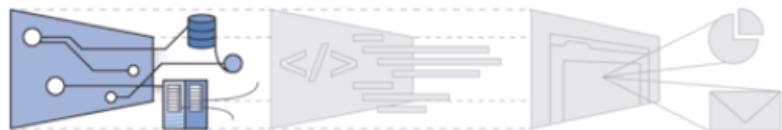
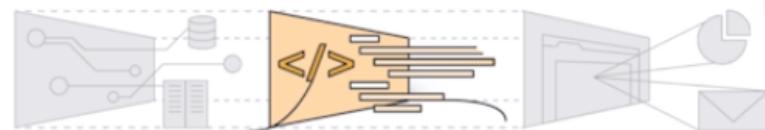


Cloud Computing Models



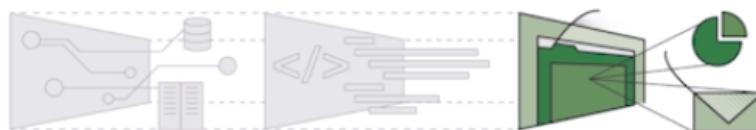
Infrastructure as a Service (IaaS):

Contains the basic building blocks for cloud IT:
Eg. VPC, EC2, EBS



Platform as a Service (PaaS):

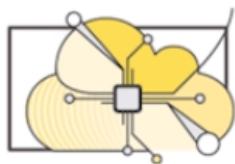
AWS manages the underlying infrastructure (usually hardware and operating systems)
Eg. RDS, EMR, ElasticSearch



Software as a Service (SaaS):

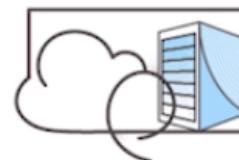
Completed product that is run and managed by the service provider. Mostly refers to end-user applications:
Eg. Web-based email, Office 365, Salesforce.com

Cloud Computing Deployment Models



Cloud:

Fully deployed in the cloud and all parts of the application run in the cloud



Hybrid:

Connecting infrastructure and applications between cloud-based resources and existing resources that are not located in the cloud.



On-premises:

Deploying resources on-premises, using virtualization and resource management tools, is sometimes called “private cloud”.



AWS Global Infrastructure



16 Regions

- Choose a region to optimise latency, minimise costs, or address regulatory requirements.

42 Availability Zones

- Insulated from failures in other Availability Zones.

50+ Edge Locations

- CloudFront distributions at edge locations for high performance delivery of content.



Region and Availability Zones

Coming Soon



Serverless Computing

- Allows you to build and run applications and services without thinking about servers.
- Also referred to as Function-as-a-Service (FaaS) or Abstracted services.
- Examples:
 - Amazon Simple Storage Service (S3)
 - AWS Lambda
 - Amazon DynamoDB
 - Amazon SNS



Storage



- S3



- Storage Gateway



- Glacier



- EFS

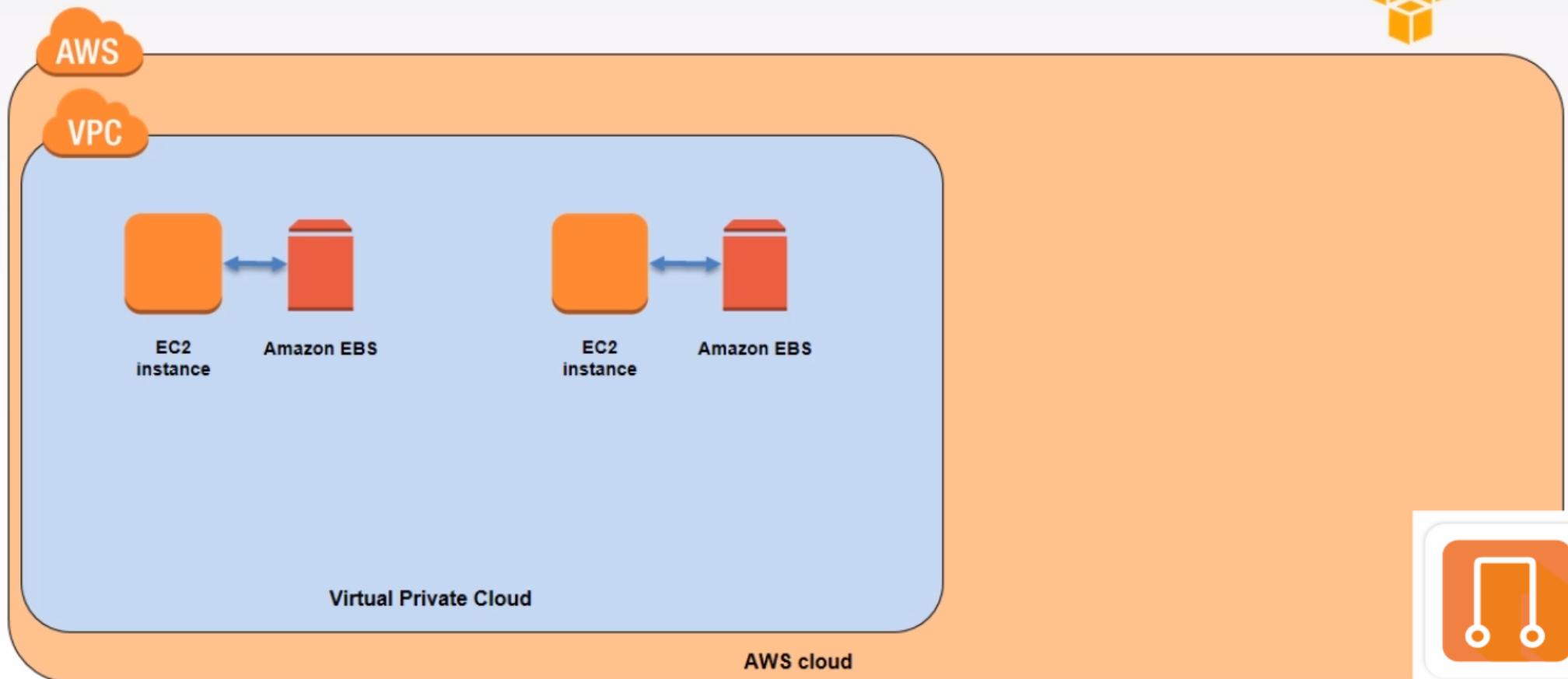


- EBS

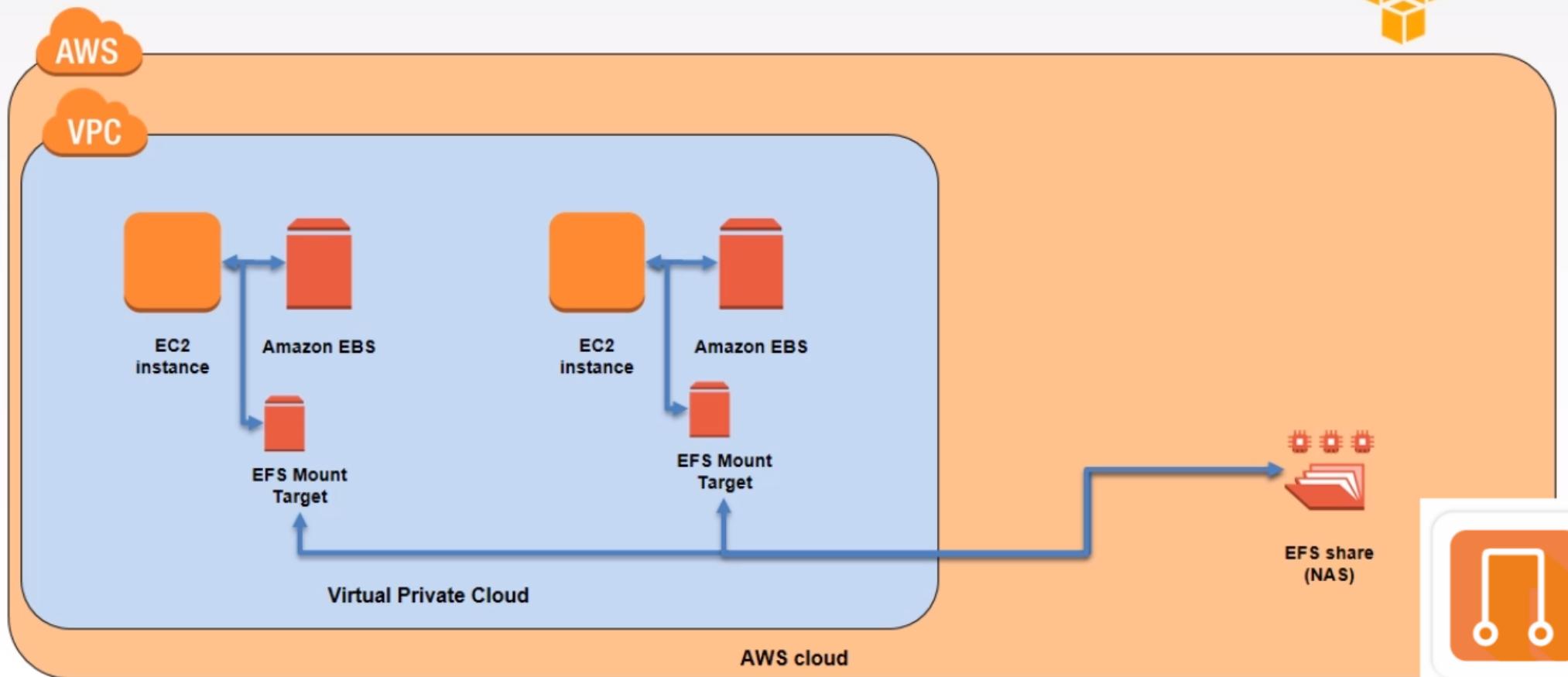


- AWS Import Export Snowball

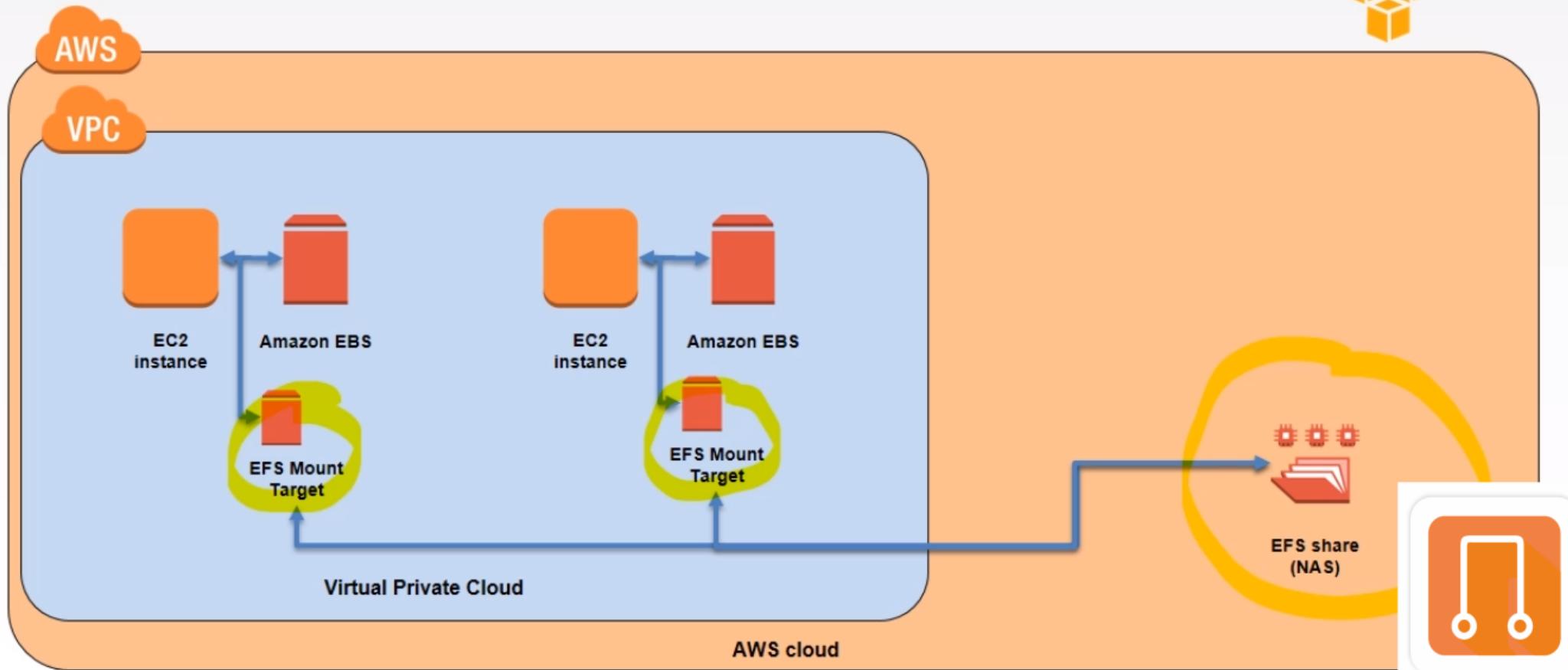
Storage Example



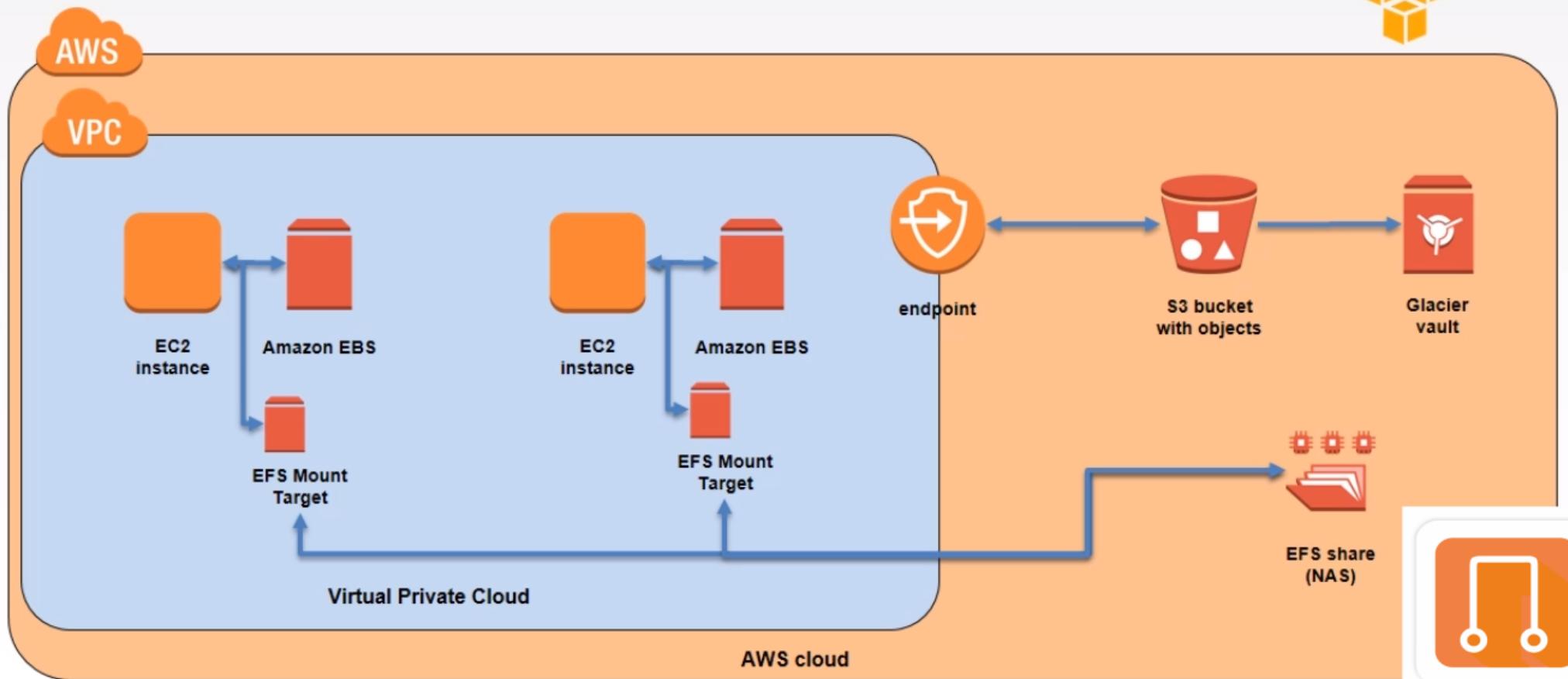
Storage Example



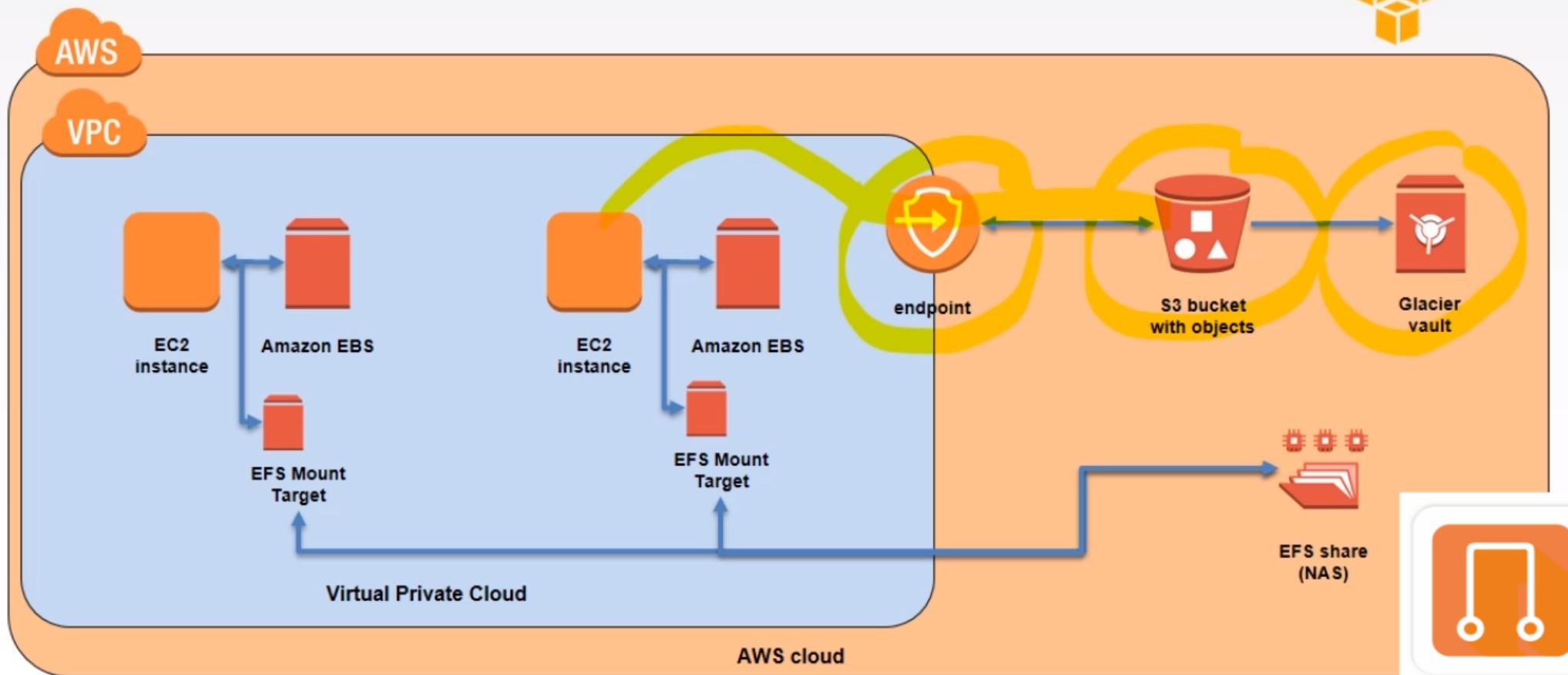
Storage Example



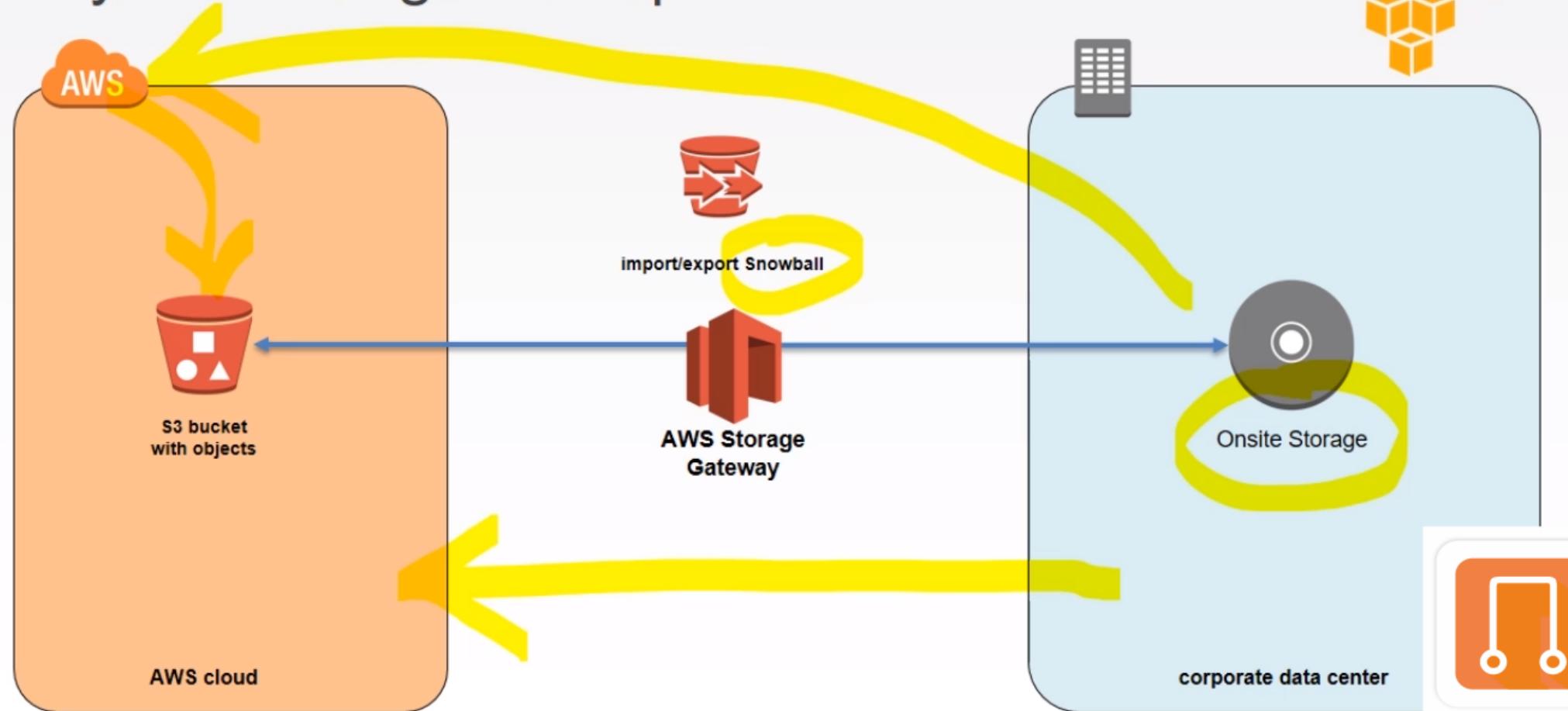
Storage Example



Storage Example



Hybrid Storage Example



What is Snowball? Petabyte scale data transport





CREATE A JOB

Create a new data transfer job in the [AWS Management Console](#). AWS will ship you one or more Snowball appliances based on the amount of data.



CONNECT THE SNOWBALL

Connect the appliance to your network and set the [IP address](#). Download the Snowball client and job [manifest](#) from the Console, run the client to connect and identify data to transfer.



COPY TO THE SNOWBALL

The client will encrypt and copy data to the appliance at high speed. Once complete, the E ink shipping label will automatically update.

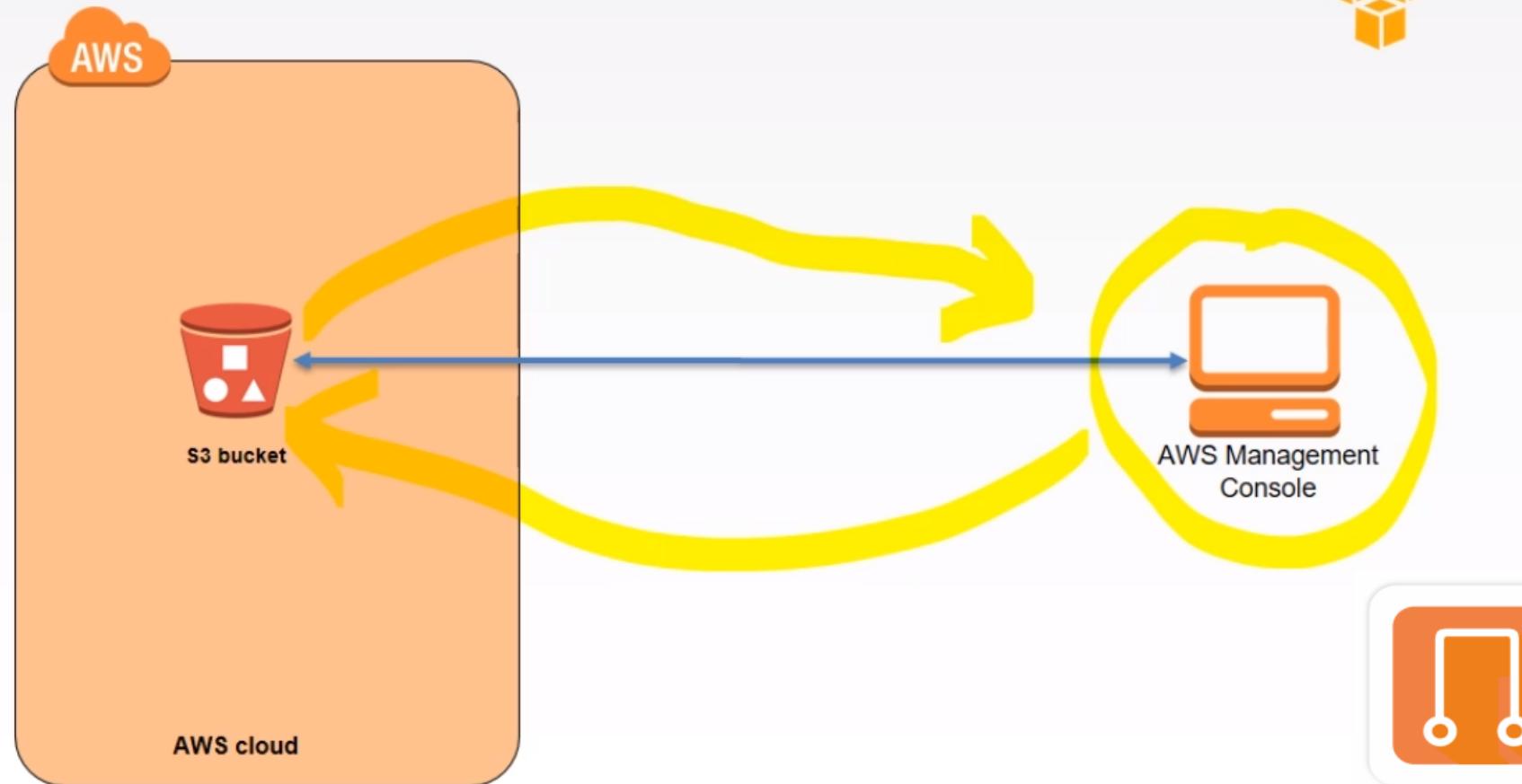


AWS WILL MOVE YOUR DATA TO S3

Track the job status via Amazon SNS, text messaging, or directly in the Console.



Lets Go!





Identify optimal storage classes with S3 Analytics - Storage Class Analysis. [Learn More »](#)

[Documentation](#)



Amazon S3

[Discover the new console](#)

[Quick tips](#)

[Search for buckets](#)

[Create bucket](#)

[Delete bucket](#)

[Empty bucket](#)

0 Buckets 0 Public

0 Regions

You do not have any buckets. Here is how to get started with Amazon S3.



Create a new bucket



Upload your data



Set up your permissions



Create bucket

① Name and region

② Set properties

③ Set permissions

④ Review

Name and region

Bucket name 

aws-associate-networknuts

Region

Asia Pacific (Mumbai)

Copy settings from an existing bucket

You have no buckets

0 Buckets

Create

Cancel

Next



Create bucket

with S3

1 Name and region 2 Set properties 3 Set permissions 4 Review

Versioning

Keep multiple versions of an object in the same bucket.

[Learn more](#)

Disabled

Server access logging

Set up access log records that provide details about access requests.

[Learn more](#)

Disabled

Tags

Use tags to track your cost against projects or other criteria.

Object-level logging

Record object-level API activity using the CloudTrail data events feature (additional cost).

Previous Next



Create bucket

with S3

1 Name and region 2 Set properties 3 Set permissions 4 Review

Versioning

Keep multiple versions of an object in the same bucket.

[Learn more](#)

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Use tags to track your cost against projects or other criteria.

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[Previous](#) [Next](#)



with S3

Create bucket

3 Set permissions

4 Review

Manage users

User ID	Objects	Object permissions
alok(Owner)	<input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Write	<input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Write

Access for other AWS account [+ Add account](#)

Account	Objects	Object permissions
---------	---------	--------------------

Manage public permissions

Do not grant public read access to this bucket (Recommended)

Manage system permissions

Previous Next



Create bucket

with S3

Name and region Set properties Set permissions Review

Name and region Edit

Bucket name aws-associate-networknuts Region Asia Pacific (Mumbai)

Properties Edit

Versioning Disabled

Server access logging Disabled

Tagging 0 Tags

Object-level logging Disabled

Default encryption None

Permissions Edit

Users 1

Previous Create bucket





Amazon S3



Search for buckets

+ Create bucket

Delete bucket

Empty bucket

Bucket name

Access



aws-associate-networknuts

Not public *

* Objects might still be publicly accessible due to object ACLs. [Learn more](#)



Overview

Properties

Permissions

 Upload

 Create folder

More 

This bucket is empty. Upload new objects.



Upload an object



Set object properties

After you create a bucket, you can use it to store objects.



orknuts

Upload

① Select files ② Set permissions ③ Set properties ④ Review

More ▾

1 Files Size: 54.5 KB Target path: aws-associate-networknuts

+ Add more files

change.doc
- 54.5 KB

Upload

Next

This screenshot shows the AWS S3 'Upload' interface. At the top, there's a blue header with the word 'Upload' and four numbered steps: 'Select files', 'Set permissions', 'Set properties', and 'Review'. Below the header, it says '1 Files' and 'Size: 54.5 KB' with a target path 'aws-associate-networknuts'. There's a link to 'Add more files'. A single file named 'change.doc' is listed, showing its size as 54.5 KB. At the bottom left is a large blue 'Upload' button, and at the bottom right is a blue 'Next' button.



Upload

1 Select files 2 Set permissions 3 Set properties 4 Review

Manage users

User ID	Objects	Object permissions
alok(Owner)	<input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Write	<input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Write

Access for other AWS account

+ Add account

Account	Objects	Object permissions
---------	---------	--------------------

Manage public permissions

Do not grant public read access to this object(s) (Recommended)

Upload Previous Next



Upload

Select files Set permissions ③ Set properties ④ Review

Storage class

Choose one depending on your use case scenario and performance access requirements.

Standard Standard-IA Reduced redundancy

Encryption

Protect data at rest by using Amazon S3 master-key or by using AWS KMS master-key.

None i Amazon S3 master-key AWS KMS master-key

Metadata

Metadata is a set of name-value pairs. You cannot modify object metadata after it is uploaded.

Name	Value
test	value

Upload Previous Next



Upload

Select files Set permissions Set properties Review

Files Edit
1 Files Size: 54.5 KB

Permissions Edit
1 grantees

Properties Edit

Encryption No Storage class Standard

Metadata

Tag

Previous Upload



Overview

Properties

Permissions

Management

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

 Upload

 Create folder

More 

<input type="checkbox"/>	Name	Last modified	Size
<input type="checkbox"/>	change.doc	Feb 16, 2018 8:37:25 PM GMT+0530	54.5 KB



Overview Properties Permissions Management

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

Upload Create folder More ▾

Name	Last modified
change.doc	Feb 16, 2018 8:37:25 PM GMT+0530

More ▾

- Open
- Get size
- Download as
- Rename
- Delete
- Undo delete
- Cut
- Copy
- Paste
- Change storage class



Overview Properties Permissions Management

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

Upload Create folder More

Name	Last modified
<input checked="" type="checkbox"/> change.doc	Feb 16, 2018 8:37 GMT+0530

Download as X

Right-click the download link below and choose "Save link as..."

[change.doc](#)





Amazon S3



Search for buckets

+ Create bucket

Delete bucket

Empty bucket

Bucket name ↑☰

Access ⓘ ↑☰



aws-associate-networknuts

Not public *

* Objects might still be publicly accessible due to object ACLs. [Learn more](#)



Delete bucket

X

Are you sure you want to delete the bucket "aws-associate-networknuts" ?

Type the name of the bucket to confirm:

aws-associate-networknuts

Amazon S3 buckets are unique. If you delete this bucket, you may lose the bucket name to another AWS user.

Cancel

Confirm