

Prashant Lakhera [Follow](#)
Mar 28, 2019 · 3 min read · [Listen](#)

Amazon Glacier

Welcome to Day 46 of 100 Days of DevOps, Focus for today is Amazon Glacier

What is Amazon Glacier?

- *Data Archiving Solution*

business need or legal p

- 99,999999999(11 9's of durability)
- ### Key Terms
- **Archive:** Any object that you store in a Glacier or basic unit of storage in Glacier
 - **Vault:** Vault is the container for storing archive.
 - **Access Policy:** Determine who can and can't access the data stored in the Vault. It also controls what action user can and can't perform on the Vault. You can

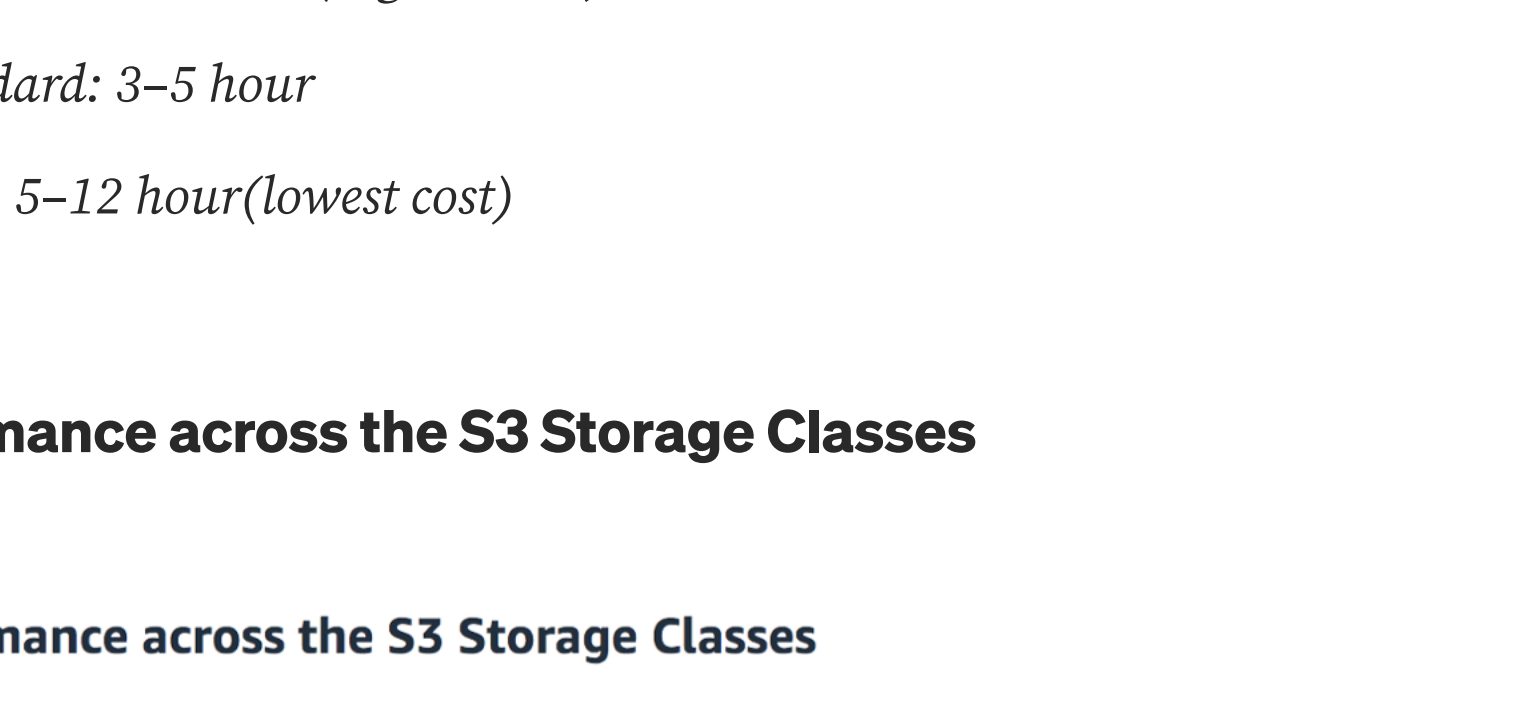
Only a few

- *Creating and Managing Vault Policies*
- For the rest of the operation, you need to rely on the below methods*
- 

RESTful web service

- 
- Amazon Glacier**

Data retrieval from Glacier



Designed for durability	99.999999999% (11 9's)	99.999999999% (11 9's)
-------------------------	------------------------	------------------------

- | availability | | |
|-------------------------|-------|-----|
| Availability SLA | 99.9% | 99% |
| Availability Zones | ≥3 | ≥3 |
| Minimum capacity charge | N/A | N/A |

Retrieval fee	N/A	N/A	per GB retrieved	per GB
---------------	-----	-----	------------------	--------

Storage type	Object	Object	Object
--------------	--------	--------	--------

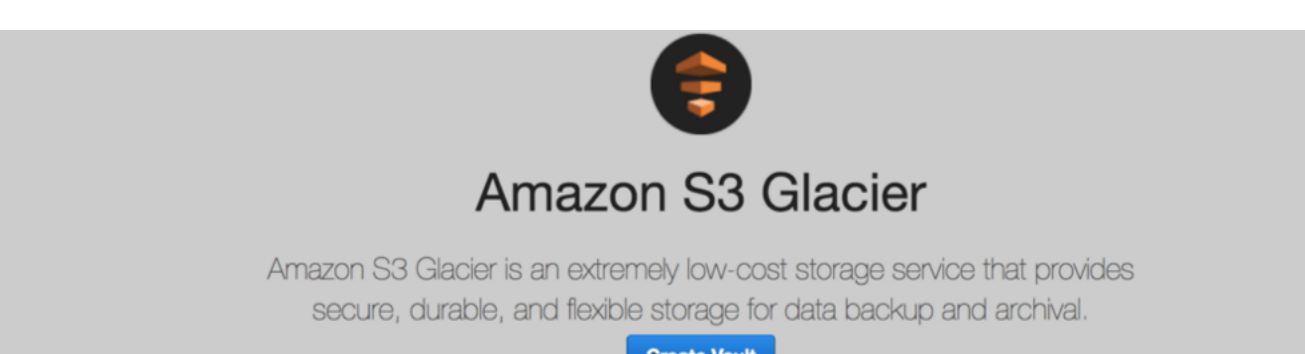
- Choose S3 Storage Class based on your requirement
- Quick Comparision between S3 and Glacier

	Amazon S3	Amazon Glacier
Data volume	No limit	No limit
Average latency	ms	min/hrs
Item size	5 TB max	40 TB max
Cost/GB per month	¢¢	¢
Billed requests	PUT, COPY, POST, LIST, and GET	UPLOAD and retrieval

- *Glacier access can be control using IAM*

- Glacier manages key for you

Go to the Glacier tab using AWS console <https://us-west-2.console.aws.amazon.com/glacier> → Create Vault



The screenshot shows the Amazon S3 Glacier console interface. At the top, there's a navigation bar with the AWS logo and 'S3 Glacier' text. Below the navigation bar, there's a header section with the Amazon S3 Glacier logo and the text 'Amazon S3 Glacier'. Underneath, a descriptive paragraph states: 'Amazon S3 Glacier is an extremely low-cost storage service that provides secure, durable, and flexible storage for data backup and archival.' At the bottom of the page, there is a blue button labeled 'Create Vault' and a link for 'Getting started guide'.

Create Vaults

- document, which you store in a vault.
- a few clicks in the AWS
- [Learn more](#)
- [Learn more](#)

Welcome to Amazon S3 Glacier

Data is stored in S3 Glacier in "archives." An archive can be any data such as a photo, video, or single file as an archive or aggregate multiple files into a TAR or ZIP file and upload as one archive.

A single archive can be as large as 40 terabytes. You can store an unlimited number of archives in S3 Glacier. Each archive is assigned a unique archive ID at the time of creation, and it

name. You can then create your own flow or click **Next Step** to set up your Vault's properties.

Region

US West (Oregon) ?

Vault Name*

glacier-test


Cancel

Next Step

- Choose all the default options and create Vault
- Most of the time, I see people use *LifeCycle Policies* to move the object from S3 to a glacier.

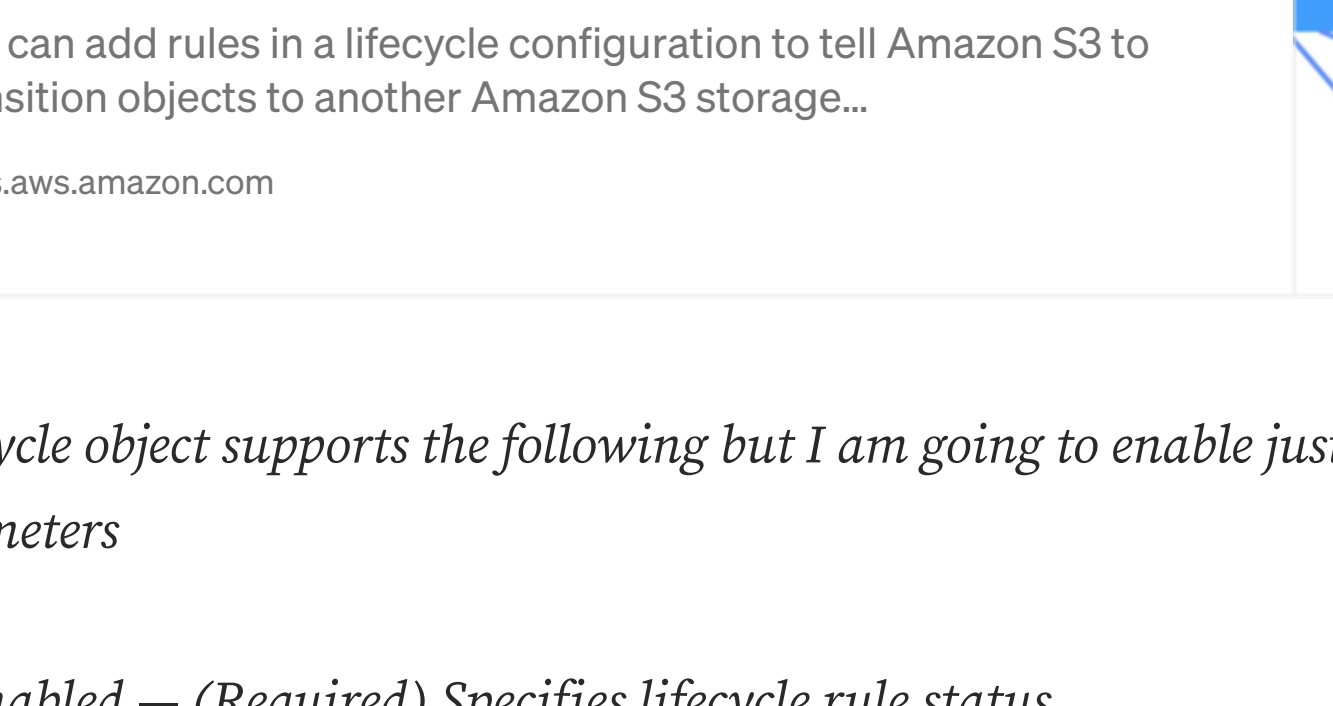
LifeCycle Management

Why do we need LifeCycle Management?

- In most of the cases, data which is generated by our application is relevant for users for the first 30 days and after that, we don't access that data as frequently.
- 

STANDARD

-
- Reference:



- *trans*:

```

1 provider aws {
2   region = "us-west-2"
3 }
4 resource "aws_s3_bucket" "bucket" {
5   bucket = "terraform-20181219040316452900000001"
6   acl = "private"
7   lifecycle_rule {
8     enabled = true
9     transition {
10      days = 30
11      storage_class = "STANDARD_IA"

```

```
13     transition {
14         days = 60
15         storage_class = "GLACIER"
16     }
17 }
```

- Here I am defining after 30 days move the objects to `STANDARD_IA` days to `GLACIER`.

every day for the next 100 days on DevOps work and post your progress using any of the below medium.

- Twitter: [@100daysofdevops](#) OR [@lakhhera2015](#)
- Facebook: <https://www.facebook.com/groups/795382630808645/>
- Medium: <https://medium.com/@devopslearning>
- Slack: <https://devops-myworld.slack.com/messages/CF41EFG49/>
- GitHub Link: <https://github.com/100daysofdevops>

Reference

- D-day is just one day away and finally, this is a continuation of the post(I posted a month earlier)
- medium.com


- Get an email whenever Prashant Lakhera publishes.
- Your email
- By signing up, you will create a Medium account if you don't already have one. Review our [Privacy Policy](#) for more information and our [Terms of Service](#) for more practices.

AWS Community Builder, Ex-Redhat, Author, Blogger, YouTubeR, RHCA, RHCCS, RHCE, Docker Certified, 4XAWS, CCNA, MCP, Certified Jenkins, Terraform Certified, 1XGCP

Mar 27, 2019

100 Days of DevOps — Day 45-Simple Backup Solution using S3, Glacier and VPC Endpoint

Welcome to Day 45 of 100 Days of DevOps, Focus for today is Simple



The image shows the top portion of a Medium article page. At the top left, it says 'AWS' followed by '2 min read'. In the center, there is a large, light gray button with the text 'Share your ideas with millions of readers.' To the right of this button is a dark gray button with the text 'Write on Medium'. Below these buttons, the date 'Mar 26, 2019' is displayed. The main title of the article, '100 Days of DevOps — Day 44-S3 Cross Region', is prominently displayed in a large, bold, black font. On the far right, a small thumbnail of the article's content is visible.

A screenshot of a blog post header. The title is "100 Days of DevOps — Day 43- Introduction to EC2" in a large, bold, black font. Above the title, there is a navigation bar with a search icon and a list of categories: "Home", "AWS", "Azure", "GCP", "Kubernetes", "Linux", "Networking", "Security", "Tools", "Tutorials", "Videos", "Books", "Podcasts", "Interviews", "Jobs", "Links", "About", "Contact". Below the title, there is a sub-header "Region Replication What is Cross-Region Replication Cross-region..." in a smaller font. To the right of the sub-header, there is a blue button with a white plus sign and a bookmark icon. Below the sub-header, there is a date "Mar 25, 2019" and a reading time "5 min read".

the AWS cloud. EC2 virtual server also referred to as an instance and E...

AWS 6 min read

Mar 24, 2019

100 Days of DevOps — Day 42-Audit your AWS Environment

AWS Environment. On Day 40 I discussed AWS config which is used to...

AWS 5 min read

Mar 23, 2019

100 Days of DevOps — Day 41-Real-Time Apache Log Analysis using Amazon Kinesis and Amazon

Welcome to Day 41 of 100 Days of DevOps, focus for today is Real-Time...

AWS 5 min read

+

Love podcasts or audiobooks? Learn on the go with our new app. [Try Knowable](#)

●● Medium

[About](#) [Help](#) [Terms](#) [Privacy](#)