

A photograph of eight cats of various breeds and colors (black, white, orange, silver tabby) sitting on a surface. In the background, a small Christmas tree is decorated with red bows, white stars, and colorful tinsel. A dark gray triangular shape covers the lower half of the image, containing the text.

Amazon S3
Web

Click on s3.console.aws.amazon.com to login to AWS and go to the S3 console

The screenshot below is the older version of the interface. See the next slide for the newer interface

The screenshot shows the Amazon S3 console interface. On the left, there's a sidebar with options like 'Buckets', 'Batch operations', 'Access analyzer for S3', 'Block public access (account settings)', and 'Feature spotlight'. The main area is titled 'S3 buckets' and displays a list of existing buckets. A red box highlights the 'Create bucket' button at the top of the list. Another red box highlights the 'S3 buckets' title. The list includes:

Bucket name	Access	Region	Date created
elasticbeanstalk-us-west-2-739894181370	Objects can be public	US West (Oregon)	Nov 7, 2017 7:19:52 AM GMT-0500
vetssis	Objects can be public	US East (N. Virginia)	May 29, 2019 7:55:46 AM GMT-0400
vssisclients	Objects can be public	Canada (Central)	Jun 17, 2019 2:53:41 PM GMT-0400

At the bottom of the page, there are links for 'Feedback', 'English (US)', 'Privacy Policy', and 'Terms of Use'.

Your S3 console
may be empty so
let's create a
bucket by clicking
on 'Create bucket'

The screenshot shows the AWS S3 console interface. On the left, there's a sidebar with options like 'Buckets', 'Batch Operations', and 'Access analyzer for S3'. The main area displays a table of existing buckets, each with columns for Name, Region, Access, and Creation date. A message at the top encourages switching to the previous console experience. At the bottom right of the main area, there's a prominent orange 'Create bucket' button, which is highlighted with a red rectangular box.

Name	Region	Access	Creation date
cis4010	Canada (Central) ca-central-1	Objects can be public	January 2, 2020, 16:54 (UTC-05:00)
elasticbeanstalk-us-west-2-739894181370	US West (Oregon) us-west-2	Objects can be public	November 7, 2017, 07:19 (UTC-05:00)
vetssis	US East (N. Virginia) us-east-1	Objects can be public	May 29, 2019, 07:55 (UTC-04:00)
vssisclients	Canada (Central) ca-central-1	Objects can be public	June 17, 2019, 14:53 (UTC-04:00)

Some buckets have been redacted for privacy reasons!

Pick a bucket name and a region (you might be restricted to a region by your educational account).

Leave the other choices to their defaults and go to the bottom of the page and click 'Create bucket'.

The screenshot shows the 'Create bucket' page in the AWS S3 console. The 'General configuration' section is highlighted with a red box. It contains fields for 'Bucket name' (set to 'cis4010F2020DemoBucket') and 'Region' (set to 'Canada (Central) ca-central-1'). Below these fields is a link to 'See rules for bucket naming'. A section for 'Copy settings from existing bucket - optional' includes a 'Choose bucket' button. The 'Bucket settings for Block Public Access' section is also visible, containing a checked checkbox for 'Block all public access' and two sub-options under it.

s3.console.aws.amazon.com/s3/bucket/create?region=ca-central-1

AWS Services Resource Groups

Amazon S3 > Create bucket

Create bucket

Buckets are containers for data stored in S3. [Learn more](#)

General configuration

Bucket name

cis4010F2020DemoBucket

Bucket name must be unique and must not contain spaces or uppercase letters. [See rules for bucket naming](#)

Region

Canada (Central) ca-central-1

Copy settings from existing bucket - optional

Only the bucket settings in the following configuration are copied.

Choose bucket

Bucket settings for Block Public Access

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 this bucket and its 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 this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

Block all public access

Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

Block public access to buckets and objects granted through new access control lists (ACLs)

S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.

Block public access to buckets and objects granted through any access control lists (ACLs)

Feedback English (US)

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Oops – it didn't like
my bucket name!

I will remove the
uppercase letters.

The screenshot shows the AWS S3 Bucket Creation Wizard. In the 'Bucket name' field, the user has entered 'cis4010F2020DemoBucket'. A red border surrounds the input field, and a warning message below it states: '⚠ Bucket name must not contain uppercase characters' followed by a link 'See rules for bucket naming'. The 'Region' dropdown is set to 'Canada (Central) ca-central-1'. Below the region, there's a section for 'Copy settings from existing bucket - optional' with a 'Choose bucket' button. The main configuration area is titled 'Bucket settings for Block Public Access'. It contains a summary of how public access is granted through various controls and a detailed list of four specific settings under the heading 'Block all public access'. The first setting is checked and described as turning on all four settings below. The other three settings are also checked and describe how they affect new ACLs, existing buckets/objects, and cross-account access.

Bucket name

cis4010F2020DemoBucket

⚠ Bucket name must not contain uppercase characters

Bucket name must be unique and must not contain spaces or uppercase letters. See rules for bucket naming

Region

Canada (Central) ca-central-1

Copy settings from existing bucket - optional

Only the bucket settings in the following configuration are copied.

Choose bucket

Bucket settings for Block Public Access

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 this bucket and its 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 this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

Block all public access

Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

- Block public access to buckets and objects granted through new access control lists (ACLs)**

S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
- Block public access to buckets and objects granted through any access control lists (ACLs)**

S3 will ignore all ACLs that grant public access to buckets and objects.
- Block public access to buckets and objects granted through new public bucket or access point policies**

S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.
- Block public and cross-account access to buckets and objects through any public bucket or access point policies**

S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

Feedback English (US)

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Now I have a new bucket named:
cis4010f2020demobucket

Click on the bucket name and let's put in some objects.

The screenshot shows the AWS S3 console interface. At the top, there is a success message: "Successfully created bucket 'cis4010f2020demobucket'". Below this, a note says: "While we continue to improve the new version of the S3 console, you can temporarily switch to the previous console experience for buckets. To help us improve the experience, [give feedback](#)". The main area displays a table of buckets:

Name	Region	Access	Creation date
cis4010	Canada (Central) ca-central-1	Objects can be public	January 2, 2020, 16:54 (UTC-05:00)
cis4010f2020demobucket	Canada (Central) ca-central-1	Bucket and objects not public	September 17, 2020, 14:18 (UTC-04:00)
elasticbeanstalk-us-west-2-739894181370	US West (Oregon) us-west-2	Objects can be public	November 7, 2017, 07:19 (UTC-05:00)
vetssis	US East (N. Virginia) us-east-1	Objects can be public	May 29, 2019, 07:55 (UTC-04:00)
vssisclients	Canada (Central) ca-central-1	Objects can be public	June 17, 2019, 14:53 (UTC-04:00)

At the bottom of the page, there are links for "Feedback", "English (US)", "Privacy Policy", and "Terms of Use".

Your bucket is empty.

You can create a ‘folder’
or you can upload an
object.

Let’s create a folder and
call it images.

s3.console.aws.amazon.com/s3/buckets/cis4010f2020demobucket/?region=ca-central-1

AWS Services Resource Groups Deborah Stacey Global Support

Amazon S3 > cis4010f2020demobucket

cis4010f2020demobucket

Overview Properties Permissions Management Access points

Upload + Create folder Download Actions Canada (Central)

This bucket is empty. Upload new objects to get started.

 Upload an object

Buckets are globally unique containers for everything that you store in Amazon S3.

[Learn more](#)

 Set object properties

After you create a bucket, you can upload your objects (for example, your photo or video files).

[Learn more](#)

 Set object permissions

By default, the permissions on an object are private, but you can set up access control policies to grant permissions to others.

[Learn more](#)

[Get started](#)

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Put in the folder name
and click 'Save'

The screenshot shows the AWS S3 console interface. At the top, the URL is s3.console.aws.amazon.com/s3/buckets/cis4010f2020demobucket/?region=ca-central-1. The navigation bar includes the AWS logo, Services dropdown, Resource Groups dropdown, and user Deborah Stacey. Below the navigation is the breadcrumb path Amazon S3 > cis4010f2020demobucket. The main content area shows the bucket cis4010f2020demobucket. A search bar at the top of the list table contains the placeholder "Type a prefix and press Enter to search. Press ESC to clear." Below the search bar are buttons for Upload, Create folder, Download, and Actions. To the right, it shows the region as Canada (Central) with a refresh icon. The main list table has columns for Name, Last modified, Size, and Storage class. A new folder named "images" is being created, indicated by a modal dialog box. The "Name" field contains "images". Below the field, a note states: "When you create a folder, S3 console creates an object with the above name appended by suffix "/" and that object is displayed as a folder in the S3 console. Choose the encryption setting for the object:". Two radio button options are shown: "None (Use bucket settings)" (selected) and "AES-256". A link "Use Server-Side Encryption with Amazon S3-Managed Keys (SSE-S3)" is provided for the AES-256 option. Another radio button option "AWS-KMS" is also listed with its own link "Use Server-Side Encryption with AWS KMS-Managed Keys (SSE-KMS)". At the bottom of the modal are "Save" and "Cancel" buttons, with "Save" being highlighted with a red box.

Amazon S3 > cis4010f2020demobucket

cis4010f2020demobucket

Overview Properties Permissions Management Access points

Type a prefix and press Enter to search. Press ESC to clear.

Upload + Create folder Download Actions

Canada (Central)

Name	Last modified	Size	Storage class
images			

When you create a folder, S3 console creates an object with the above name appended by suffix "/" and that object is displayed as a folder in the S3 console. Choose the encryption setting for the object:

None (Use bucket settings)
 AES-256
Use Server-Side Encryption with Amazon S3-Managed Keys (SSE-S3)
 AWS-KMS
Use Server-Side Encryption with AWS KMS-Managed Keys (SSE-KMS)

Save Cancel

Feedback English (US)

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Now you have a folder named images.

Click on the folder name to go to the folder.

The screenshot shows the AWS S3 console interface. At the top, the URL is s3.console.aws.amazon.com/s3/buckets/cis4010f2020demobucket/?region=ca-central-1. The navigation bar includes the AWS logo, Services dropdown, Resource Groups dropdown, and user information for Deborah Stacey. Below the navigation bar, the breadcrumb path shows 'Amazon S3 > cis4010f2020demobucket'. The main content area displays the 'Properties' tab of the 'cis4010f2020demobucket' bucket. A search bar at the top of the list area contains the placeholder 'Type a prefix and press Enter to search. Press ESC to clear.' Below the search bar are buttons for 'Upload', '+ Create folder', 'Download', and 'Actions'. To the right, the region is set to 'Canada (Central)' with a refresh icon. The file list table has columns for 'Name', 'Last modified', 'Size', and 'Storage class'. A single item, a folder named 'images', is listed. The 'Name' column for this item contains a checkbox and a folder icon. This entire row is highlighted with a red box. At the bottom of the list area, there is another 'Viewing 1 to 1' message. The footer of the page includes links for 'Feedback', 'English (US)', copyright information (© 2008 - 2020, Amazon Web Services, Inc. or its affiliates. All rights reserved.), and 'Privacy Policy' and 'Terms of Use'.

Name	Last modified	Size	Storage class
images	--	--	--

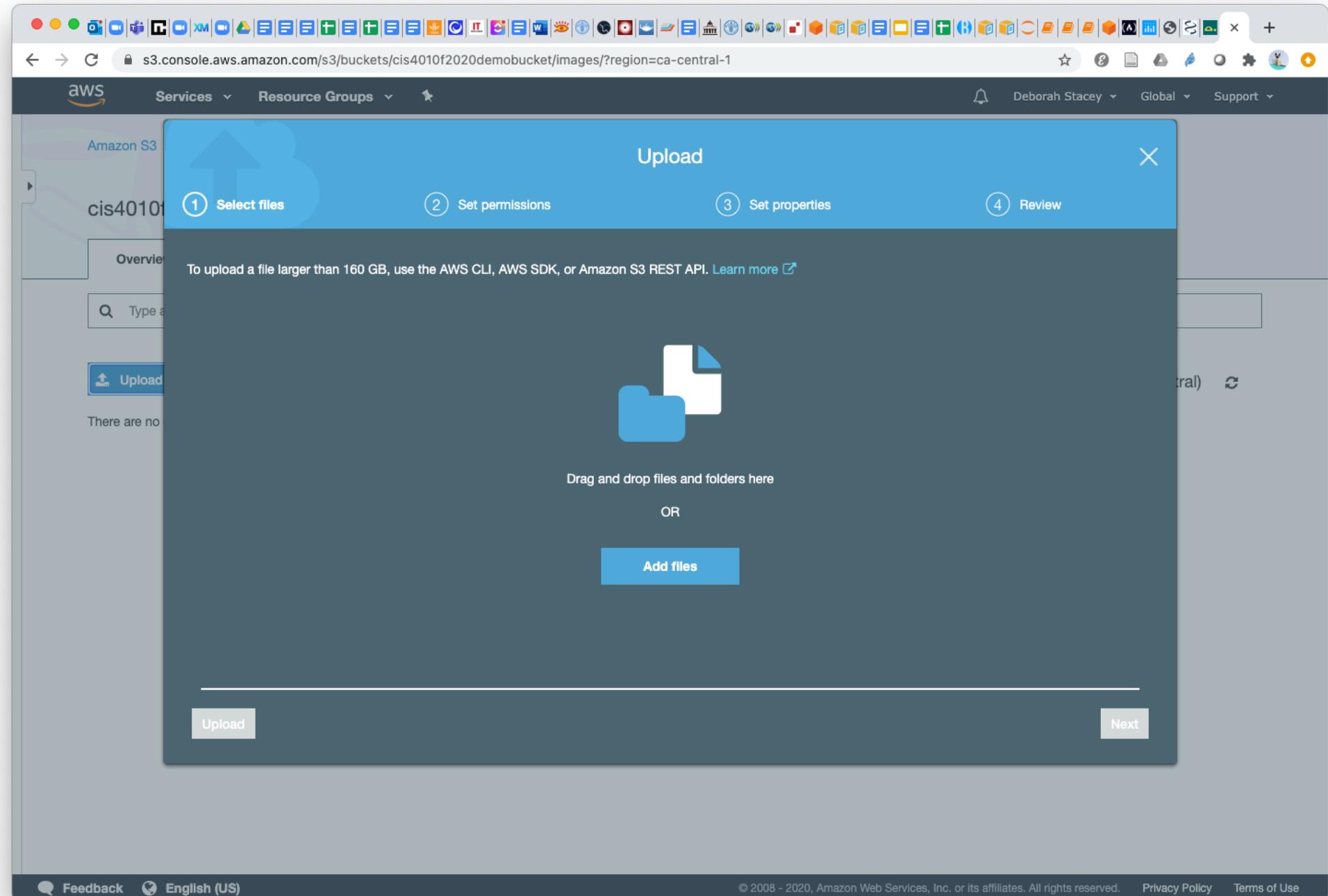
You do not have any objects in your folder.

Let's put a file into this folder.

Click on Upload.

The screenshot shows the AWS S3 console interface. At the top, the URL is s3.console.aws.amazon.com/s3/buckets/cis4010f2020demobucket/images/?region=ca-central-1. The navigation bar includes the AWS logo, Services, Resource Groups, and user Deborah Stacey. Below the navigation, the path is Amazon S3 > cis4010f2020demobucket > images. The main content area shows the folder 'cis4010f2020demobucket' with an 'Overview' tab selected. A search bar contains the placeholder 'Type a prefix and press Enter to search. Press ESC to clear.' Below the search bar are four buttons: 'Upload' (highlighted with a red box), '+ Create folder', 'Download', and 'Actions'. A message 'There are no objects under this path.' is displayed. In the bottom right corner, it says 'Canada (Central)' with a location pin icon. The footer includes links for Feedback, English (US), and various legal notices like Privacy Policy and Terms of Use.

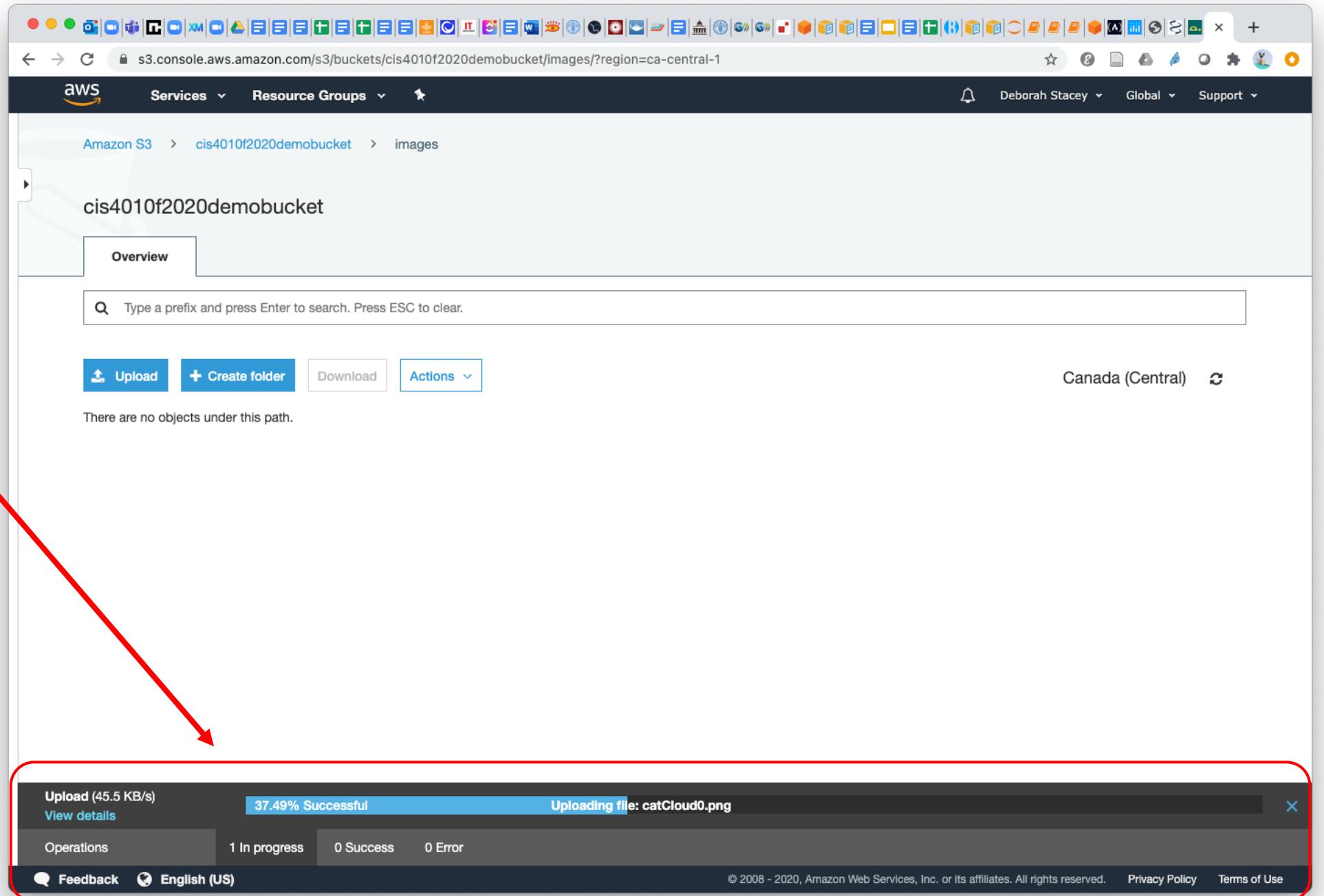
Select a file using drag and drop or using the 'Add files' button.



You have selected a file.

Now hit the Upload button.

The screenshot shows the AWS S3 'Upload' wizard. The main title is 'Upload'. Below it, four steps are listed: 1 Select files, 2 Set permissions, 3 Set properties, and 4 Review. Step 1 is highlighted. The left sidebar shows the bucket 'cis4010f2020demobucket' and its contents. A file named 'catCloud0.png' is selected for upload. The file details are: 1 Files, Size: 1.3 MB, Target path: cis4010f2020demobucket/images/. There is a note about uploading large files via AWS CLI, SDK, or REST API. The 'Upload' button at the bottom of the wizard is highlighted with a red box.



You can watch the progress of your upload at the bottom of the screen.

This will also show you if there were any errors with your uploads.

Now you have an object in your bucket!

Click on the object name to see a description of the object.

The screenshot shows the AWS S3 console interface. At the top, the URL is s3.console.aws.amazon.com/s3/buckets/cis4010f2020demobucket/images/?region=ca-central-1. The navigation bar includes the AWS logo, Services dropdown, Resource Groups dropdown, and user information for Deborah Stacey, Global, and Support. Below the navigation, the breadcrumb path shows Amazon S3 > cis4010f2020demobucket > images. The main content area displays the 'Overview' tab for the 'cis4010f2020demobucket'. A search bar contains the placeholder 'Type a prefix and press Enter to search. Press ESC to clear.' Below the search bar are buttons for Upload, Create folder, Download, and Actions. To the right, it shows the location as Canada (Central) and indicates 1 item. A table lists the object 'catCloud0.png' with details: Name (checkbox), Last modified (Sep 17, 2020 2:28:23 PM GMT-0400), Size (1.3 MB), and Storage class (Standard). The object name 'catCloud0.png' is highlighted with a red box. The bottom of the screen shows operational statistics: 0 In progress, 1 Success, 0 Error. The footer includes links for Feedback, English (US), and legal notices from 2008 to 2020, along with Privacy Policy and Terms of Use.

Name	Last modified	Size	Storage class
catCloud0.png	Sep 17, 2020 2:28:23 PM GMT-0400	1.3 MB	Standard

Operations: 0 In progress, 1 Success, 0 Error

Feedback English (US)

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Click on 'Open' to see the object.

The screenshot shows the AWS S3 console interface. At the top, the URL is s3.console.aws.amazon.com/s3/object/cis4010f2020demobucket/images/catCloud0.png?region=ca-central-1. The navigation path is Amazon S3 > cis4010f2020demobucket > images > catCloud0.png. Below the path, the object name 'catCloud0.png' is displayed with a 'Latest version' link. A horizontal menu bar contains 'Overview', 'Properties', 'Permissions', and 'Select from'. Underneath this, there are several tabs: 'Open' (which is highlighted with a red box), 'Download', 'Download as', 'Make public', and 'Copy path'. Below these tabs, detailed object metadata is listed:

- Owner**: 540a1fc0408df6d5b0641f6cf8b580e36b9305ce91d4c58f172611daf92b3d67
- Last modified**: Sep 17, 2020 2:28:23 PM GMT-0400
- Etag**: d311d42c2f298f3baf0a2ebd1d5525cf
- Storage class**: Standard
- Server-side encryption**: None
- Size**: 1.3 MB
- Key**: images/catCloud0.png
- Object URL**: <https://cis4010f2020demobucket.s3.ca-central-1.amazonaws.com/images/catCloud0.png>

At the bottom of the page, there is a footer with links for 'Operations', 'Feedback', 'English (US)', and legal notices including 'Privacy Policy' and 'Terms of Use'.

What a surprise –
it's a cat!



Let's go back to the information page about the object.

Lots of information here - other tabs of information to select!

Let's look at 'Permissions'

The screenshot shows the AWS S3 console interface. At the top, there is a navigation bar with the AWS logo, 'Services' dropdown, 'Resource Groups' dropdown, and user information for 'Deborah Stacey'. Below the navigation bar, the path 'Amazon S3 > cis4010f2020demobucket > images > catCloud0.png' is displayed. The main content area shows the file 'catCloud0.png' with its 'Latest version'. A red box highlights the 'Permissions' tab in the top navigation bar of the file details section. Below the tabs, there are several action buttons: 'Open', 'Download', 'Download as', 'Make public', and 'Copy path'. The file metadata listed includes: Owner (540a1fc0408df6d5b0641f6cf8b580e36b9305ce91d4c58f172611daf92b3d67), Last modified (Sep 17, 2020 2:28:23 PM GMT-0400), Etag (d311d42c2f298f3baf0a2ebd1d5525cf), Storage class (Standard), Server-side encryption (None), Size (1.3 MB), Key (images/catCloud0.png), and Object URL (<https://cis4010f2020demobucket.s3.ca-central-1.amazonaws.com/images/catCloud0.png>). At the bottom of the page, there is a footer with 'Operations' (0 In progress, 1 Success, 0 Error), 'Feedback' (English (US)), and links to 'Privacy Policy' and 'Terms of Use'.

This will allow you to adjust the permissions on the object. You can adjust permissions for the object owner, other AWS accounts, and the public.

But remember when you created this bucket you did not open it for public access so you cannot choose to make this object public.

What would you have to do to make it public?

The screenshot shows the AWS S3 console interface. The URL in the address bar is s3.console.aws.amazon.com/s3/object/cis4010f2020demobucket/images/catCloud0.png?region=ca-central-1&tab=permissions. The top navigation bar includes the AWS logo, Services, Resource Groups, a notification bell, and user Deborah Stacey.

The breadcrumb navigation shows: Amazon S3 > cis4010f2020demobucket > images > catCloud0.png.

The main content area has tabs: Overview, Properties, Permissions (which is selected), and Select from.

Access for object owner:

Canonical ID	Read object	Read object permissions	Write object permissions
540a1fc0408df6d5b0641f6cf8b580e36b9305ce 91d4c58f172611daf92b3d67 (Your AWS account)	Yes	Yes	Yes

Access for other AWS accounts:

+ Add account Delete

Canonical ID	Read object	Read object permissions	Write object permissions

Public access:

The block public access settings turned on for this bucket prevent granting public access.

Group	Read object	Read object permissions	Write object permissions
Everyone	-	-	-

A red box highlights the "Public access" section.

Page footer: Feedback English (US) © 2008 - 2020, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use

In the folder window we can see all actions that can be done on the selected object.

You also have a summary window that lists properties and permissions associated with this object.

Now you know how to create buckets and fill them with objects via the AWS Web interface.

Happy S3'ing!

The screenshot shows the AWS S3 console with the URL s3.console.aws.amazon.com/s3/buckets/cis4010f2020demobucket/images/?region=ca-central-1&tab=overview. The main left pane displays the 'Overview' of the 'cis4010f2020demobucket' bucket, showing a list of objects. A file named 'catCloud0.png' is selected. An 'Actions' dropdown menu is open over this file, listing options like Open, Download as, Get total size, Change storage class, Restore, Change encryption, Change metadata, Add tags, Make public, Rename, Delete, Undo delete, Copy, Move, and Select from. To the right, a detailed modal window for 'catCloud0.png' is open, showing its properties and permissions. The 'Overview' tab in the modal shows the following details:

Key	catCloud0.png
Size	1.3 MB
Expiration date	N/A
Expiration rule	N/A
ETag	d311d42c2f298f3baf0a2ebd1d5525cf
Last modified	Sep 17, 2020 2:28:23 PM GMT
Object URL	https://cis4010f2020demobucket.s3.ca-central-1.amazonaws.com/images/catCloud0.png

The 'Properties' tab shows:

Storage class	Standard
Encryption	None
Metadata	1
Tags	0 Tags
Object lock	Disabled

The 'Permissions' tab shows:

Owner	
Object Read	1 Grantees
Object permissions Read	1 Grantees
Write	1 Grantees

At the bottom, there are links for Feedback, English (US), and various AWS services.