

# Uploading Data to Amazon Glacier

First you will need to sign up to Amazon AWS: <http://aws.amazon.com/>

Step through the sign-up process, which will require you to enter in your payment details, at present this is only via Credit Card. It will also require you to go through an Identity verification via phone. They will also try to sell you a Support Plan, just choose the Basic(Free) one.

Once you have completed the sign-up process you will be greeted by a Thank You screen, on this screen click on 'Launch the AWS Management Console'.



Amazon Web Services Sign Up

## Thank you for updating your Amazon Web Services Account!

We have emailed you an updated account confirmation and you may now begin using all AWS Infrastructure Services.

- > [Launch the AWS Management Console](#)
- > [View Developer Resources](#)

## Start Exploring Amazon Web Services

- [Products & Services](#)
- [Detailed Service Pricing](#)
- [Documentation](#)
- [FAQs](#)
- [Discussion Forums](#)

## Protect your account with AWS Multi-Factor Authentication (MFA)

AWS MFA is a feature that is available at no extra cost that greatly enhances your account's security. In addition to your username and password, AWS MFA requires a one-time code from your MFA device when signing in to AWS web properties.

[Activate MFA](#) > [Learn more](#)

## Sign Up For AWS Support

AWS Support is a one-on-one, fast response support channel to help you build and run applications on AWS. With pay-by-the-month pricing and an unlimited number of support cases, you are not constrained by long-term support contracts or limited support privileges.

[Sign Up Now](#) > [Learn more](#)

On this page, click on the 'Sign in to the AWS Console'

Sign in to the AWS Console

I intuitive web-based user interface. You can  
on the go.

Enter in the credentials from the signup process you just completed.

## Sign In or Create an AWS Account

**You may sign in using your existing Amazon.com account or you can create a new account by selecting "I am a new user."**

**My e-mail address is:**

klevster@hotmail.com

- I am a new user.**
- I am a returning user  
and my password is:**

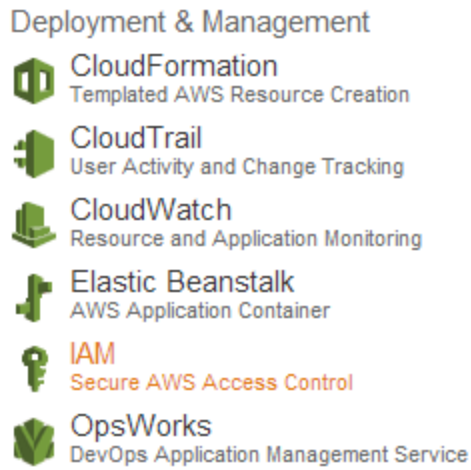
••••••••

Sign in using our secure server ▶

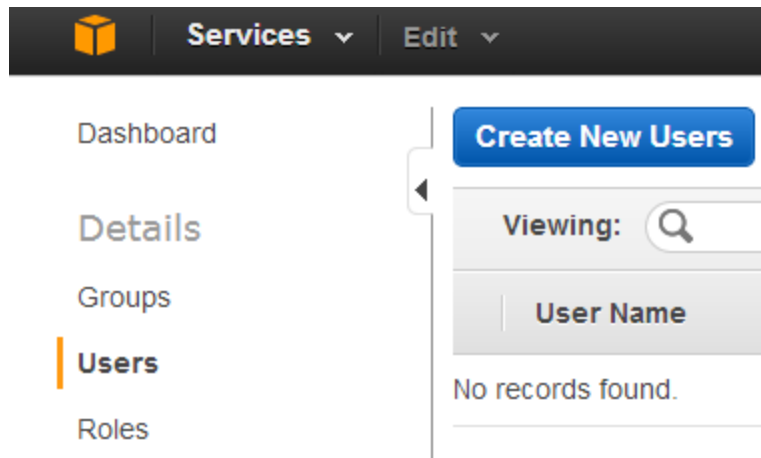
[Forgot your password?](#)

[Has your e-mail address changed?](#)

Once signed in, we first need to generate an Access ID key for use later with Cloudberry Explorer. First, click on IAM under 'Deployment & Management.'



Click on Users and 'Create New Users'



Enter in a relevant username and click Create.

**Create User** Cancel

**Enter User Names:**

1. mybackup

2.

3.

4.

5.

Maximum 64 characters each

**Generate an access key for each User**

Users need access keys to make secure REST or Query protocol requests to AWS service APIs.

*For Users who need access to the AWS Management Console, create a password in the Users panel after completing this wizard.*

**Create**

When you click Create a prompt will be shown saying the user has been successfully created, click on 'Show User Security Credentials.' This will display the Access Key ID and Secret Access Key for the newly created user, copy these details to a safe place, as they're only displayed once and would need to be regenerated if forgotten. You can also download the credentials as a CSV, if you so desire.

**Create User** Cancel

**Your 1 User(s) have been created successfully.**

**This is the last time these User security credentials will be available for download.**

You can manage and recreate these credentials any time.

▼ Hide User Security Credentials

**mybackup**

Access Key ID: AKIAI4P7Z1AWLWU33B11Q

Secret Access Key: APMF5k62...


**Download Credentials** **Close Window**

Now we'll lock down the permissions of the newly created user. Click Close Window. Then select the user you just created, goto the Permissions tab and click Attach User Policy.

Viewing:

User Name	Groups
<input checked="" type="checkbox"/> mybackup	0

**1 Users Selected**

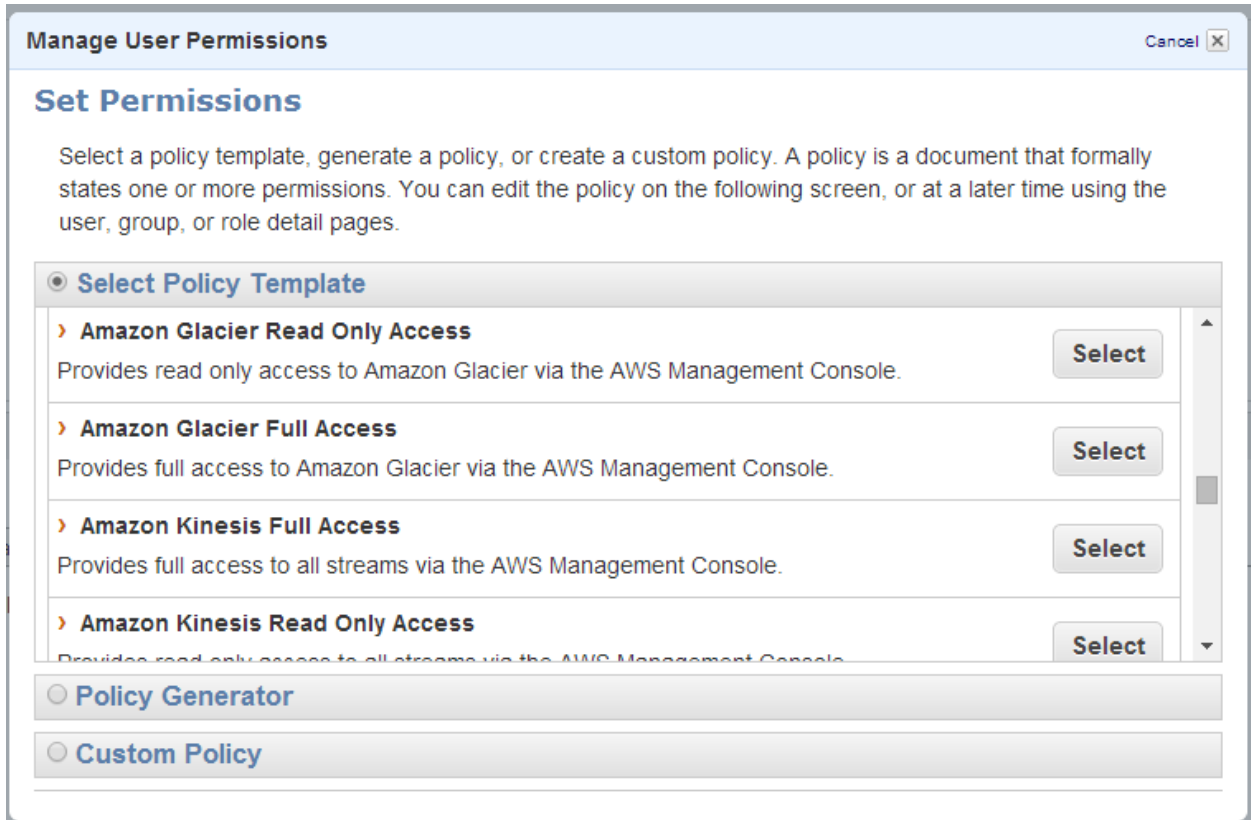
 **User:** mybackup

This view shows all policies that apply to this User. This includes policies th

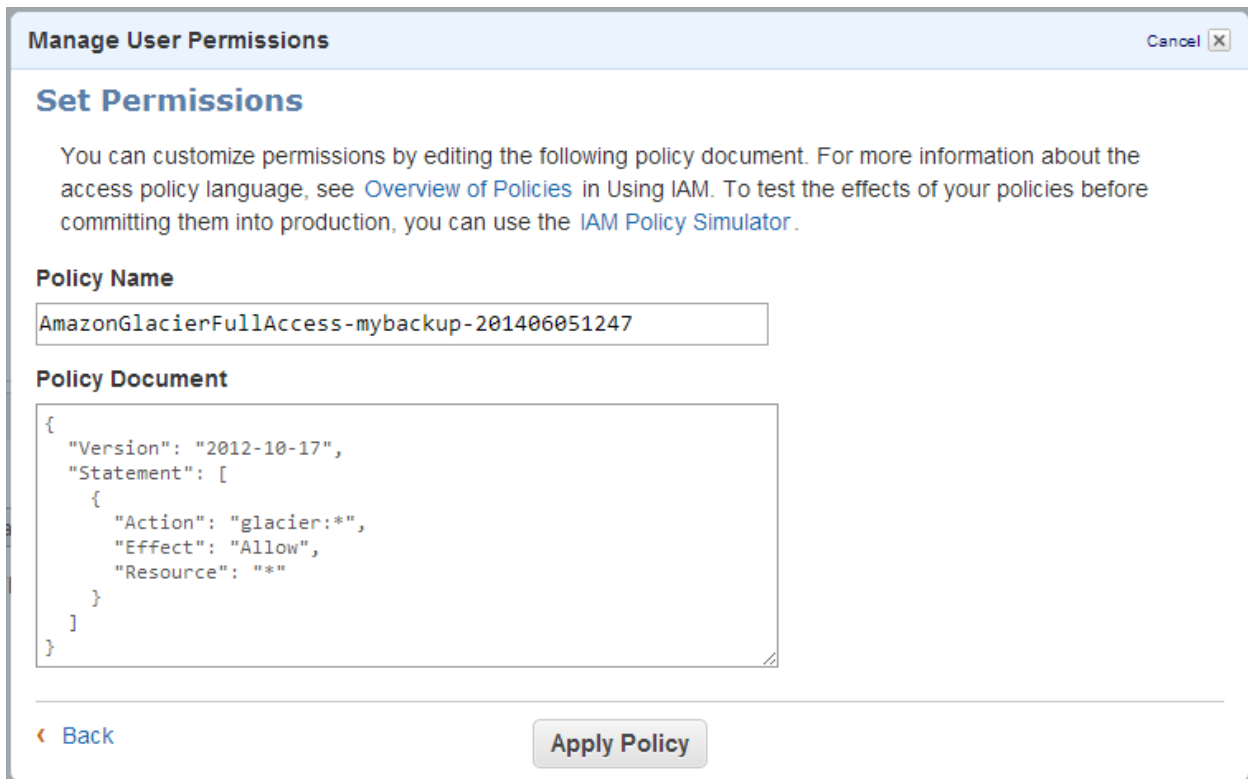
### User Policies

**There are no policies attached to this user.**

On the resultant window with 'Select Policy Template' selected, scroll down and press 'Select' next to 'Amazon Glacier Full Access.' This will give the user we just created access to Amazon Glacier.



When you click Select, a window will come up with a Policy Name and the generated Policy Document, just leave these and click Apply Policy.



The screenshot shows a dialog box titled "Manage User Permissions" with a "Cancel" button in the top right corner. The main heading is "Set Permissions". Below this, there is a paragraph of text: "You can customize permissions by editing the following policy document. For more information about the access policy language, see [Overview of Policies](#) in Using IAM. To test the effects of your policies before committing them into production, you can use the [IAM Policy Simulator](#)."

Under the heading "Policy Name", there is a text input field containing the value "AmazonGlacierFullAccess-mybackup-201406051247".

Under the heading "Policy Document", there is a text area containing the following JSON policy document:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Action": "glacier:*",
      "Effect": "Allow",
      "Resource": "*"
    }
  ]
}
```

At the bottom of the dialog, there is a "Back" button with a left-pointing arrow and an "Apply Policy" button.

You've now finished setting up the user to be used to access your Amazon AWS account from Cloudberry Explorer.

Download Cloudberry Explorer for Amazon S3 from:  
<http://www.cloudberrylab.com/download-thanks.aspx?prod=cbes3free>

Once downloaded, install it. Once installed, open up the program.



When Cloudberry Explorer loads, click on 'Register Later', the version we are using is Freeware, and does not require registration.

Register Product



CloudBerry  
**Explorer**  
*for Amazon S3*

powered by  
**amazon**  
web services™

**Your copy of CloudBerry Explorer is not registered. Would you like to register it now? Registration is FREE.**

Enter your username and email and then click Get registration key link

User Name:

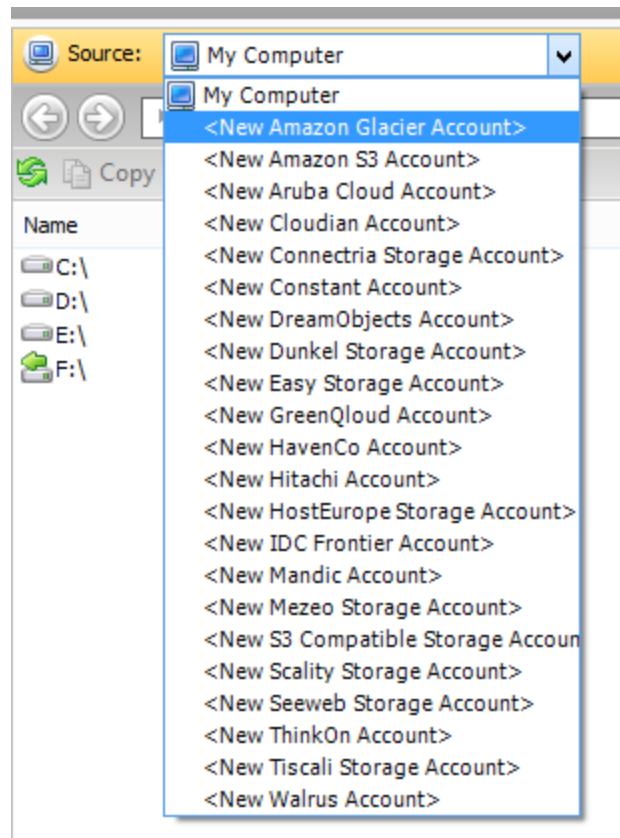
Email:

**Note:** The registration key will be sent to this email  
[Get registration key](#)

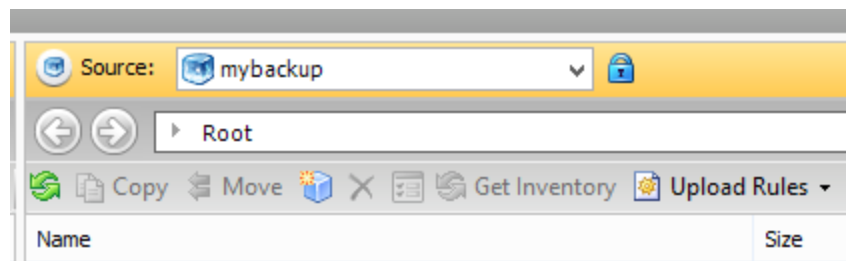
Enter registration key:



On the right hand side from the Source drop down select 'Amazon Glacier Account.'

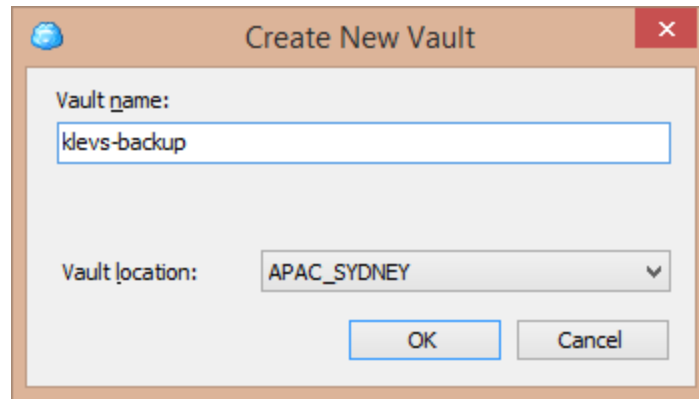


In the window that pops up we enter in the Access key and Secret key we got from creating the new user in Amazon AWS under IAM. Enter in these details with a relevant Display Name and click OK. This will validate your information, should it be successful it will load into a screen similar to this the below.

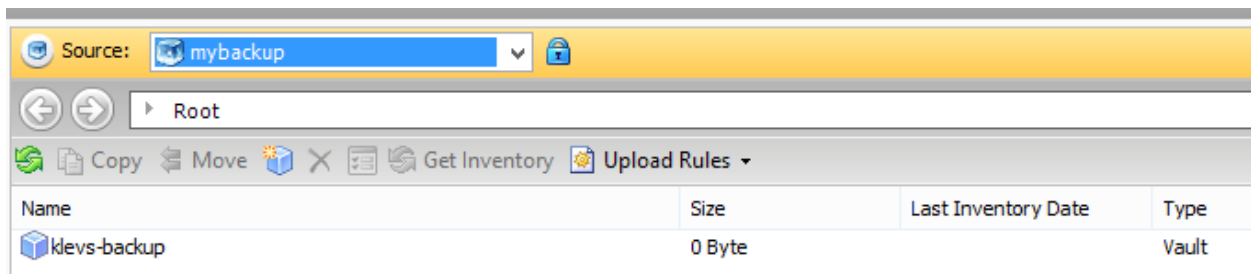


We can now create a Vault to store your backup data in, click the blue cube icon next to the Move icon.

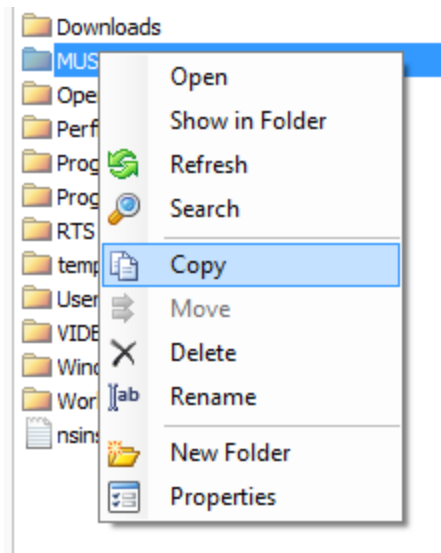
Enter in a Vault name, this needs to be unique and relevant to you. As for Vault location, choose a location that's closest to you, each location has different storage pricing, but most important the location you choose determines how fast you can upload\download. In the main choose APAC\_SYDNEY, as this will be closest to all us Australians.



Once the vault is created, it will appear in the right-hand window.



Now it's just a case of selecting things to upload to this Vault by simply browsing to what you'd like to backup, right-clicking and select Copy. This will upload the selected data to your online Amazon Glacier Vault.



It is important to remember that the Amazon Glacier is a means of archiving data, it is not an online drive as such. It is intended for data to be stored there and accessed rarely. As such once data has been uploaded to Amazon Glacier it can take 3-4 hours to retrieve and access again.

Costs involved with storing data in Amazon Glacier are currently as follows:

\$0.012 per Gb per month or \$10.20 per TB per month.

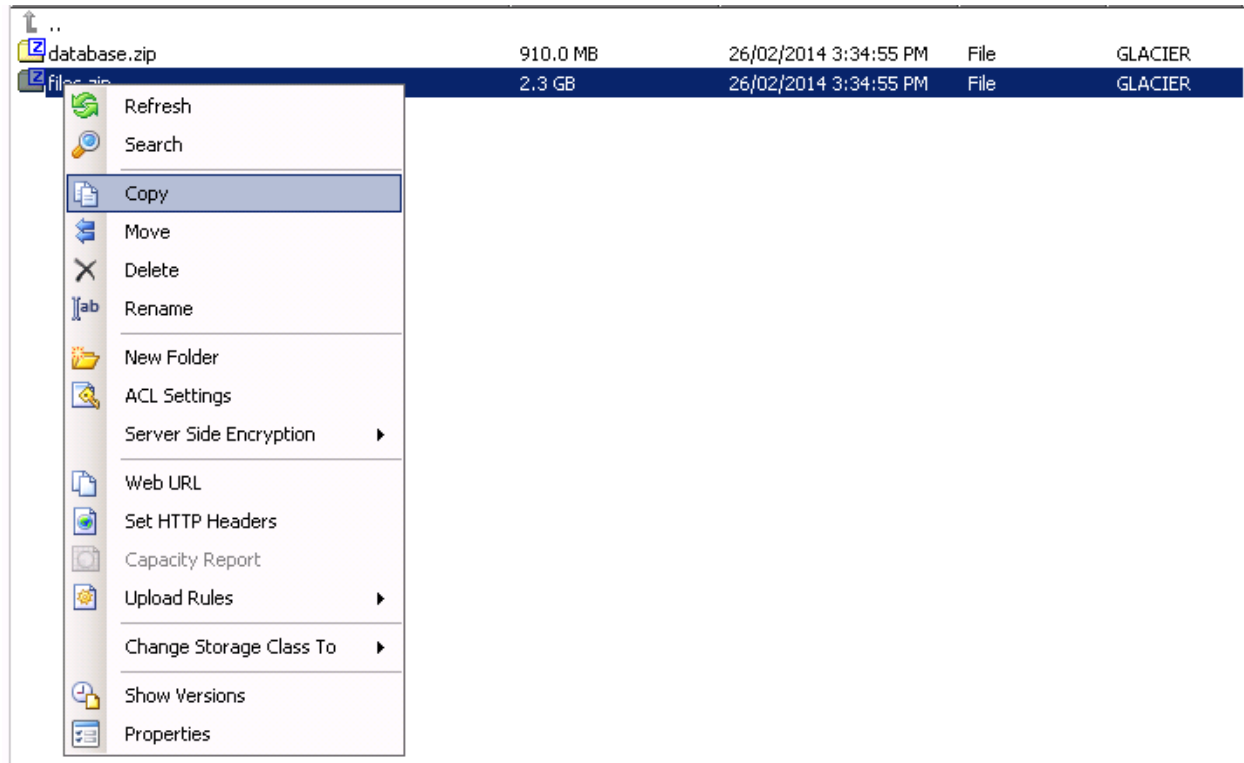
So you pay per data stored per month.

There are other programs that can automate backups and can do much more than what I've described here. Cloudberry Explorer is freeware and as such a lot of its more useful features are locked, available in the PRO version. But the freeware version uploads to Amazon Glacier, which is all I want it to do.

For a periodical backup of your important data, Cloudberry Explorer does the job.

## Accessing Data Stored in Amazon Glacier

To access data you have stored in an Amazon Glacier Vault, simply load up Cloudberry Explorer and browse your Glacier Vault for the required data. Right click and select Copy. This will commence the retrieval process within Amazon, you do not have to have Cloudberry open in this time, but I recommend you do. The retrieval process can take 3-4 hours to complete, in addition to any time taken to actually download the data.



You can also access your data from the AWS Management Console online, once you log into AWS, goto Glacier. Once in there, you can browse your Vault and request retrieval of whichever data you require.

#### Storage & Content Delivery



CloudFront

Global Content Delivery Network



Glacier

Archive Storage in the Cloud



S3

Scalable Storage in the Cloud



Storage Gateway

Integrates On-Premises IT Environments with Cloud Storage