

Lab 5: Creating an S3 Bucket

Overview

In this lab, you will create an S3 bucket and upload a simple HTML website to the bucket. You will then set the bucket to host a static webpage and access the page.

Objective

- Create an S3 bucket.

Task 1. Create an S3 bucket

1. Choose the **Services** menu, locate the **Storage** services, and select **S3**.
2. Select **Create bucket** on the right side of the page.
3. For **Bucket name**, enter a unique Domain Name System (DNS)-compliant name for your new bucket.

Follow these naming guidelines:

- The name must be unique across all existing bucket names in Amazon S3.
 - The name must only contain lowercase characters.
 - The name must start with a letter or number.
 - The name must be between 3 and 63 characters long.
 - After you create the bucket, you cannot change the name, so choose wisely.
 - Choose a bucket name that reflects the objects in the bucket. This is because the bucket name is visible in the URL that points to the objects that you're going to put in your bucket.
4. For **Region**, choose the AWS Region where you want the bucket to reside.

Choose a Region close to you to minimize latency and costs, or to address regulatory requirements. Objects stored in a Region never leave that Region unless you explicitly transfer them to another Region.

5. Uncheck the **Block all public access** box because you want to be able to test if the website is working.

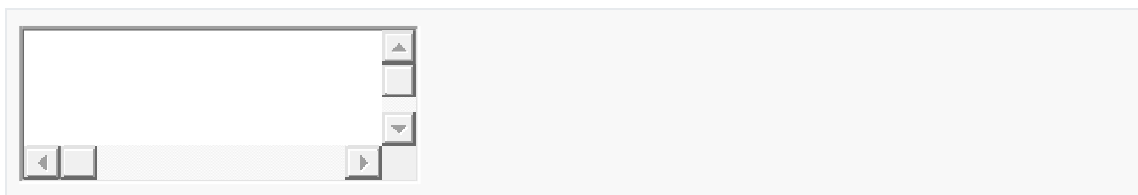
A warning message similar to **Turning off block all public access might result in this bucket and the object within becoming public** appears below the security setting you deselected.

6. Below the warning, check the box next to **I acknowledge that....**
7. Scroll to the bottom of the page and select **Create bucket**.

Your new bucket appears in the **Buckets** list.

Task 2. Add a bucket policy to make the content publicly available

8. Choose the link for your bucket's name, and then select the **Permissions** tab.
9. In the **Bucket policy** section, choose **Edit**.
10. To grant public read access for your website, copy the following bucket policy, and paste it in the policy editor.



```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "PublicReadGetObject",
      "Effect": "Allow",
      "Principal": "*",
      "Action": [
        "s3:GetObject"
      ],
      "Resource": [
        "arn:aws:s3:::example-bucket/*"
      ]
    }
  ]
}
```

11. In the policy, replace **example-bucket** with the name of your bucket.
12. Select **Save changes**.

Task 3. Upload an HTML document

In this task, you upload an HTML document to your new bucket.

13. Open the context menu (right-click) for the following link, and then choose **Save link as:** [index.html](#)
14. Save the index.html file to your local computer.
15. In the console, choose the **Objects** tab.
16. Upload the index.html file to your bucket.
 - Choose **Upload**.
 - Drag and drop the index.html file onto the upload page.
 - As an alternative, choose **Add files**, navigate to the file, and choose **Open**.
17. Expand the **Permissions** section.
18. Under **Predefined ACLs**, select **Grant public-read access**.

A warning message similar to **Granting public-read access is not recommend** appears below the setting you selected.

19. Below the warning, check the box next to **I understand....**
20. Expand the **Properties** section.

This section lists the storage classes that are available in Amazon S3. You will learn more about storage classes later, but take a minute to review them now.

Ensure that the **Standard** storage class is selected.

21. At the bottom of the page, choose **Upload**.
22. Choose **Close**.

The index.html file appears in the **Objects** list.

Task 4. Test your website

23. Select the **Properties** tab and scroll down to the **Static website hosting** section.
24. Choose **Edit**.
25. Select **Enable**.
26. In the **Index document** text box, enter `index.html`
27. Select **Save changes**.
28. Scroll down to the **Static website hosting** section again and copy the **Bucket website endpoint** URL to your clipboard.
29. Open a new tab in your web browser, paste the URL you just copied, and press **Enter**.

The **Hello World** webpage should display. You have successfully hosted a static website using an S3 bucket!

Lab complete

Congratulations! You have completed the lab.

30. Log out of the AWS Management Console.

- In the upper-right corner of the page, choose your username. Your username begins with **voclabs/user**.
- Choose **Sign Out**.

31. Choose **End Lab** at the top of this page, and then select **Yes** to confirm that you want to end the lab.