



科技系列課程

# AWS雲計算實務班第01期

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# 建立S3 bucket



# Step 1 : <https://aws.amazon.com/tw/> Login AWS Console



登入主控台



## Step 2 : Search for the S3 service

The screenshot displays the AWS Management Console interface. On the left, a sidebar lists various AWS service categories. A red arrow points from the 'Services' icon in the sidebar to a red-bordered box containing the text 'Services'. In the main content area, a search bar at the top contains the text 's3'. A red arrow points from this search bar to another red-bordered box containing the text 'Search for services, features, blogs, docs, and more [Alt+S]'. Below the search bar, a list of services is shown. A red arrow points from the 'S3' service entry to a red-bordered box containing the text 'Storage S3'. The 'Storage S3' box also has a red arrow pointing to the 'Storage' category in the sidebar.

aws Services

Management

- Compute
- Containers
- Customer Enablement
- Database
- Developer Tools
- End User Computing
- Front-end Web & Mobile
- Game Development
- Internet of Things
- Machine Learning
- Management & Governance
- Media Services
- Migration & Transfer
- Networking & Content Delivery
- Quantum Technologies
- Robotics
- Satellite
- Security, Identity, & Compliance
- Storage

Storage

Search for services, features, blogs, docs, and more [Alt+S]

S3 Scalable Storage in the Cloud

S3 Glacier Archive Storage in the Cloud

Storage Gateway Hybrid Storage Integration

Storage S3



## Step 3 : Click **Create bucket** in S3 to create a bucket

The screenshot shows the Amazon S3 console interface. The left sidebar contains navigation links for Buckets, Access Points, Object Lambda Access Points, Multi-Region Access Points, Batch Operations, Access analyzer for S3, Block Public Access settings, Storage Lens, Dashboards, AWS Organizations settings, Feature spotlight, and AWS Marketplace for S3. The main content area displays the 'Account snapshot' and 'Buckets (0)' section. The 'Buckets (0)' section includes a search bar, a table with columns for Name, AWS Region, Access, and Creation date, and a 'Create bucket' button. A red box highlights the 'Create bucket' button in the top right corner of the 'Buckets (0)' section, with a red arrow pointing down to a larger orange box with the text 'Create bucket'.

Amazon S3

Account snapshot

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

View Storage Lens dashboard

Buckets (0) [info](#)

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

Find buckets by name

Name	AWS Region	Access	Creation date
No buckets			
You don't have any buckets.			
<a href="#">Create bucket</a>			

Create bucket





## Step 4 : Enter bucket name in **Bucket Name** field

aws Services Search [Alt+S]

Amazon S3 > Buckets > Create bucket

### Create bucket [Info](#)

Buckets are containers for data stored in S3.

#### General configuration

AWS Region  
US East (N. Virginia) us-east-1

Bucket type [Info](#)

☒ General purpose  
Recommended for most use cases and access patterns. General purpose buckets are the original S3 bucket type. They allow a mix of storage classes that redundantly store objects across multiple Availability Zones.

☐ Default storage class  
Recommended for most use cases and access patterns. Default storage class buckets are the original S3 bucket type. They allow a mix of storage classes that redundantly store objects across multiple Availability Zones.

Bucket name [Info](#)

image009

Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#)

Copy settings from existing bucket (optional)

Bucket name

image009



# Step 5 : Change Object Ownership item to be **ACLs enabled**

aws Services Search for services, features, blogs, docs, and more [Alt+S] Global

Copy settings from existing bucket - optional  
Only the bucket settings in the following configuration are copied.  
Choose bucket

**Object Ownership** Info  
Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

☐ ACLs disabled (recommended)  
All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.

☒ **ACLs enabled**  
Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

**Object Ownership**  
☒ **Bucket owner preferred**  
If new objects written to this bucket specify the bucket-owner-full-control canned ACL, they are owned by the bucket owner. Otherwise, they are owned by the object writer.  
☐ Object writer  
The object writer remains the object owner.

**Block Public Access settings for this bucket**  
Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to

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## ☒ **ACLs enabled**

Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.



# Step 6 : Remove the select of **Block all public access**, selelect **I Acknowledge that...**

**Block Public Access settings for this bucket**

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, and their access points. To ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply to all buckets and objects in the bucket. If you require some level of public access to this bucket or object, 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.

**Turning off block all public access might result in this bucket and the objects within becoming public**  
AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.

☒ I acknowledge that the current settings might result in this bucket and the objects within becoming public.

**Turning off block all public access might result in this bucket and the objects within becoming public**  
AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.

☒ I acknowledge that the current settings might result in this bucket and the objects within becoming public.





## Step 7 : Click **Create bucket** to create bucket

aws Services Search for services, features, blogs, docs, and more [Alt+S] Global

**Tags (0) - optional**  
Track storage cost or other criteria by tagging your bucket. [Learn more](#)

No tags associated with this bucket.

[Add tag](#)

**Default encryption**  
Automatically encrypt new objects stored in this bucket. [Learn more](#)

Server-side encryption

☒ Disable  
☐ Enable

► **Advanced settings**

After creating the bucket you can upload files and folders to the bucket, and configure additional bucket settings.

[Cancel](#) [Create bucket](#)

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# Step 8 : You can see the bucket in the list of Dashboard

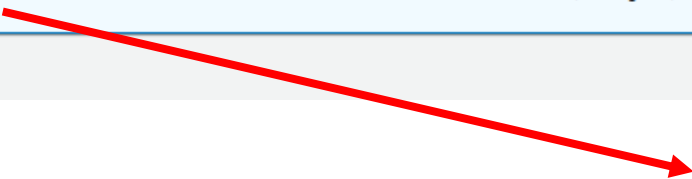
**General purpose buckets (2)** [Info](#) All AWS Regions

Buckets are containers for data stored in S3.

[Refresh](#) [Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

< 1 > [Settings](#)

	Name ▲	AWS Region ▼	IAM Access Analyzer	Creation date ▼
<input type="radio"/>	<a href="#">elasticbeanstalk-us-east-1-165714642706</a>	US East (N. Virginia) us-east-1	<a href="#">View analyzer for us-east-1</a>	July 10, 2024, 14:57:58 (UTC+08:00)
<input checked="" type="radio"/>	<a href="#">image009</a>	US East (N. Virginia) us-east-1	<a href="#">View analyzer for us-east-1</a>	July 11, 2024, 09:25:52 (UTC+08:00)





**Upload a file to S3 bucket**



# Step 1 : You can see the bucket in the list of Dashboard

**General purpose buckets (2)** [Info](#) [All AWS Regions](#)

Buckets are containers for data stored in S3.

[Refresh](#) [Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

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<input checked="" type="radio"/>	<a href="#">image009</a>	US East (N. Virginia) us-east-1	<a href="#">View analyzer for us-east-1</a>	July 11, 2024, 09:25:52 (UTC+08:00)





## Step 2 : Click **upload**

**Objects (0)**

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Copy S3 URI Copy URL Download Open Delete Actions Create folder **Upload**

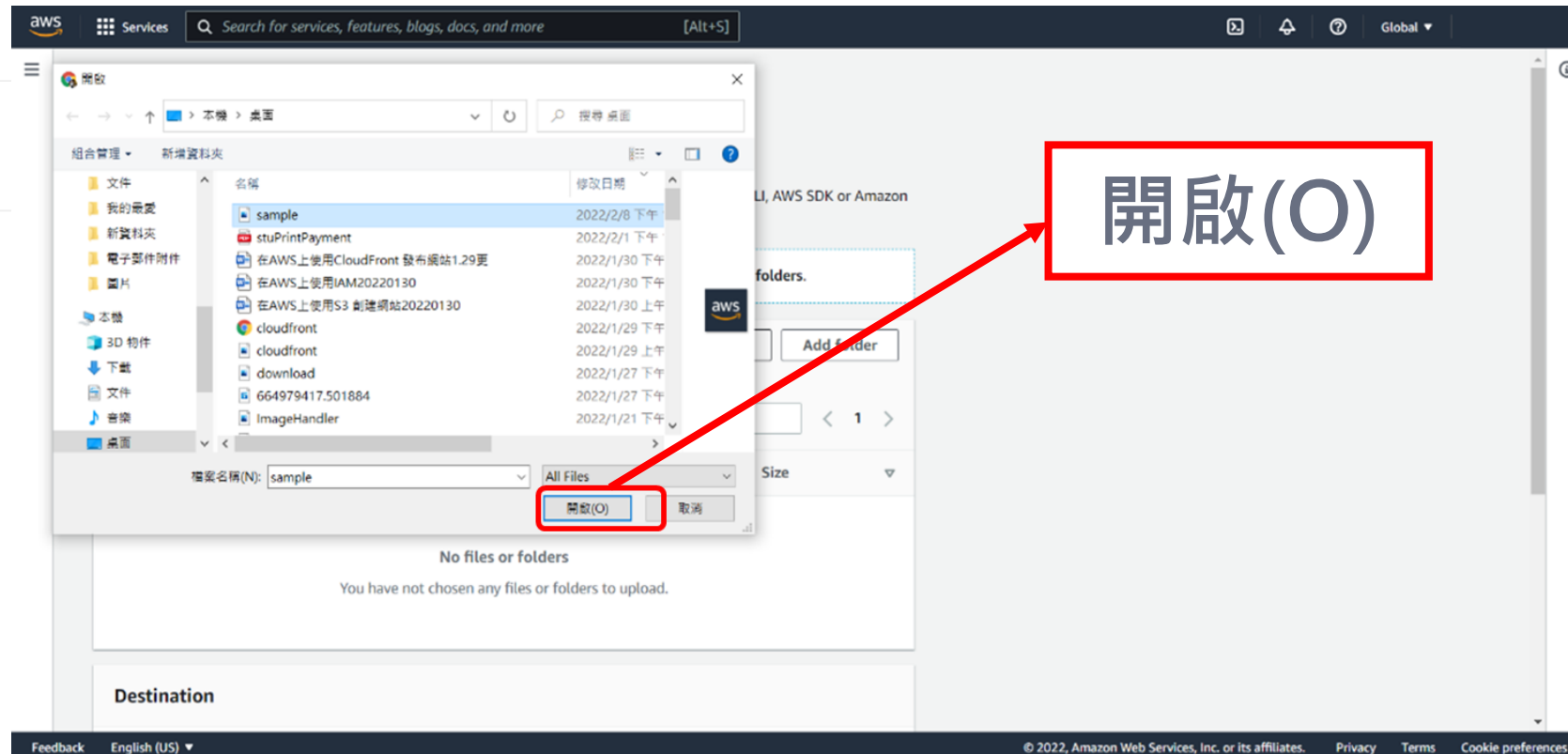
<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
No objects					
You don't have any objects in this bucket.					
Upload					







## Step 4 : Select the image file and click 開啟 or Open





## Step 5 : Click **Upload** to upload file

The screenshot shows the AWS console interface for uploading a file. The top navigation bar includes the AWS logo, a search bar, and a language dropdown set to 'Global'. The main content area is titled 'Files and folders (1 Total, 13.2 KB)' and contains a table with one file, 'sample.jpg', which is 13.2 KB in size. Below the table, there are sections for 'Destination' (s3://image009), 'Permissions', and 'Properties'. At the bottom right, there are two buttons: 'Cancel' and 'Upload'. A red box highlights the 'Upload' button, and a red arrow points to it from a larger orange box with the word 'Upload' in the center.

**Files and folders (1 Total, 13.2 KB)**

All files and folders in this table will be uploaded.

Find by name

<input type="checkbox"/>	Name	Folder	Type	Size
<input type="checkbox"/>	sample.jpg	-	image/jpeg	13.2 KB

**Destination**

Destination  
s3://image009

► **Destination details**  
Bucket settings that impact new objects stored in the specified destination.

► **Permissions**  
Grant public access and access to other AWS accounts.

► **Properties**  
Specify storage class, encryption settings, tags, and more.

Cancel **Upload**

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## Step 3 : Select **Add files** to upload image file

The screenshot shows the AWS S3 'Upload' console for a bucket named 'image009'. The page title is 'Upload' with an 'Info' link. Below the title, there is a message: 'Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)'. A dashed box contains the text: 'Drag and drop files and folders you want to upload here, or choose **Add files**, or **Add folders**.' Below this, there is a section titled 'Files and folders (0)' with a 'Remove' button and two buttons: 'Add files' and 'Add folder'. The 'Add files' button is highlighted with a red box, and a red arrow points from it to a larger red box containing the text 'Add files'. Below the buttons is a search bar with the placeholder 'Find by name' and a table with columns: Name, Folder, Type, and Size. The table is currently empty, displaying 'No files or folders' and 'You have not chosen any files or folders to upload.' At the bottom, there is a 'Destination' section. The footer of the console shows 'Feedback', 'English (US)', and copyright information for 2022.

Amazon S3 > image009 > Upload

### Upload [Info](#)

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)

Drag and drop files and folders you want to upload here, or choose **Add files**, or **Add folders**.

**Files and folders (0)** [Remove](#) [Add files](#) [Add folder](#)

All files and folders in this table will be uploaded.

<input type="checkbox"/>	Name	Folder	Type	Size
No files or folders				
You have not chosen any files or folders to upload.				

**Destination**

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Step 6 : After **Upload succeeded** shown and click **sample.jpg** for setup

The screenshot displays the AWS Management Console interface. At the top, a green banner indicates "Upload succeeded" with a link to "View details below." Below this, a summary section shows the upload status: "Succeeded" with a green checkmark and "1 file, 13.2 KB (100.00%)". The "Failed" section shows "0 files, 0 B (0%)". The "Files and folders" tab is selected, showing a list of files. A red box highlights the "sample.jpg" file in the list, and a red arrow points from this box to a larger red box containing the text "Sample.jpg".

Name	Folder	Type	Size	Status	Error
<a href="#">sample.jpg</a>	-	image/jpeg	13.2 KB	✓ Succeeded	-



# Step 7 : Click Object URL to view image using browser

The screenshot shows the AWS S3 console interface. The left sidebar contains navigation options like Buckets, Access Points, and Storage Lens. The main content area displays the details for the object 'sample.jpg' in the 'image009' bucket. The 'Object overview' section lists various metadata fields. A red box highlights the 'Object URL' field, which contains the URL 'https://image009.s3.amazonaws.com/sample.jpg'. A red arrow points from this box to a larger red box at the bottom of the slide that also contains the same URL, preceded by a document icon.

Amazon S3 > image009 > sample.jpg

sample.jpg Info

Copy S3 URI Download Open Object actions

Properties Permissions Versions

Object overview

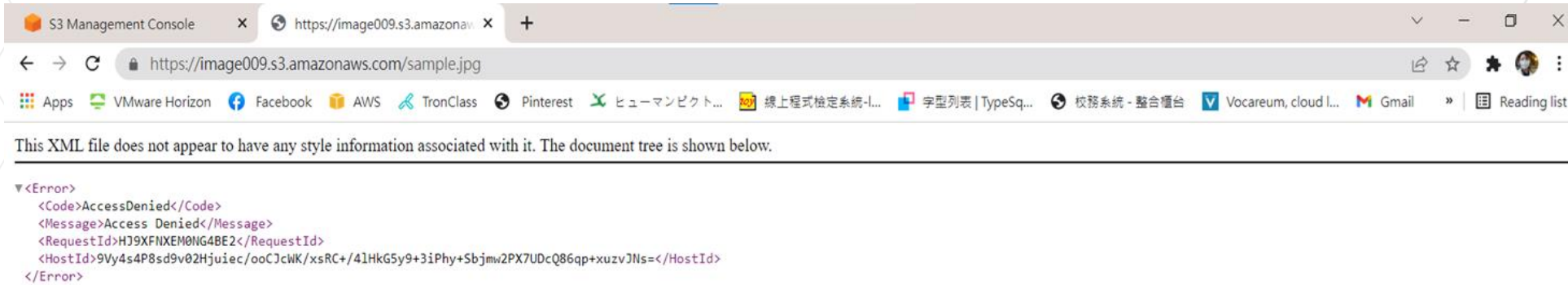
Owner	moment04100	S3 URI	s3://image009/sample.jpg
AWS Region	US East (N. Virginia) us-east-1	Amazon Resource Name (ARN)	arn:aws:s3::image009/sample.jpg
Last modified	February 9, 2022, 15:44:32 (UTC+08:00)	Entity tag (Etag)	567e5abbee892be2b0014c82b77ab686
Size	13.2 KB	Object URL	https://image009.s3.amazonaws.com/sample.jpg
Type	jpg		
Key			

https : //image009.s3.amazonaws.com/sample.jpg





# Image can not be displayed due to Access Denied so as to modify the ACL setting





# Step 8 : Click Permissions, and click Edit to edit ACL of this file

Amazon S3 > image009 > sample.jpg

sample.jpg Info

Download Open Object actions

Properties **Permissions** Versions

**Access control list (ACL)**  
Grant basic read/write permissions to AWS accounts. [Learn more](#)

Grantee	Object	Object ACL
Object owner (your AWS account) Canonical ID: 17518f3250ad6e8502e4f6aa4da727077b4fccb83e91d770beafe0eb9048ac7	Read	Read, Write
Everyone (public access) Group: http://acs.amazonaws.com/groups/global/AllUsers	-	-
Authenticated users group (anyone with an AWS account) Group: http://acs.amazonaws.com/groups/global/AuthenticatedUsers	-	-

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## Step 9 : select **Read of Everyone** (public access)

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Amazon S3 > image009 > sample.jpg > Edit access control list

### Edit access control list [Info](#)

**Access control list (ACL)**  
Grant basic read/write permissions to AWS accounts. [Learn more](#)

Grantee	Objects	Object ACL
Object owner (your AWS account) Canonical ID: 17518f3250ad6e8502e4f6aa4da727077b4fccb83e91d770beafe0eb9048acf7	<input checked="" type="checkbox"/> Read	<input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Write
Everyone (public access) Group: http://acs.amazonaws.com/groups/global/AllUsers	<input checked="" type="checkbox"/> <b>Read</b>	<input checked="" type="checkbox"/> <b>Read</b> <input type="checkbox"/> Write
Authenticated users group (anyone with an AWS account) Group: http://acs.amazonaws.com/groups/global/AuthenticatedUsers	<input type="checkbox"/> Read	<input type="checkbox"/> Read <input type="checkbox"/> Write

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# Step 10 : Select I understand the effects ... and press Save changes

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account)  
Group: http://acs.amazon  
aws.com/groups/global/Authen  
ticatedUsers

⚠ When you grant access to the Everyone or Authenticated users group grantees, anyone in the world can access this object.  
[Learn more](#)

☒ I understand the effects of these changes on this object.

Access for other AWS accounts  
No other AWS accounts associated with the resource.  
[Add grantee](#)

Specified objects

Name	Type	Last modified	Size
sample.jpg	jpg	February 9, 2022, 15:44:32 (UTC+08:00)	13.2 KB

Cancel [Save changes](#)

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⚠ When you grant access the Everyone or Authenticated users group grantees, access this object.  
[Learn more](#)

☒ I understand the effectd of these changes on this object.

Save changes



Step 11 : Reflash Object URL to view image, you can witness this image shown







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