Simple Storage Service (s3)

Introduction

- It is first and oldest service launched in March 14, 2006
- Objects Size range in s3 is: min 1 Byte, max 5 TB
- No.of Buckets : 100, No.of Objects : unlimited
- Amazon S3 provides storage through web services interfaces (REST, SOAP, and BitTorrent).

<u>Terminology</u>

Term	Description
Bucket	A logical unit of storage in s3

Objectives

- Creating Bucket
- Loading/uploading objects into bucket
- Download the object
- Adding Permission to Buckets
- Removing objects && Bucket
- Upload static site to s3 and access it as public

Pre-Requisites

- AWS Account (Signup User) / IAM User Account (Sign Up Account / IAM User Creation is not in scope of this document)
- Practical knowledge on AWS CLI / AWS Console

Instructions

Creating Bucket

1. Go to Services -> Select Storage && Content Delivery -> Click on s3



2. Click on Create Bucket

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Cr	eate Bucket Actions ~	None	Properties	Transfers	୯
AII	Buckets (2)' Name				
Q	bucket-my-bucket				
9	cf-templates-1izq5w7pltp3r-us-east-1				



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3. Enter the name of the bucket and click on create

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Create Bucket Actions Y			None	Properties	Transfers	୯
Name		Transfers				×
cf-templates-1izq5w7pllp3r-us-east-1	Create a Bucket - Select a Bucket Na	ame and Region Cance	×			
	A bucket is a container for objects stored in Am to optimize for latency, minimize costs, or addre bucket naming convventions, please visit the Am Bucket Name: test-bucket-test-test Region: US Standard	azon S3. When creating a bucket, you can choose a Reg ses regulatory requirements. For more information regard azon S3 documentation.	ion ing			
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4. Now the bucket created and ready to store the objects

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Create Bucket Actions ~	None Properties Transfers C ^a
All Buckets (3) Name C bucket-my-bucket C cf-templates-lzg5w7plp3r-us-east-1 C best-buckettesttest	Bucket: test-bucket-test × Bucket: test-bucket-test Region: Oregon Creation Date: Wed May 04 17:43:46 GMT+530 2016 · Owner: rantel(JB87 · • Permissions · • Static Website Hosting · • Logging · • Events · • Versioning · • Lifecycle · • Cross-Region Replication • Tags · • Transfer Acceleration
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Loading/uploading objects into the bucket

1. Click on the bucket name && click on upload

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Upload Create Folder Actions >	Q Search by prefix	No	ne Propertie	s Transfers	C
All Buckets / test-bucket-test-test					
Name	S	torage Class	Size	ast Modified	

The bucket 'test-bucket-test-test' is empty

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2. Click on the Add Files

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Upload Create Folder All Buckets / test-bucket-te	Actions ×	Q Search by prefix None	e Properties Transfers	୯	
Name	Upload - Select Files and Folders		Cancel 🗵 Last Modified		
	Upload to: All Buckets / test-bucket-test-test To upload files (up to 5 TB each) to Amazon S3, click Add Files. You can also drag and click the X to the far right of the file name.	d drop files and folders to the area below. To remove files already s	selected,		
	Drag and drop files and folders to upload here.				
	No files added				
		Set Details > Start Upload	Cancel		
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3. Click on Start Upload

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Upload Create	Folder Actions Y	Q Search by prefix None	Propert	ties Transfers	ୈ
Name	Upload - Select Files and Folders		Cancel 💌	Last Modified	
	Upload to: All Buckets / test-bucket-test-test To upload files (up to 5 TB each) to Amazon S3, click Add Files click the X to the far right of the file name. Drag an	. You can also drag and drop files and folders to the area below. To remove files already In drop files and folders to upload here.	selected,		
	CFT-VI prog (1344 KB) Add Files Remove Selected Files Number of files: 1 Total upload size: 1344 KB	Ser Details > Stort Jinhard	X		
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4. Now uploaded the object into the bucket and ready for download

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Upload Create Folder	Actions ¥			Q Search by prefix None Properties Transfers C
All Buckets / test-bucket-t	est-test			
Name	Storage Class	Size	Last Modified	Object: CFT-VI.png ×
				Bucker: set-bucket-test-test Link: 6 Intras/IS3-Us-west-2.amazonaws.com/test-bucket-test-test/CFT-VLpng Link: 6 Intras/IS3-US-WEST-2.amazonaws.com/test-bucket-test-test/CFT-VLpng Set: 37711 Last Modified: Vect May 04 17:65-09 GMT+530 2016 Permissions Permissions • Metadata
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Download the objects from s3

1. Click on the Link provided by object

A ML the open not appear to have any style information associated with it. The	accument tree is shown below.	
rror»		
Hessage>Access Denied		
<pre>cRequestId>C78579E8CAD8AE06 cHostId></pre>		
HmP7cjKTLbH66hqHcxk2N+iQfP1oI3j502Frpcr3JU36Kz4/ohf//QfJQn1Ns2Fix	3zun256gL0+	
Errer»		
	4	

2. It will give the below o/p when first time

Adding Permission to Buckets

- 1. Select the object && click on properties tab && click on permissions
- 2. Add the download permissions to everyone and click on save

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Upload Create Folder	Actions 👻			Q Search by prefix None Properties Transfers (
All Buckets / test-bucket-test-	test			
Name	Storage Class	Size	Last Modified	Object: CET-VI png
CFT-VI.png	Standard	134.4 KB	Wed May 04 17:45:49 GMT+530	esjeet er i inpilg
			(P)	Bucket: test-bucket-test-test: Name: CFT-VI.png Link:

3. Now everyone can able to download the object by click the link

Removing objects & & Bucket

1. Select the object && right click on the object && click on Delete



2. Select the bucket and click on actions and click on Delete Bucket

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Create Bucket Actions 🛩		None P	roperties	Transfers	C
All Buckets (3) Create Bucket					
Name Delete Bucket	Transfers				×
Cf-templates-1	Automatically clear misned transfers				
C test-bucket-tes Refresh	🥝 Done				
Paste Into	Delete: Deleting CFT-VI.png from test-bucket-test-test				
Manage CloudTrail Logs					
Properties					
	2				

3. It will ask the bucket name for confirmation, enter bucket name and click on delete

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Cr	eate Bucket Actions Y Buckets (3)			None	Properties	Transfe	rs (ª
Q.	Name bucket-my-bucket ct-templates-11zq5w7pllp3r-us-east-1		Transfers Automatically clear finished transfers				×
	cr-rempares-III2qbW/pipor-Us-east-I test-bucket-lest-test	Delete Deleting this bucket and its objects (including sure you want to delete test-bucket-test-test Type the name of the bucket to confirm deletio [test-bucket-test-test] [test-bucket-test-test] Amazon \$3 buckets are unique. If to another AWS user.	older versions if applicable) cannot be undone. Are you ? on: you delete this bucket, you may lose the bucket name Cancel Dele				
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4. Now the bucket completely removed from s3

Upload static site to s3 and access it as public

<u>http://docs.aws.amazon.com/gettingstarted/latest/swh/getting-started-hosting-your-website.html</u> <u>http://www.michaelgallego.fr/blog/2013/08/27/static-website-on-s3-cloudfront-and-route-53-the-right-way/</u> ***** Thank You *****