users, Roles, Policies (selected), Identity providers, Account settings, Access reports, Access analyzer, Archive rules, Analyzers, Settings, Credential report, Organization activity, and Service control policies (SCPs). The main content area is titled "Summary" for the "AmazonRekognitionFullAccess" policy. It displays the Policy ARN as "arn:aws:iam::aws:policy/AmazonRekognitionFullAccess" and a Description stating "Access to all Amazon Rekognition APIs". Below this are tabs for Permissions, Policy usage, Policy versions, and Access Advisor. Under the Permissions tab, there is a "Policy summary" section with a JSON button and a "Filter" input field. A table below shows access levels for various services. The table has columns for Service, Access level, Resource, and Request condition. One entry shows "Rekognition" with "Full access" and "All resources" under "Resource". The bottom of the screen shows the Windows taskbar with icons for File Explorer, Task View, Start, Taskbar settings, and several pinned applications.

2. Screenshots for EC2

The screenshot shows the AWS Launch Instance Wizard at Step 1: Choose an Amazon Machine Image (AMI). The URL is <https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:step1>. The wizard has seven steps: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Add Tags, 6. Configure Security Group, and 7. Review. The "Choose AMI" step is selected. The main content area shows a list of available Amazon Machine Images (AMIs) for Microsoft Windows Server 2019. Each item includes a "Select" button and a "64-bit (x86)" link. The items listed are:

- Microsoft Windows Server 2019 Base - ami-07f3715a1f6dbb6d9
- Microsoft Windows Server 2019 Base with Containers - ami-0e3db894a1965a7b2
- Microsoft Windows Server 2019 with SQL Server 2017 Standard - ami-0fc9756f32bec541
- Microsoft Windows Server 2019 with SQL Server 2019 Standard - ami-00c40e328de312185
- Microsoft Windows Server 2016 with SQL Server 2017 Standard - ami-0018bf403cd4001b

The bottom of the screen shows the Windows taskbar with icons for File Explorer, Task View, Start, Taskbar settings, and several pinned applications.

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 vCPUs, 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

Cancel Previous Review and Launch Next: Configure Instance Details

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-ee885d85 (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

Domain join directory: No directory Create new directory

IAM role: None Create new IAM role

Shutdown behavior: Stop

Stop - Hibernate behavior: Enable hibernation as an additional stop behavior

Cancel Previous Review and Launch Next: Add Storage

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/sda1	snap-0bcfa7a1d0ee4116b	30	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](#)

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	(128 characters maximum)	Value	(256 characters maximum)	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](#)

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
RDP	TCP	3389	Custom <input type="text" value="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.

[Cancel](#) [Previous](#) [Review and Launch](#)

Feedback English (US)

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Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

AMI Details

Microsoft Windows Server 2019 Base - ami-07f3715a1f6dbb6d9

Free tier eligible Microsoft Windows 2019 Datacenter edition. [English]

Root Device Type: ebs Virtualization type: hvm

If you plan to use this AMI for an application that benefits from Microsoft License Mobility, fill out the License Mobility Form. Don't show me this again

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

Security Groups

[Edit security groups](#)

[Cancel](#) [Previous](#) [Launch](#)

Feedback English (US)

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Screenshot of the AWS Launch Instance Wizard Step 7: Review Instance Launch.

The page shows the configuration details for launching an instance:

- Instance Type:** t2.micro (1 ECUs, 1 vCPU, 1 GiB Memory, EBS only storage, EBS-Optimized Available, Network Performance: Low to Moderate).
- Security Groups:** launch-wizard-1 (SSH port 22, TCP).
- Tags:** None.

Buttons at the bottom include **Cancel**, **Previous**, and **Launch**.

Screenshot of the AWS Launch Instance Wizard Step 7: Review Instance Launch.

A modal dialog box is displayed: **Select an existing key pair or create a new key pair**. It contains the following information:

- 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.
- Note: The selected key pair will be added to the set of keys authorized for this instance.
- Options:
 - Create a new key pair:** Key pair name: EC2.
 - Download Key Pair** button.

At the bottom of the modal are **Cancel** and **Launch Instances** buttons.

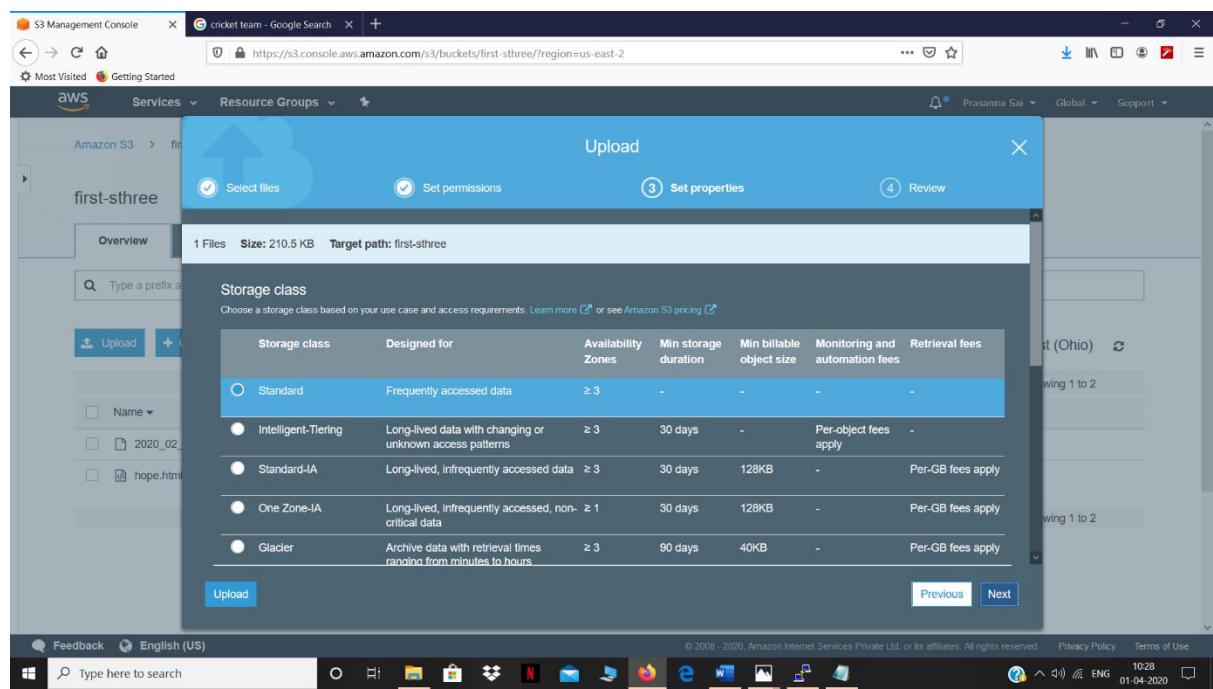
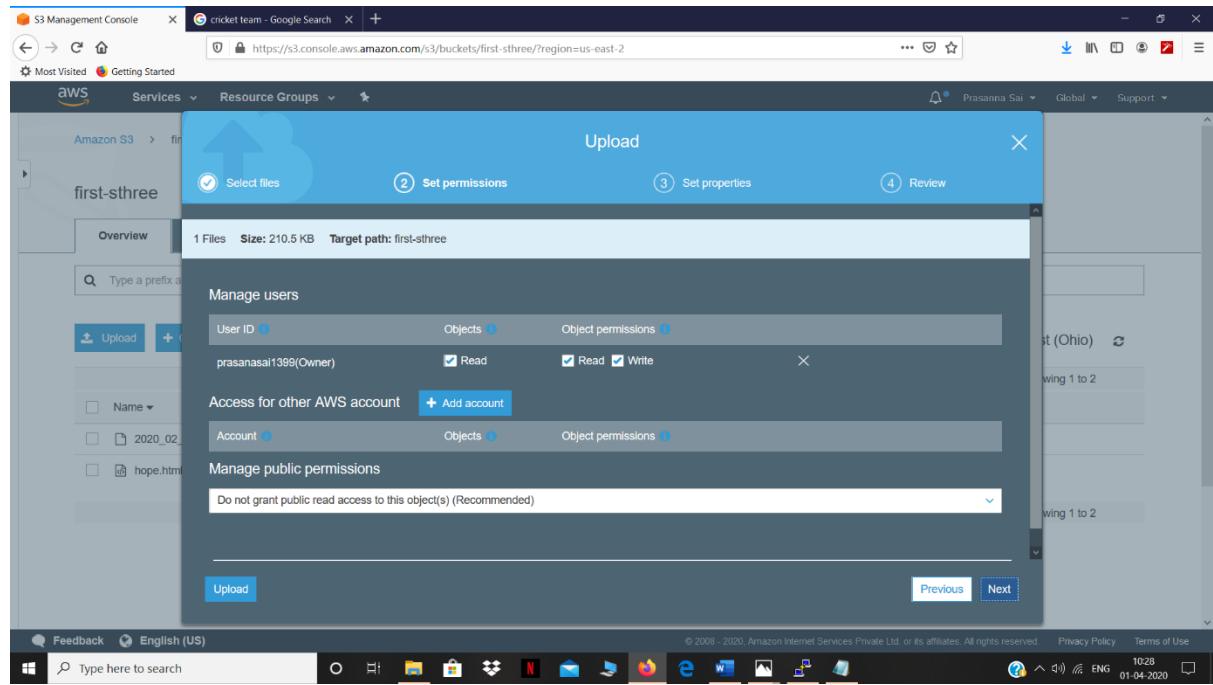
The screenshot shows the AWS EC2 Management console. On the left, there's a sidebar with navigation links like 'New EC2 Experience', 'Launch Instance', 'Connect', and 'Actions'. The main area displays a table of instances. One instance is selected, showing its details: Name (i-0b608475efdb27d4b), Instance ID (i-0b608475efdb27d4b), Instance Type (t2.micro), Availability Zone (us-east-2a), Instance State (running), Status Checks (Initializing), Alarm Status (None), Public DNS (IPv4) (ec2-18-188-221-170.us-east-2.compute.amazonaws.com), and IPv4 Public IP (18.188.221.170). Below the table, a modal window provides more detailed information about the selected instance.

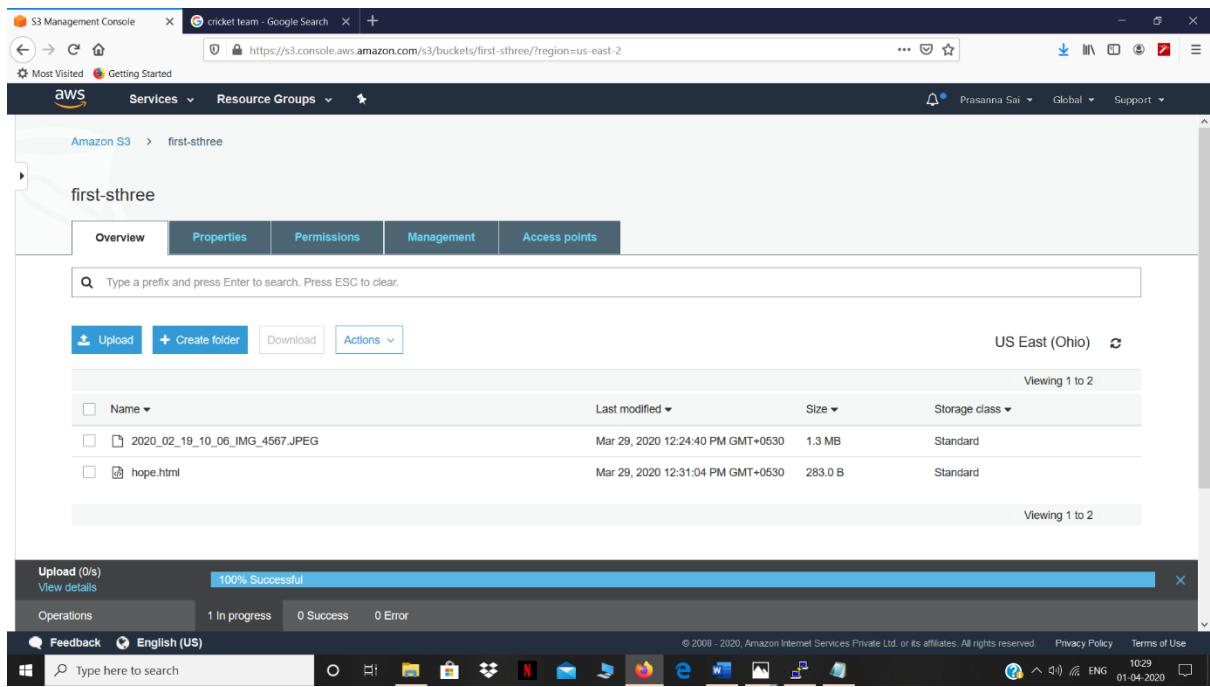
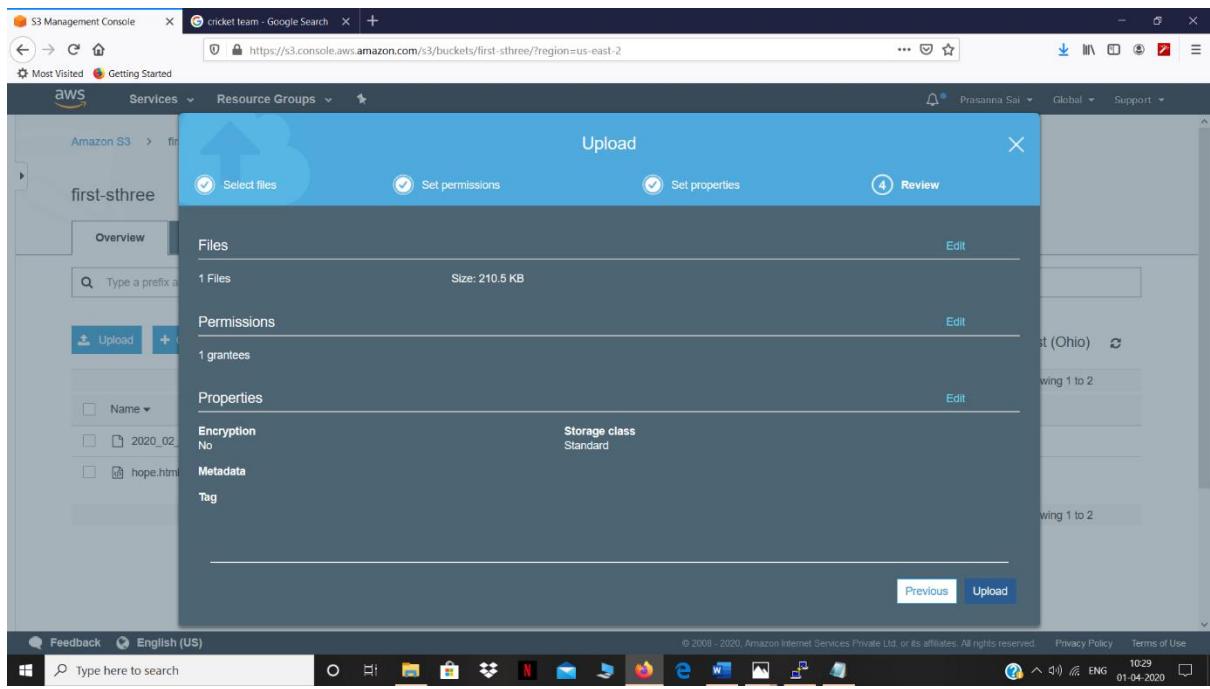
The screenshot shows a Windows file explorer window. A ZIP file named 'putty' is being extracted. The extraction path is set to 'Extract To' the current folder. Inside the ZIP file, there are several files and folders related to Putty, including PAGEANT, PLINK, PSCP, PSFTP, PUTTY, and PUTTYGEN. The extracted files are visible in the background, including 'putty.exe', 'putty.png', and 'putty.ico'. The taskbar at the bottom shows various pinned icons and the date/time (27-03-2020 19:49).

The screenshot shows the AWS EC2 Management console. On the left, the navigation pane includes 'New EC2 Experience', 'EC2 Dashboard', 'Events', 'Tags', 'Reports', 'Limits', 'INSTANCES' (selected), 'Instances Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Capacity Reservations', 'IMAGES', 'AMIs', 'Bundle Tasks', 'ELASTIC BLOCK STORE', and 'Volumes'. The main area displays an instance named 'i-0b608475efdb27d4b'. A 'Putty Configuration' dialog is open over the instance details page, showing various SSH connection options like 'Attempt authentication using Pageant' and 'Attempt 'keyboard-interactive' auth (SSH-2)'. Below the dialog, the instance details are listed: Instance ID (i-0b608475efdb27d4b), Instance state (running), Instance type (t2.micro), and Public DNS (ec2-18-188-221-170.us-east-2.compute.amazonaws.com). The status bar at the bottom indicates the browser version (2006) and date (27-03-2020).

The screenshot shows a browser window with two tabs: 'STS_Online_Mock_Test - praveen' and 'Instances | EC2 Management'. The main content area contains a terminal session window titled 'ec2-user@ip-172-31-30-131: ~ \$'. The session shows commands being run to start the Apache HTTP server (httpd) and check its status. The output of the 'systemctl status httpd.service' command is displayed, showing it is active and running. To the right of the terminal, a YouTube video player is visible, showing a video titled 'Windows Server Administration for Beginners' by 'CySec Cloud Consulting LLC'. The video has 7.2K views and was uploaded 1 year ago. The status bar at the bottom indicates the browser version (2006) and date (29-03-2020).

3. Screenshots For S3





The screenshot shows the AWS S3 Management Console with the URL <https://s3.console.aws.amazon.com/s3/object/first-sthree/hope.html?region=us-east-2&tab=overview>. The object details are as follows:

- Owner:** 22ec234bae6fa68bfc141d5dbe4f51dde6c20a83054196d41962cd23fb77ab1
- Last modified:** Mar 29, 2020 12:31:04 PM GMT+0530
- Etag:** ffbbe85dc2b868d16d18ca20e72964f0
- Storage class:** Standard
- Server-side encryption:** None
- Size:** 283.0 B
- Key:** hope.html
- Object URL:** <https://first-sthree.s3.us-east-2.amazonaws.com/hope.html>



The screenshot shows the AWS S3 Management Console with the URL <https://s3.console.aws.amazon.com/s3/buckets/first-sthree?region=us-east-2&tab=properties>. The bucket properties are:

- Versioning:** Keep multiple versions of an object in the same bucket. Status: Disabled.
- Server access logging:** Set up access log records that provide details about access requests. Status: Disabled.
- Static website hosting:** Host a static website, which does not require server-side technologies. Status: Bucket hosting.
- Object-level logging:** Record object-level API activity using the CloudTrail data events feature (additional cost). Status: Disabled.
- Default encryption:** Automatically encrypt objects when stored in Amazon S3. Status: Enabled.



S3 Management Console

https://s3.console.aws.amazon.com/s3/buckets/first-sthree/?region=us-east-2&tab=permissions

Services Resource Groups

Overview Properties Access points

Bucket policy use JSON-based access policy language to manage advanced permission to your Amazon S3 resources.

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. These settings apply only to this bucket and its access points. 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 within, you can customize the individual settings below to suit your specific storage use cases. Learn more ↗

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

Edit

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first-sthree.s3.us-east-2.amazonaws.com

https://first-sthree.s3.us-east-2.amazonaws.com/hope.html

Most Visited Getting Started

Hi Hope I love you are bangaru thalli please maa stay with me ra kanna mama ni vadalu maa manam happy ga undam thalli nv korunna life neeku istha maa inko week lo MS gurinchi kuda confirm chesestha maa please baby stay with me maa I love you lots raa chitti thalli

Type here to search

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4. Screenshots for EC2&S3

```
ec2-user@ip-172-31-13-104:~
```

```
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-172-31-13-104 ~]$ sudo yum install httpd
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
--> Package php.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
--> Processing Dependency: libphp5-embed-cli(x86-64) = 5.4.16-46.amzn2.0.2 for package: php
php.x86_64 0:5.4.16-46.amzn2.0.2.x86_64
--> Processing Dependency: php-common(x86-64) = 5.4.16-46.amzn2.0.2 for package: php
php.x86_64 0:5.4.16-46.amzn2.0.2.x86_64
--> Running transaction check
-->> Package php-cli.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
-->> Package php-common.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
-->> Processing Dependency: libbz2.so.1.0 (64bit) for package: php-common-5.4.16-4
6.amzn2.0.2.x86_64
-->> Running transaction check
-->>> Package libzip010-compat.x86_64 0:0.10.1-9.amzn2.0.5 will be installed
-->>> Finished Dependency Resolution
```

```
Dependencies Resolved
```

```
=====
| Package           | Arch | Version      | Repository | Size |
| ======           |      | ======       |           |      |
| Installing:      |       |              |            |      |
|   php             | x86_64 | 5.4.16-46.amzn2.0.2 | amzn2-core | 1.4 M |
| Installing for dependencies: |       |              |            |      |
|   libzip010-compat | x86_64 | 0.10.1-9.amzn2.0.5 | amzn2-core | 30 k  |
|   php-cli          | x86_64 | 5.4.16-46.amzn2.0.2 | amzn2-core | 2.8 M |
|   php-common       | x86_64 | 5.4.16-46.amzn2.0.2 | amzn2-core | 563 k
```

```
Transaction Summary
=====
| Install 1 Package (+3 Dependent packages)
```

```
Total download size: 4.7 M
Installed size: 17 M
Is this ok (y/d/N):
```

```
ec2-user@ip-172-31-13-104:~$ dependencies Resolved
=====
Package          Arch    Version     Repository   Size
=====
Installing:
php              x86_64  5.4.16-46.amzn2.0.2  amzn2-core  1.4 M
Installing for dependencies:
libzip010-compat x86_64  0.10.1-9.amzn2.0.5  amzn2-core  30 k
php-cli          x86_64  5.4.16-46.amzn2.0.2  amzn2-core  2.8 M
php-common       x86_64  5.4.16-46.amzn2.0.2  amzn2-core  563 k

Transaction Summary
=====
Install 1 Package (+3 Dependent packages)

total download size: 4.7 M
installed size 1.4 M
Is this ok [y/N]: y
Is this ok [y/N]: y
Downloading packages:
(1/4): libzip010-compat-0.10.1-9.amzn2.0.5.x86_64.rpm | 30 KB 00:00
(2/4): php-5.4.16-46.amzn2.0.2.x86_64.rpm           | 1.4 MB 00:00
(3/4): php-common-5.4.16-46.amzn2.0.2.x86_64.rpm      | 563 KB 00:00
(4/4): php-cli-5.4.16-46.amzn2.0.2.x86_64.rpm        | 2.8 MB 00:00

Total                                         23 MB/s | 4.7 MB 00:00

Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : libzip010-compat-0.10.1-9.amzn2.0.5.x86_64 1/4
  Installing : php-common-5.4.16-46.amzn2.0.2.x86_64        2/4
  Installing : php-cli-5.4.16-46.amzn2.0.2.x86_64         3/4
  Preparing  : php-5.4.16-46.amzn2.0.2.x86_64           4/4
  Verifying  : libzip010-compat-0.10.1-9.amzn2.0.5.x86_64 1/4
  Verifying  : php-5.4.16-46.amzn2.0.2.x86_64           2/4
  Verifying  : php-common-5.4.16-46.amzn2.0.2.x86_64      3/4
  Verifying  : php-cli-5.4.16-46.amzn2.0.2.x86_64        4/4

Installed:
  php.x86_64 0:5.4.16-46.amzn2.0.2

Dependency Installed:
  libzip010-compat.x86_64 0:0.10.1-9.amzn2.0.5
  php-cli.x86_64 0:5.4.16-46.amzn2.0.2
  php-common.x86_64 0:5.4.16-46.amzn2.0.2

Complete!
[ec2-user@ip-172-31-13-104 ~]$
```

```
ec2-user@ip-172-31-13-104:~/www/html/face
Warning: proc_open(): fork failed - Cannot allocate memory in phar:///home/ec2-user/composer/phar/vendor/symfony/console/Application.php on line 952
[ErrorException]
proc_open(): fork failed - Cannot allocate memory

require [--dev] [--prefer-source] [--prefer-dist] [-f|--fixed] [--no-progress] [--n-o-suggest] [--no-update] [--no-scripts] [--update-no-dev] [--update-with-dependencies] [--update-with-all-dependencies] [--ignore-platform-reqs] [--prefer-stable] [-s|--prefer-lowest] [-s|--sort-packages] [-o|--optimize-autoloader] [-a|--classmap-authoritative] [-a|--apcu-autoloader] ... [-c|--packages] ...

[ec2-user@ip-172-31-13-104 face]$ [ec2-user@ip-172-31-13-104 face]$ sudo /bin/dd if=/dev/zero of=/var/swap.1 bs=1M
count=1024
1024+0 records in
1024+0 records out
1024M 0:00.00 (1024MB/s) copied, 13.43 s, 80.0 MB/s
[ec2-user@ip-172-31-13-104 face]$ sudo /sbin/mkswap /var/swap.1
mkswap: /var/swap.1: insecure permissions 0644, 0600 suggested.
Setting up swap space version 1, size = 1024 MB (1073737728 bytes)
no label, UUID=06d955f7-7322-49af-bd50-47dd7c3dd20
[ec2-user@ip-172-31-13-104 face]$ sudo /sbin/swapon /var/swap.1
swapon: /var/swap.1: insecure permissions 0644, 0600 suggested.
[ec2-user@ip-172-31-13-104 face]$ sudo /sbin/swapon /var/swap.1
swapon: /var/swap.1: insecure permissions 0644, 0600 suggested.
swapon: /var/swap.1: swap space already active on /dev/loop0
[ec2-user@ip-172-31-13-104 face]$ sudo /sbin/swapon /var/swap.1
swapon: /var/swap.1: insecure permissions 0644, 0600 suggested.
swapon: /var/swap.1: swapon failed: Device or resource busy
[ec2-user@ip-172-31-13-104 face]$ sudo chmod 600 /var/swap.1
[ec2-user@ip-172-31-13-104 face]$ sudo /sbin/swapon /var/swap.1
swapon: /var/swap.1: swapon failed: Device or resource busy
[ec2-user@ip-172-31-13-104 face]$ sudo wget https://i.pinimg.com/originals/b5/7e/83/b57e83c7894b04923cc05580.jpg
--2020-03-31 09:29:09 5.49 MB/s (file size 2600x1408=20:a83::1931, 26
948004923cc05580.jpg)
Resolving i.pinimg.com (i.pinimg.com)... 23.62.24.79, 2600:1408:20:a83::1931, 26
00:1408:20:a91::1931, ...
Connecting to i.pinimg.com (i.pinimg.com)|23.62.24.79|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 215551 (210K) [image/jpeg]
Saving to: 'b57e83b5842c7894b04923cc05580.jpg'

100%[=================================================================>] 215,551  --.-K/s   in 0.04s

2020-03-31 09:29:09 (5.49 MB/s) - `b57e83b5842c7894b04923cc05580.jpg` saved
[215551/215551]
```

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

$bucket = 'first-sthree';
$keyname = 's.jpg';

$s3 = new S3Client([
    'region'     => 'us-east-2',
    'version'    => '2006-03-01',
    'signature'  => 'v4'
]);

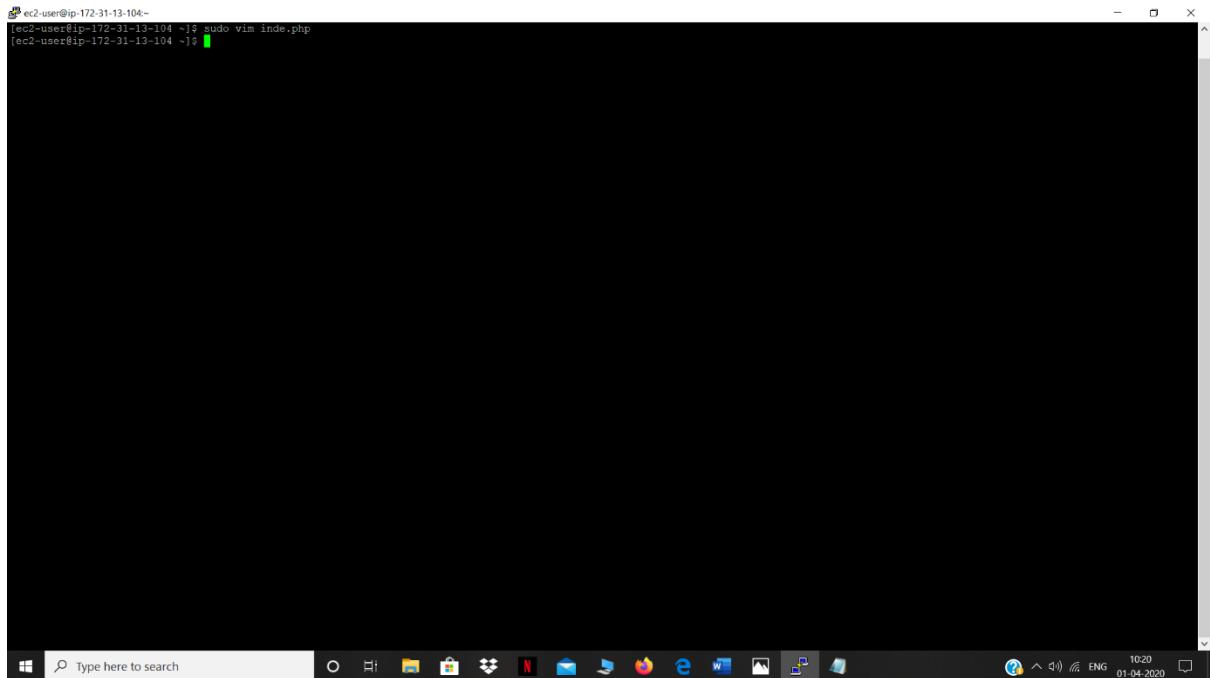
try {
    // Upload data.
    $result = $s3->putObject([
        'Bucket'      => $bucket,
        'Key'         => $keyname,
        'Sourcefile'  => __DIR__ . '/' . $keyname,
        'ACL'         => 'public-read-write'
    ]);
}

// Print the URL to the object.
$imageUrl = $result['ObjectURL'];
if($imageUrl) {
    echo "Image upload done... Here is the URL: " . $imageUrl;

    $rekognition = new RekognitionClient([
        'region'     => 'us-east-2',
        'version'    => 'latest',
    ]);

    $result = $rekognition->detectFaces([
        'Attributes'  => ['DEFAULT'],
        'Image'       => [
            'S3Object' => [
                'Bucket' => $bucket,
                'Name'   => $keyname,
                'Key'    => $keyname,
            ],
        ],
    ]);
    echo "Totally there are " . count($result['FaceDetails']) . " faces";
}
} catch (Exception $e) {
    echo $e->getMessage() . PHP_EOL;
}

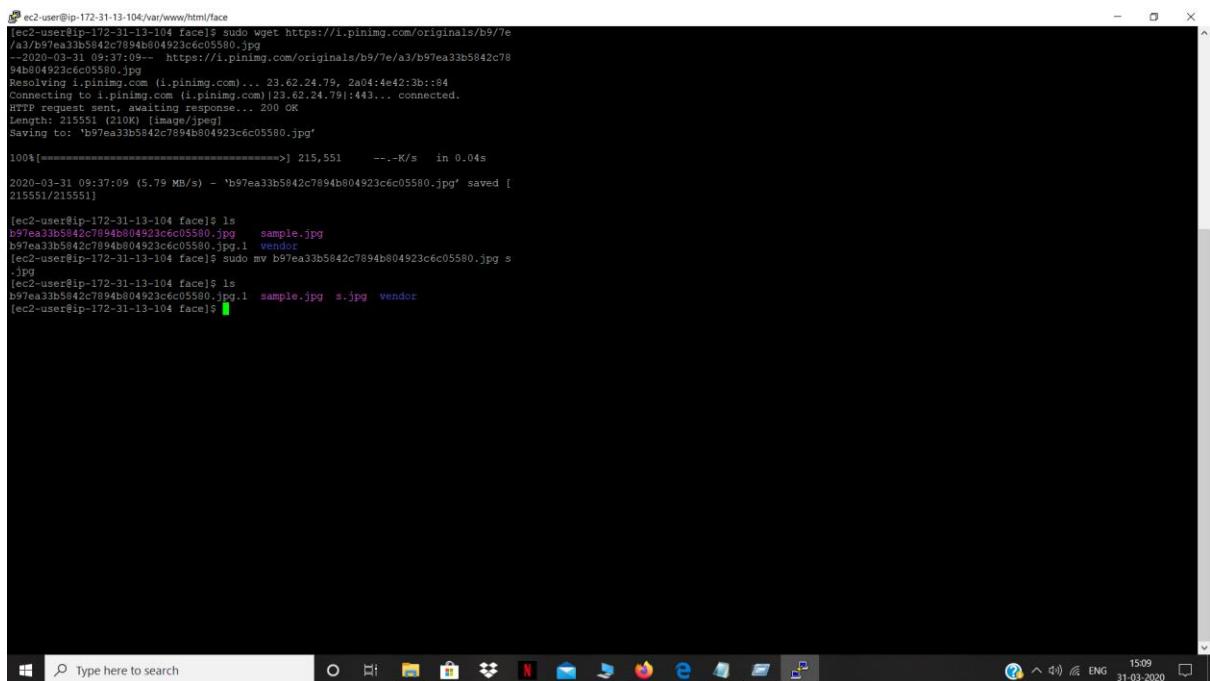
-- INSERT --
```



```
[ec2-user@ip-172-31-13-104 ~]
```

```
[ec2-user@ip-172-31-13-104 ~]$ sudo vim inde.php
```

5. Screenshots for Rekognition



```
[ec2-user@ip-172-31-13-104 ~]
```

```
[ec2-user@ip-172-31-13-104 ~]$ sudo wget https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg
```

```
--2020-03-31 09:37:09-- https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg
```

```
#4b804923c6c05580.jpg
```

```
Resolving i.pinimg.com (i.pinimg.com) ... 23.62.24.79, 2a04:4e42:3b::24
```

```
Conn: 23.62.24.79:443 (i.pinimg.com) [23.62.24.79]:443... connected.
```

```
HTTP request sent, awaiting response... 200 OK
```

```
Length: 215551 (210K) [image/jpeg]
```

```
Saving to: 'b97ea33b5842c7894b804923c6c05580.jpg'
```

```
100%[=====] 215,551 --.-K/s in 0.04s
```

```
2020-03-31 09:37:09 (5.79 MB/s) - 'b97ea33b5842c7894b804923c6c05580.jpg' saved [215551/215551]
```

```
[ec2-user@ip-172-31-13-104 ~]$ ls
```

```
b97ea33b5842c7894b804923c6c05580.jpg sample.jpg
```

```
[ec2-user@ip-172-31-13-104 ~]$ sudo mv b97ea33b5842c7894b804923c6c05580.jpg sample.jpg
```

```
[ec2-user@ip-172-31-13-104 ~]$ ls
```

```
b97ea33b5842c7894b804923c6c05580.jpg sample.jpg s.jpg vendor
```

```
[ec2-user@ip-172-31-13-104 ~]$
```

IAM Management Console

Welcome to Identity and Access Management

IAM users sign-in link: https://806501799682.signin.aws.amazon.com/console

IAM Resources

Users: 0 Roles: 2 Identity Providers: 0 Customer Managed Policies: 0

Security Status

1 out of 5 complete.

- Delete your root access keys
- Activate MFA on your root account
- Create individual IAM users
- Use groups to assign permissions
- Apply an IAM password policy

Feature Spotlight: Introduction to AWS IAM

Additional Information: IAM best practices, IAM documentation, Web Identity Federation Playground, Policy Simulator, Videos, IAM release history and additional resources

Feedback English (US)

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IAM Management Console

Roles

What are IAM roles?

IAM roles are a secure way to grant permissions to entities that you trust. Examples of entities include the following:

- IAM user in another account
- Application code running on an EC2 instance that needs to perform actions on AWS resources
- An AWS service that needs to act on resources in your account to provide its features
- Users from a corporate directory who use identity federation with SAML

IAM roles issue keys that are valid for short durations, making them a more secure way to grant access.

Additional resources:

- IAM Roles FAQ
- IAM Roles Documentation
- Tutorial: Setting Up Cross Account Access
- Common Scenarios for Roles

Create role Delete role

Search

Showing 2 results

Role name	Trusted entities	Last activity
AmazonS3FullAccess	AWS Lambda	Now
AmazonS3FullAccess	AWS Lambda	Now

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IAM Management Console

https://console.aws.amazon.com/iam/home?region=us-east-2#/roles\$new?step=type

Create role

Select type of trusted entity

1 2 3 4

AWS service EC2, Lambda and others

Another AWS account Belonging to you or 3rd party

Web identity Cognito or any OpenID provider

SAML 2.0 federation Your corporate directory

Allows AWS services to perform actions on your behalf. Learn more

Choose a use case

Common use cases

EC2
Allows EC2 instances to call AWS services on your behalf.

Lambda
Allows Lambda functions to call AWS services on your behalf.

Or select a service to view its use cases

API Gateway	CodeDeploy	EMR	KMS	RoboMaker
AWS Backup	CodeGuru	ElastiCache	Kinesis	S3
AWS Chatbot	CodeStar Notifications	Elastic Beanstalk	Lambda	SMS
AWS Support	Comprehend	Elastic Container Service	Lex	SNS

* Required

Cancel Next: Permissions

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IAM Management Console

https://console.aws.amazon.com/iam/home?region=us-east-2#/roles\$new?step=permissions&commonUseCase=EC2%2BEC2&selectedTab=permissions

Attach permissions policies

Choose one or more policies to attach to your new role.

Create policy

Filter policies Search Showing 636 results

Policy name	Used as
AccessAnalyzerServiceRolePolicy	None
AdministratorAccess	None
AlexaForBusinessDeviceSetup	None
AlexaForBusinessFullAccess	None
AlexaForBusinessGatewayExecution	None
AlexaForBusinessNetworkProfileServicePolicy	None
AlexaForBusinessPolyDelegatedAccessPolicy	None
AlexaForBusinessReadOnlyAccess	None

Set permissions boundary

* Required Cancel Previous Next: Tags

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IAM Management Console

Create role

Review

Provide the required information below and review this role before you create it.

Role name* first-iam

Role description Allows EC2 instances to call AWS services on your behalf.

Trusted entities AWS service: ec2.amazonaws.com

Policies AmazonS3FullAccess
AmazonRekognitionFullAccess

Permissions boundary Permissions boundary is not set

No tags were added.

* Required

Cancel Previous Create role

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7-Day Free Masterclass | D IAM Management Console

Attach/Replace IAM Role | EC

Instances > Attach/Replace IAM Role

Attach/Replace IAM Role

Select an IAM role to attach to your instance. If you don't have any IAM roles, choose Create new IAM role to create a role in the IAM console. If an IAM role is already attached to your instance, the IAM role you choose will replace the existing role.

Instance ID I-051166bbc8b29e810 ()

IAM role* first-iam

Create new IAM role

* Required

Cancel Apply

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Instances | EC2 Management

Getting Started

New EC2 Experience

Tell us what you think

EC2 Dashboard New

Events New

Tags

Reports

Limits

INSTANCES

Instances

Instance Types

Launch Templates New

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts New

Capacity Reservations

IMAGES

AMIs

Bundle Tasks

ELASTIC BLOCK STORE

Volumes

Feedback English (US)

Type here to search

Launch Instance Connect Actions ▾

Connect

Get Windows Password

Create Template From Instance

Launch More Like This

Instance State

Instance Settings

Add/Edit Tags

Attach to Auto Scaling Group

Attach/Replace IAM Role

Networking

CloudWatch Monitoring

Change Instance Type

Change Termination Protection

View/Change User Data

Change Shutdown Behavior

Change T2/T3 Unlimited

Get System Log

Get Instance Screenshot

Modify Instance Placement

Modify Capacity Reservation Settings

Instance: i-051166bbc8b29e810 Public DNS: ec2-3-12-164-8.us-east-2.compute.amazonaws.com

Description Status Checks Monitoring Tags

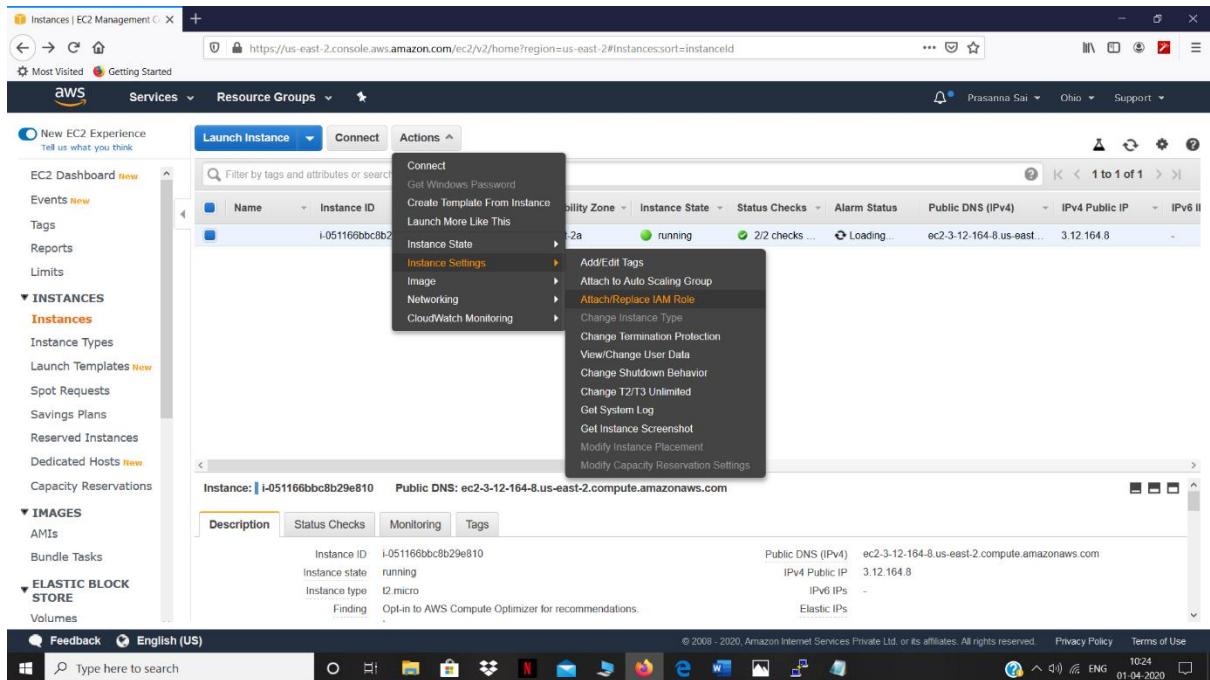
Instance ID: i-051166bbc8b29e810 Instance state: running Instance type: t2.micro

Public DNS (IPv4): ec2-3-12-164-8.us-east-2.compute.amazonaws.com IPv4 Public IP: 3.12.164.8

IPv6 IPs: - Elastic IPs:

Finding Opt-in to AWS Compute Optimizer for recommendations.

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Attach/Replace IAM Role | EC2

Getting Started

Instances > Attach/Replace IAM Role

Attach/Replace IAM Role

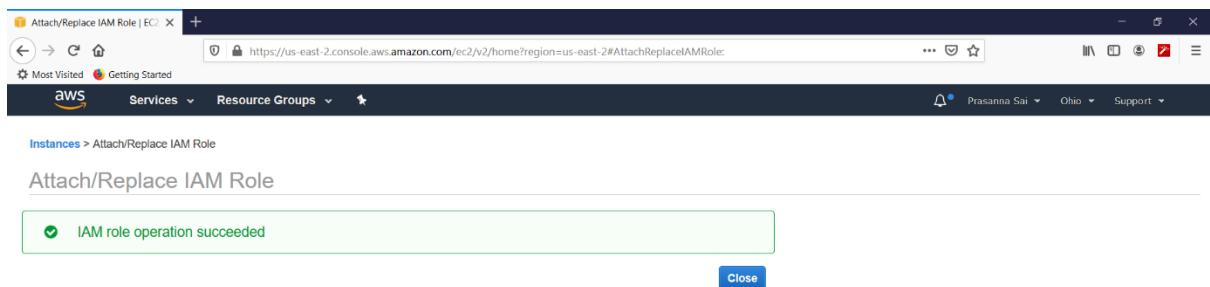
IAM role operation succeeded

Close

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6. Screenshots for EC2&Rekognition

The screenshot shows the AWS S3 Management Console interface. At the top, there are tabs for 'Overview', 'Properties', 'Permissions', 'Management', and 'Access points'. The 'Overview' tab is selected. Below the tabs is a search bar with the placeholder 'Type a prefix and press Enter to search. Press ESC to clear.' Underneath the search bar are buttons for 'Upload', '+ Create folder', 'Download', and 'Actions'. To the right of these buttons, it says 'US East (Ohio)' with a refresh icon. A table below lists three objects: '2020_02_19_10_06_IMG_4567.JPG' (Last modified Mar 29, 2020, Size 1.3 MB, Storage class Standard), 'hope.html' (Last modified Mar 29, 2020, Size 283.0 B, Storage class Standard), and 's.jpg' (Last modified Apr 1, 2020, Size 210.5 KB, Storage class Standard). The 's.jpg' row is highlighted with a blue background. At the bottom of the table, it says 'Viewing 1 to 3'.

