Assignment 6 – S3

Today's tasks:

- 1. Host a static website on S3
- 2. Set an event notification with SNS

Play with:

- S3 lifecycle policy
- Versioning

Submit items below in one pdf file:

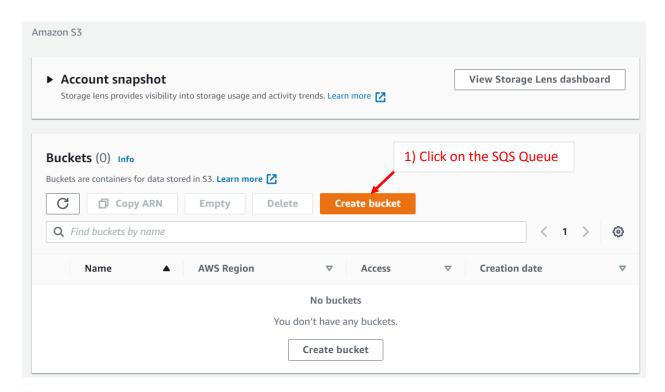
- 1. URL of the static app.
- 2. Screenshots of SNS emails.
 - a. Confirmation
 - b. Object put email.

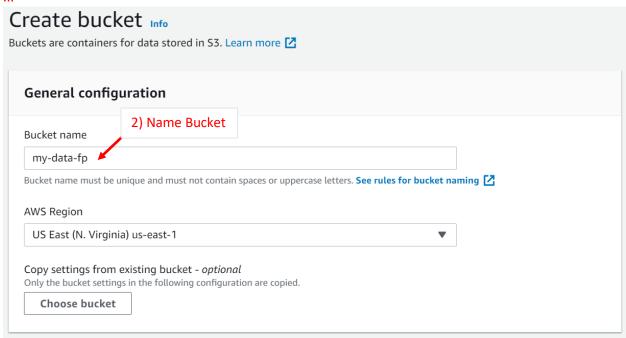
Instruction 1. Host a static website on S3

Go to the S3 Display



Create Bucket





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 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

		3) Uncheck Bl	ock Public Access				
		blic access etting on is the same	as turning on all four setti	ings below. Each o	of the following setting	gs are independent of one	e another
- 🗌	S3 will blo	ock public access perr xisting buckets and c	ekets and objects grannissions applied to newly bjects. This setting doesn	added buckets or	objects, and prevent t	he creation of new public	
- 🗆			kets and objects gran	•	ny access control li	sts (ACLs)	
- 🗆	S3 will blo	ock new bucket and a	kets and objects gran ccess point policies that g lic access to S3 resources.	rant public access	•		
- 🗆	Block pu	ıblic and cross-ac	count access to bucke	ets and objects	through <i>any</i> publi	c bucket or access po	int
	S3 will ign objects.	nore public and cross-	account access for bucket	ts or access points	with policies that gran	nt public access to bucket	s and



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.

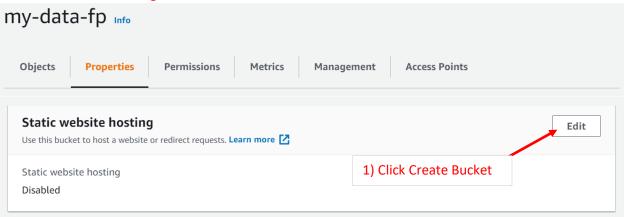
4) Check to Acknowledge

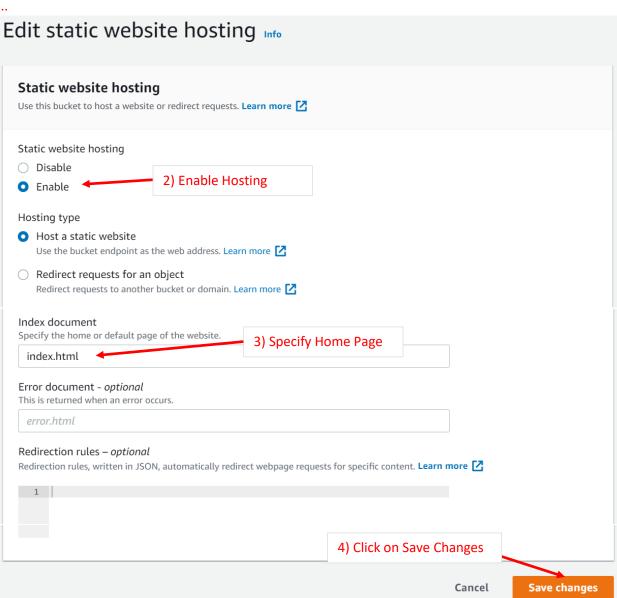
Tacknowledge that the current settings might result in this bucket and the objects within becoming public.

Bucket Versioning	
Versioning is a means of keeping multiple variants of an object in the same bucket. You can use every version of every object stored in your Amazon S3 bucket. With versioning, you can easily rand application failures. Learn more	
Bucket Versioning	
Disable	
○ Enable	
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	
Server-side encryption Disable	
• Disable	
DisableEnable	5) Click Create Bucket
DisableEnable	

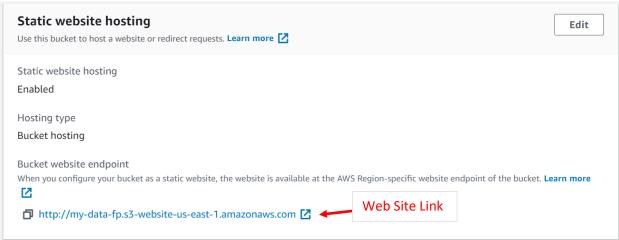
...

Enable Static Web Hosting for Bucket

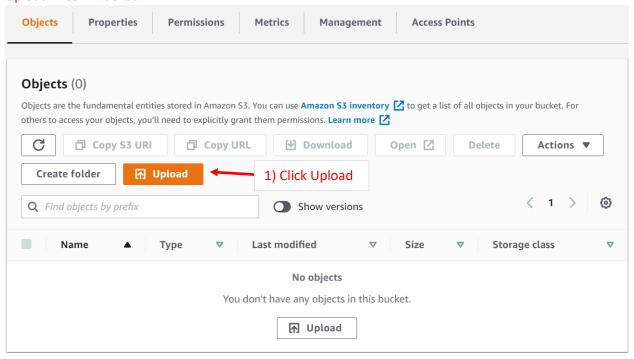




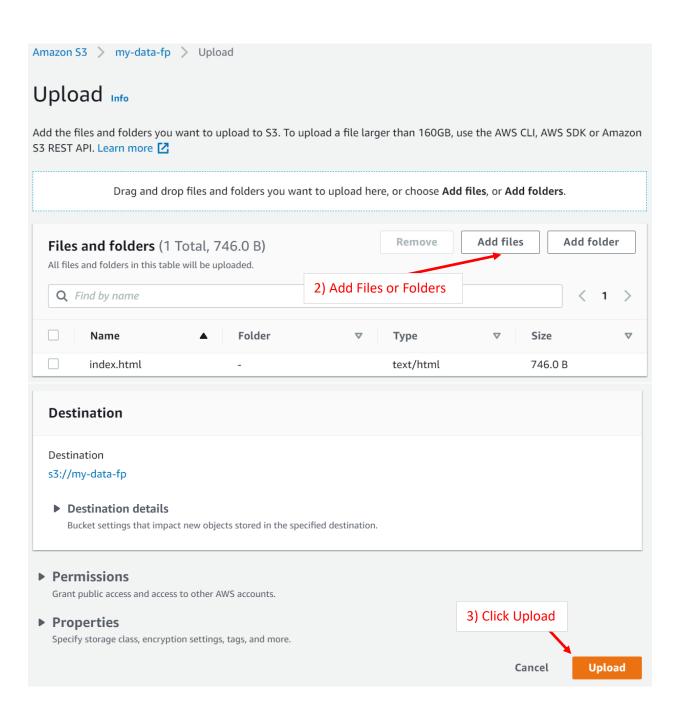
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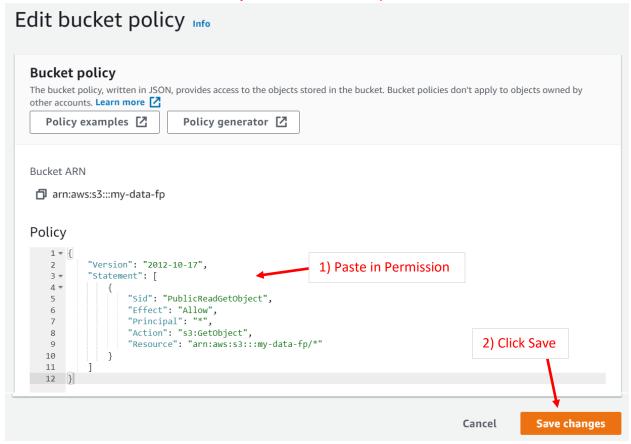
Upload Files in Bucket



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Add Public Permissions to S3 Bucket Objects - Edit Bucket Policy Under Permissions Tab



Permission for Public Access to S3 Bucket and All your Objects in the Bucket

Test Static Website



Hello From my S3 Static Web Site

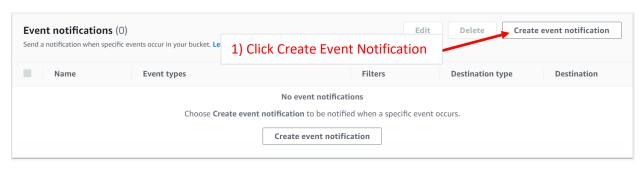
Instruction 2. Create an event notification when an object got created in the bucket

- 1. Create SNS. When creating the SNS, give custom resource-based policy to allow the S3 bucket.
- 2. Create event on S3 and select the SNS topic.

Create SNS Topic & Add Permission for S3 to Publish Message. Subscribe to the SNS Topic

```
"Sid": "__console_pub_0",
"Effect": "Allow",
"Principal": {
    "Service": "s3.amazonaws.com"
},
"Action": "SNS:Publish",
"Resource": "<Your SNS ARN>",
"Condition": {
    "StringEquals": {
        "aws:SourceAccount": "<Your AWS Account Number>"
    },
    "ArnLike": {
        "aws:SourceArn": "arn:aws:s3:*:*:<Your Bucket Name>"
    }
}
```

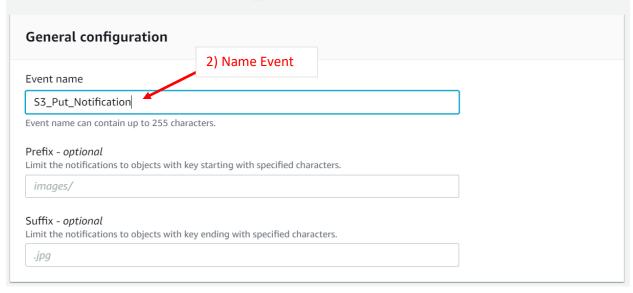
Create S3 Event Notification for Your Bucket Under Properties Tab Event Notification

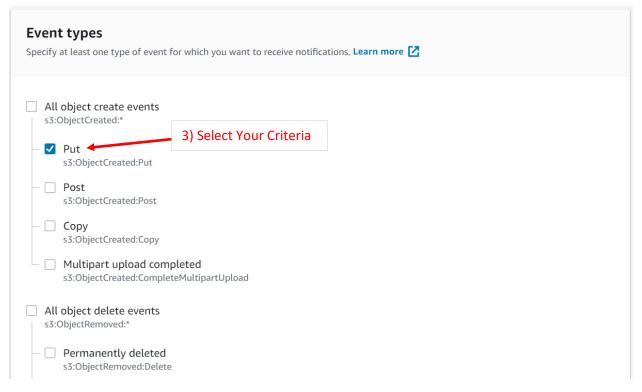


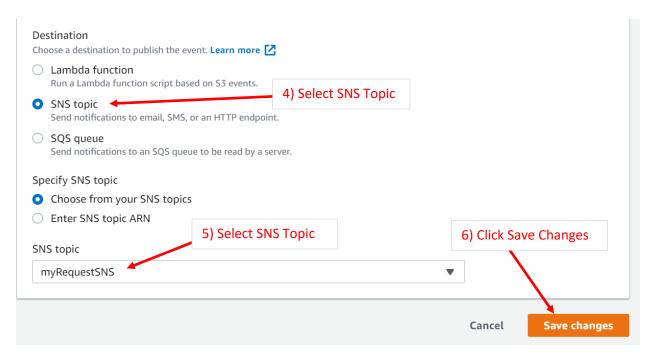
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Create event notification Info

The notification configuration identifies the events you want Amazon S3 to publish and the destinations where you want Amazon S3 to send the notifications. Learn more



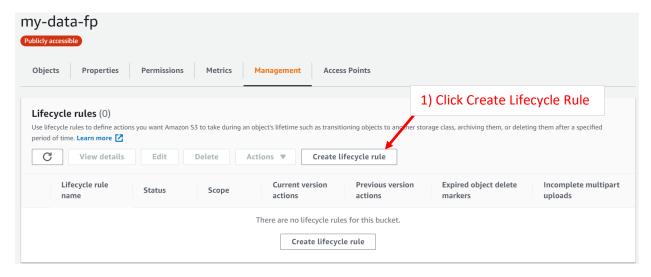




Test by Uploading a File to Your S3 Bucket

Instruction 3. Create a lifecycle policy

Create S3 Life Cycle Rule under Management Tab



2) Name Rule & Configure Settings based on What You Want to Accomplish...

