

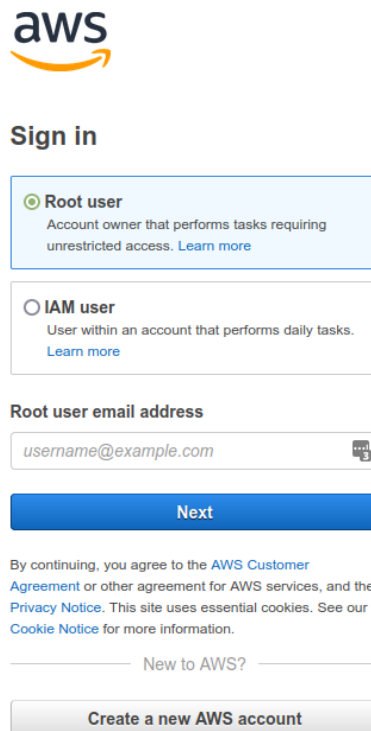
Performing a Cloud Backup with Restic

Setting up an Amazon S3 Bucket

This document will guide you through the setup of a free tier Amazon AWS account and then creating a user account with the permissions needed to save and restore Restic backups to an Amazon S3 Object Store ('an Amazon Bucket').

Regardless of whether you already have an Amazon Free Tier Account, please read the notes at the end of Appendix A.

- Open a Web browser and visit <https://console.aws.amazon.com>



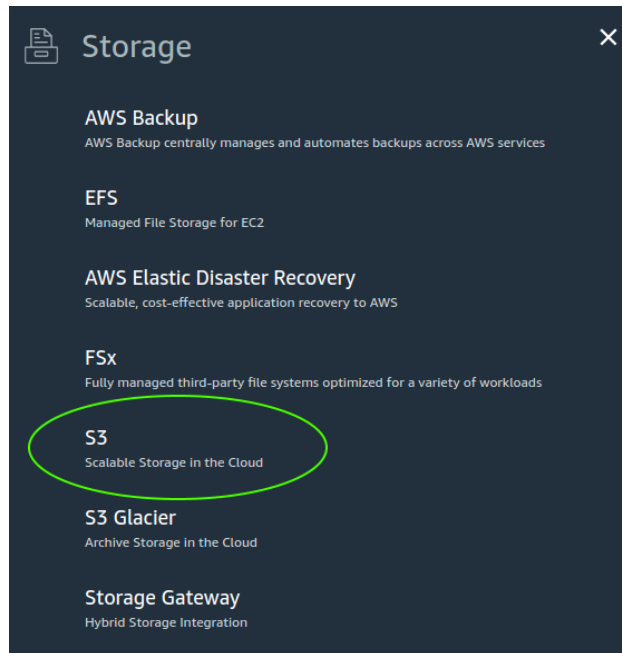
The screenshot shows the AWS Sign in page. At the top is the AWS logo. Below it is the 'Sign in' heading. There are two radio button options: 'Root user' (selected) and 'IAM user'. The 'Root user' option is described as 'Account owner that performs tasks requiring unrestricted access. Learn more'. The 'IAM user' option is described as 'User within an account that performs daily tasks. Learn more'. Below these options is a text input field for 'Root user email address' with the placeholder text 'username@example.com'. A blue 'Next' button is positioned below the email field. At the bottom of the page, there is a link for 'New to AWS?' and a button labeled 'Create a new AWS account'.

- If you already have an Amazon Free Tier account, proceed to sign in as the Root user.
- If you do NOT have an Amazon Free Tier account, select the **Create a new AWS account** button at the bottom of the page and see *Appendix A* of this document before continuing.

- Click **Go to AWS Management Console**, or visit: <https://console.aws.amazon.com/>
- Login as **Root User** with the credentials entered earlier (if not already logged in).
- Select the **Services** menu (top left).



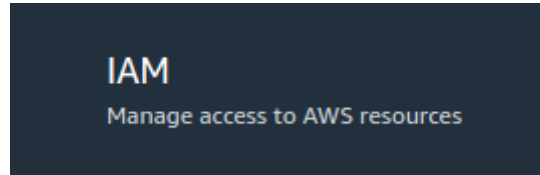
- Select **Storage** (bottom of the left column), then **S3**.



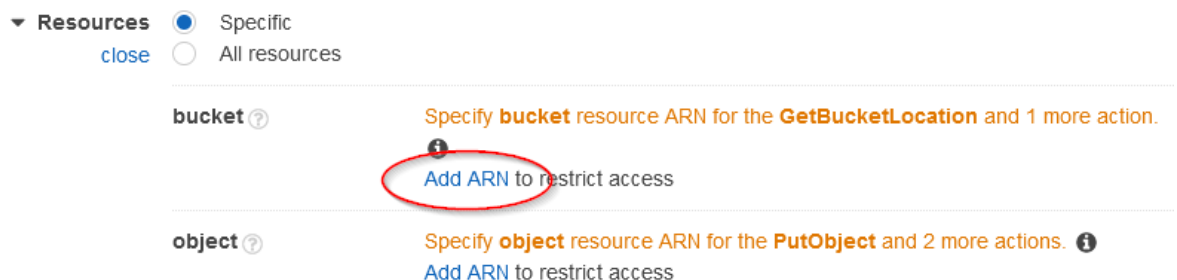
- Select **Create Bucket**.
- Give your bucket a name (This is case sensitive. Do not use spaces. Make a note of the name) and select a region to host it (Normally one on your continent).
- Click **Create bucket**.

A screenshot of a button labeled 'Create bucket'. The button is orange with white text and is set against a light gray background.

- Select the **Services** menu again.
- Select **Security, Identity and Compliance** from the left column, and then **IAM**.



- Select **Policies** from the left column menu.
- Click **Create policy**.
- Click **Choose a Service** and select **S3**.
- Expand the **Access Level List** section and tick: **ListBucket**.
- Expand the **Read** section then tick: **GetBucketLocation** and **GetObject**.
- Expand the **Write** section then tick: **DeleteObject** and **PutObject**.
- Expand the **Resources** section.
- Click **Add ARN** under bucket.



- Enter your bucket name and click **Add**.
- Tick **Any** for Object name.
- Click **Next: Tags** (bottom of the page).
- Click **Next: Review**.
- Give your policy a name, and a description (optional).
- Click **Create policy**.

- Click **Users** (left column menu).
- Click **Add users**.

- Give your user a name and select **Access key: Programmatic access**.

Add user



Set user details

You can add multiple users at once with the same access type and permissions. [Learn more](#)

User name*

[+ Add another user](#)

Select AWS access type

Select how these users will primarily access AWS. If you choose only programmatic access, it does NOT prevent users from accessing the console using an assumed role. Access keys and autogenerated passwords are provided in the last step. [Learn more](#)

- Select AWS credential type
- Access key - Programmatic access**
Enables an **access key ID** and **secret access key** for the AWS API, CLI, SDK, and other development tools.
 - Password - AWS Management Console access**
Enables a **password** that allows users to sign-in to the AWS Management Console.

- Click **Next: Permissions**.
 - Select **Attach existing policies directly**.
 - Locate the policy created earlier.
 - Tick the box to the left of the policy name.
 - Click **Next: Tags**.
 - Click **Next: Review**.
 - Click **Create User**.
- Make a note of your user's Access Key ID and Secret Access key, you will need them later.

✔ **Success**

You successfully created the users shown below. You can view and download user security credentials. You can also email users instructions for signing in to the AWS Management Console. This is the last time these credentials will be available to download. However, you can create new credentials at any time.

Users with AWS Management Console access can sign-in at: <https://694437461045.signin.aws.amazon.com/console>

[Download .csv](#)

User	Access key ID	Secret access key
✔ MyTestUser		***** Show

- Sign out of the AWS console (select your user name, top right)

That completes the Amazon AWS setup!

Appendix A:

Setting up an Amazon Free Tier account

Visit <https://console.aws.amazon.com> and select **Create a new AWS account**, or go directly to <https://portal.aws.amazon.com/billing/signup>.

NOTE: You will be asked to enter Credit or Debit card details during the setup. A test amount (usually \$1) will be taken on the card as a verification check. This amount is later refunded.

REMEMBER: Write down the credentials (username and password) you use for the account.

- Enter the required signup information and click **Continue**.
- Choose a **Personal** account and enter your contact details.
- Enter your billing information.
- Confirm your identity.
- Select the **Basic** support plan (free).
- Click to complete sign-up.

Notes

Amazon places some limits on the free usage - see the notes here:

https://aws.amazon.com/s3/pricing/?loc=ft#AWS_Free_Tier

<https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/billing-free-tier.html>

The relevant account limits are currently (Jan 2022): 5 GB of S3 standard storage and 12 months use on the free tier.

These are sufficient to complete the exercises in the 'Backups' course as they are written. You can monitor your account usage through your AWS account's **Billing Dashboard**.

Closing Your Amazon AWS Account

If you wish to close your account at any time, visit the following page and scroll to the bottom:

<https://console.aws.amazon.com/billing/home?#/account>

Do note that you must agree to the following: “I understand that after the Post-Closure Period I will not be able to create a new AWS account with the email address currently associated with this account.”

If you think you may wish to set up a new free tier account later, you should consider how to handle this point.