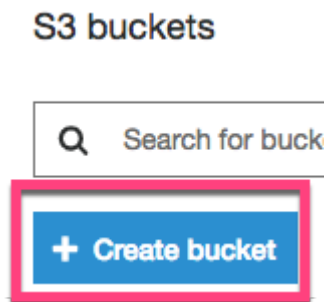


Cloud Storage on S3

- Go to console.aws.amazon.com and then select S3 under Storage.



- Click "Create bucket".



- Create a bucket name and choose the region.
- Note:** The bucket name must be unique across all existing bucket names in Amazon S3. Buckets cannot be renamed or created inside of another bucket.
- Leave the region as the default **US East (N. Virginia)**. Changing the region will change the object URL used in all examples today.

Create bucket

1 Name and region

2 Configure options

3 Set permissions

4 Review

Name and region

Bucket name ⓘ

data-bootcamp-003

Region

US East (N. Virginia) ▾

Copy settings from an existing bucket

Select bucket (optional)2 Buckets ▾

Create

Cancel

Next

- Most of the options on the Configure Options tab can stay as the default values.
- Tags are user-defined key-value pairs of information that can help keep track of buckets.
- Click Next.

- The Set Permissions page allows us to grant permissions for accessing buckets.
- Many [security breaches](#) have been the result of unsecured S3 buckets.
- Public access is denied by default.
 - Leave the boxes checked and click Next.

- The Review page is a summary of the bucket configurations. Click "Create bucket." The bucket name now appears in the S3 console.

Create bucket

✓ Name and region

✓ Configure options

✓ Set permissions

4 Review

Name and region

Edit

Bucket name

data-bootcamp-003

Region

US East (N. Virginia)

Options

Edit

Versioning

Disabled

Server access logging

Disabled

Tagging

1 Tags

Object-level logging

Disabled

Default encryption

None

CloudWatch request metrics

Disabled

Object lock

Disabled

Permissions

Edit

Block new public ACLs and uploading public objects

False

Remove public access granted through public ACLs

False

Block new public bucket policies

False

Block public and cross-account access if bucket has public policies

False

Previous

Create bucket

aws

Services

Resource Groups

★

Amazon S3 Block Public Access let's you to enforce a "no public access" policy for your accounts & buckets. [Learn more »](#)

S3 buckets

🔍 Search for buckets

+ Create bucket

Edit public access settings

Empty

Delete

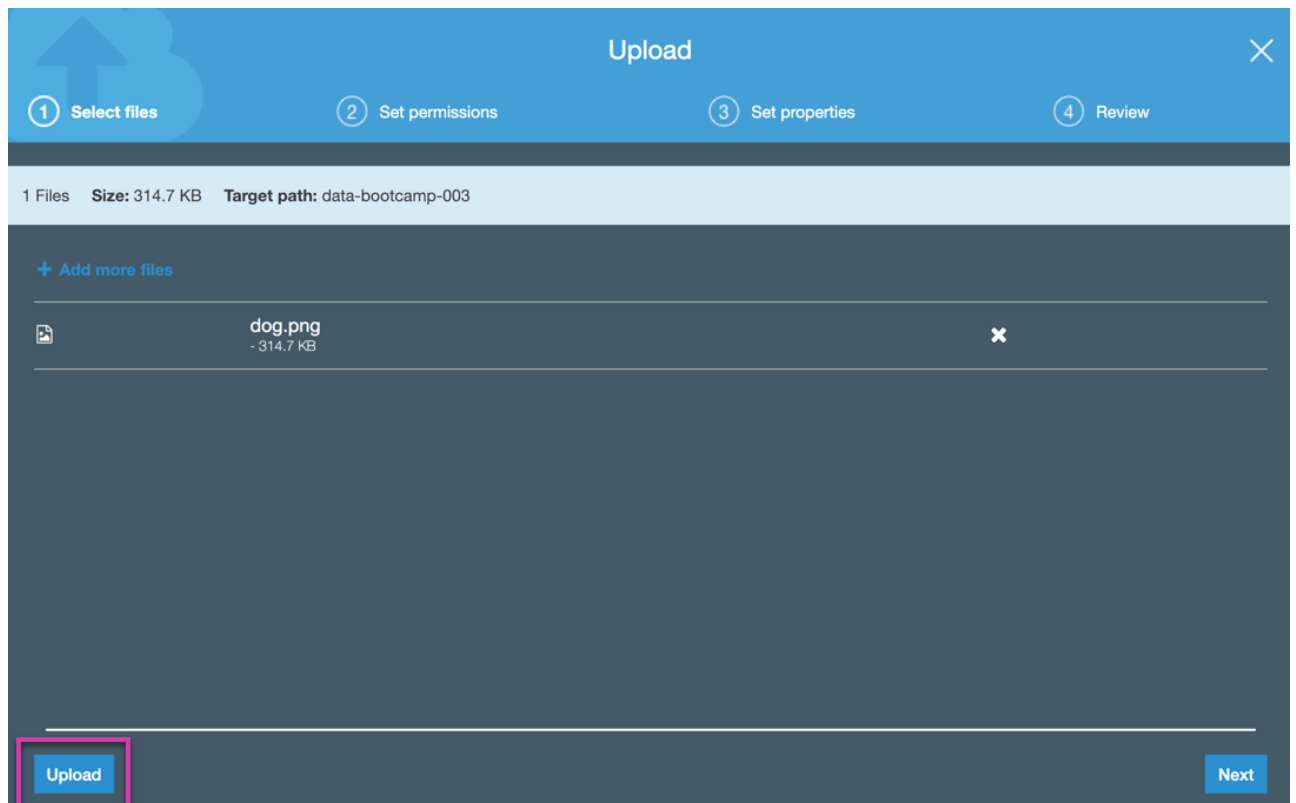
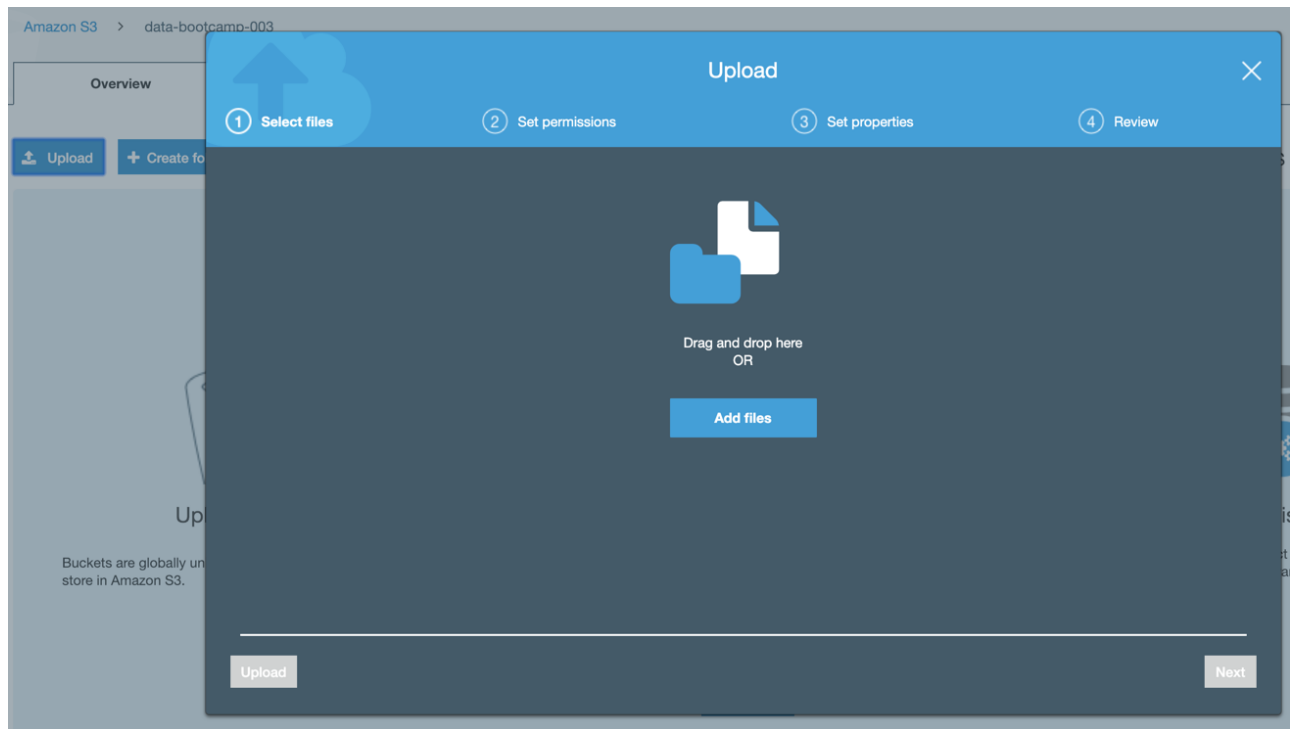
☐ Bucket name

Access ⓘ

☐ data-bootcamp-003

Objects can be public

- We'll now upload an image file to the newly created bucket. Click the bucket name and then click Upload.
 - You can drag a file to the screen to upload it..
- Click Upload.




- Click the filename.

Amazon S3 > data-bootcamp-003

Overview Properties Permissions Management

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

Upload + Create folder Download Actions ▾

<input type="checkbox"/> Name ▾	Last modified ▾	Size ▾
<input type="checkbox"/>  dog.png	Jan 23, 2019 1:47:46 PM GMT-0600	314.7 KB

- Explain why clicking the link generates an error message.

dog.png Latest version ▾

Overview Properties Permissions Select from

Open Download Download as Make public Copy path

Owner
[redacted]

Last modified
Jan 23, 2019 1:47:46 PM GMT-0600

Etag
538e554d15278dcc584272d5fa31ebbe

Storage class
Standard

Server-side encryption
None

Size
314.7 KB

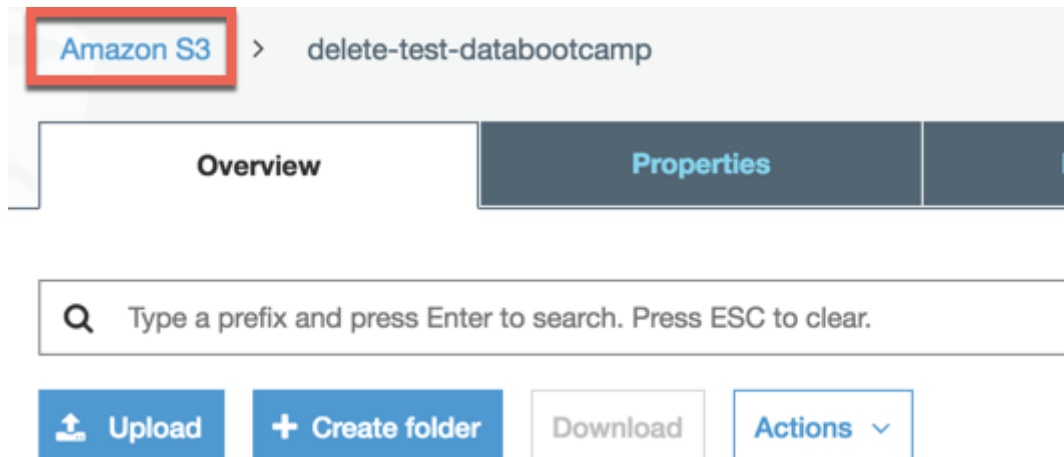
Key
dog.png

Object URL
<https://s3.amazonaws.com/data-bootcamp-003/dog.png>

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Error>
  <Code>AccessDenied</Code>
  <Message>Access Denied</Message>
  <RequestId>1D8CF8F36314A678</RequestId>
  <HostId>
    KKD+vtlAndWxLBLa+XQDGBGORaXoEe78T9kJOMUBQCsbpVNeellvDwEzx20vIBuikYBcvbYiM6s=
  </HostId>
</Error>
```

- By default, the permission for the file denies access to everyone, so you need to change it.
- Navigate back to the dashboard by clicking Amazon S3 on the top left.



- Check the box next to your bucket and click "Edit public access settings."



- Make sure all boxes are unchecked on the next screen. Even though these were checked in the initial setup, they should not be now.

✕

Edit public access settings for selected buckets

Total buckets: 1 (Public: 0)

Public access settings for selected buckets

Use the Amazon S3 block public access settings to enforce that buckets don't allow public access to data. You can also configure the Amazon S3 block public access settings at the account level. [Learn more](#)

Manage public Access control lists (ACLs) for selected buckets

- ☐ Block new public ACLs and uploading public objects (*Recommended*)
- ☐ Remove public access granted through public ACLs (*Recommended*)

Manage public bucket policies for selected buckets

- ☐ Block new public bucket policies (*Recommended*)
- ☐ Block public and cross-account access if bucket has public policies (*Recommended*)

Cancel Save

- Click Save, then type "confirm" and click the Confirm button.

✕

Edit public access settings for selected buckets

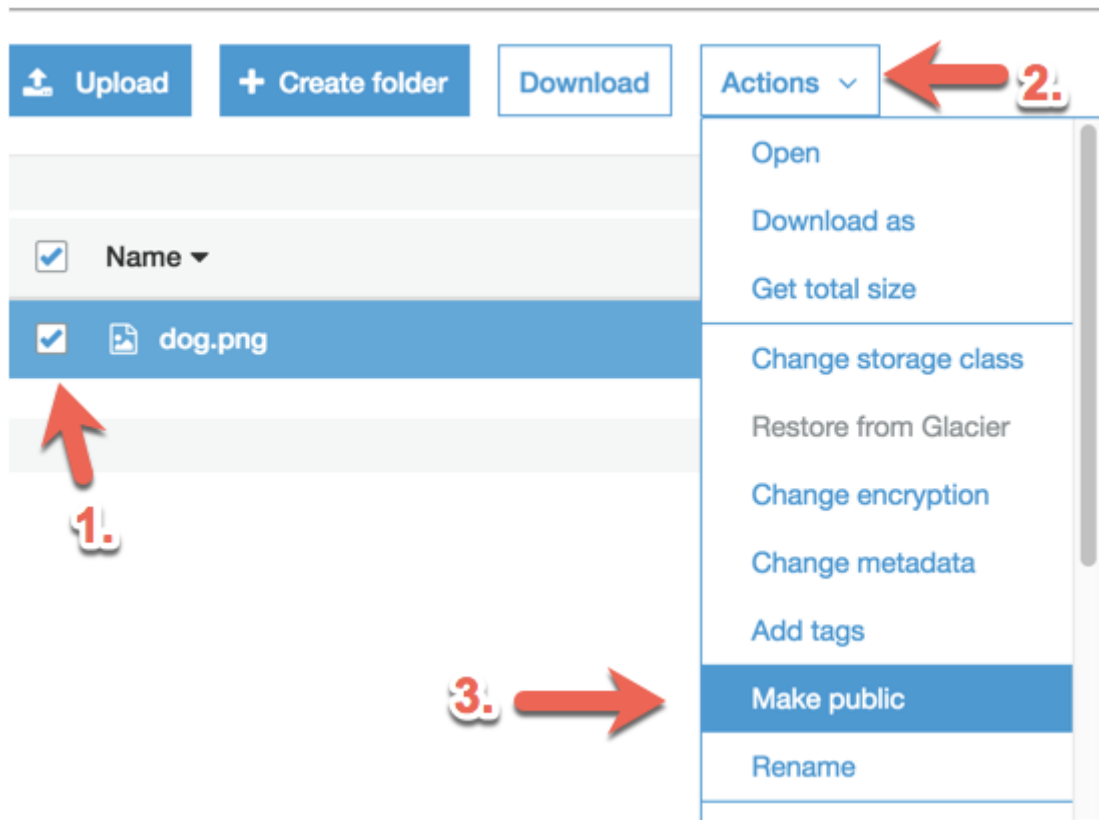
Updating the Amazon S3 block public access settings affects all selected buckets.

To confirm the settings, type *confirm* in the field.

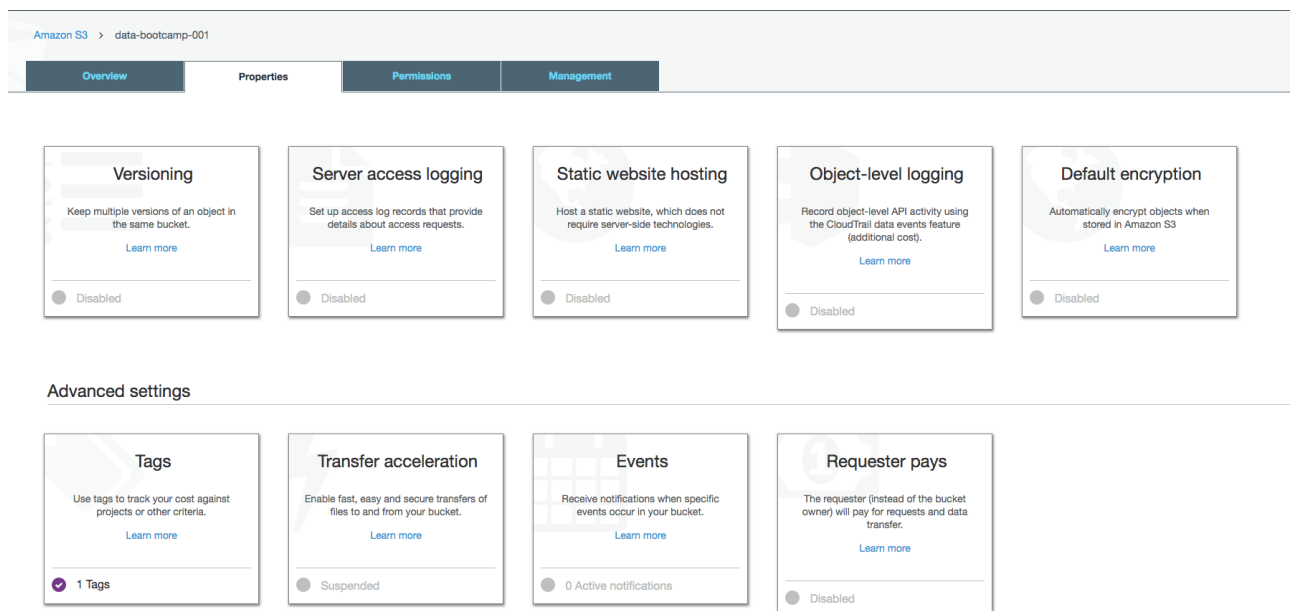
confirm

Cancel Confirm

- Next, navigate back into your bucket and check the box next to the image. Click the Actions box and select "Make public".



- Now the image will be displayed when you click on the link.
- You can explore various settings at the bucket level and the file level. Use the tabs at the bucket level to explore the available settings, such as tags:



- **Note:** You can remove public access at any time by repeating the preceding steps and checking all the boxes in Edit public access settings.