



## Module 2



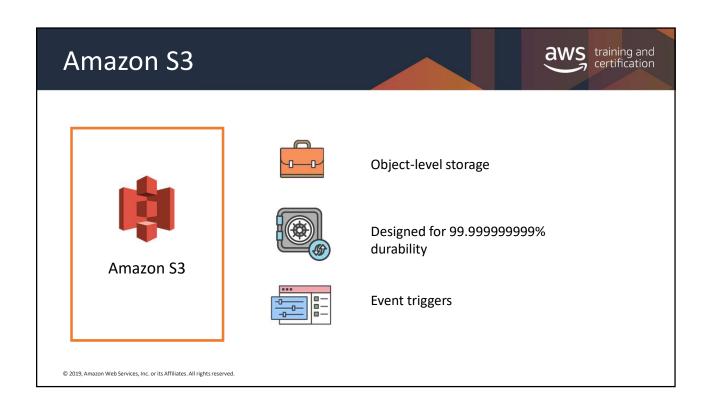
#### The architectural need

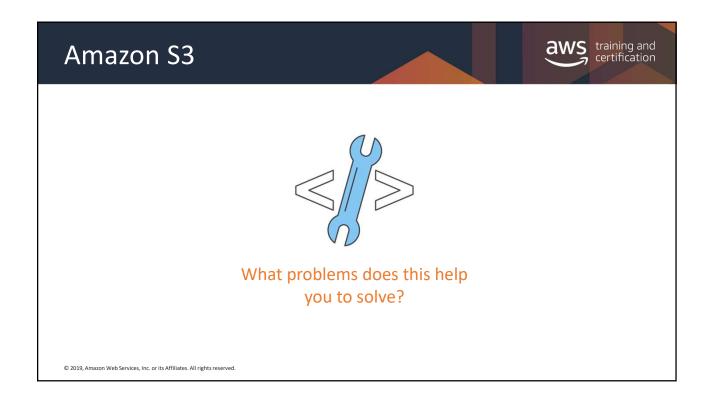
You have just started up and need a simple way to distribute, store, and analyze data reliably in the cloud.

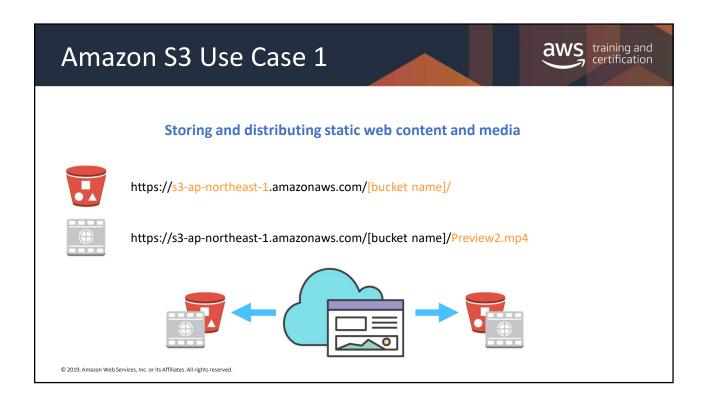
#### **Module Overview**

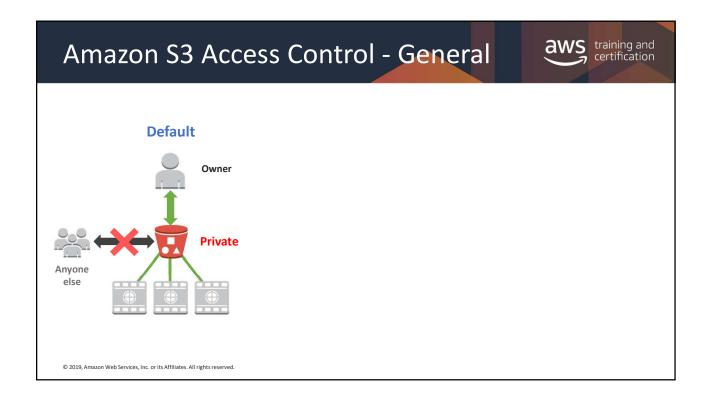
- Problems that Amazon Simple Storage Service (Amazon S3) can solve
- · Storing content efficiently
- Problems that Amazon Glacier can solve
- Choosing a region

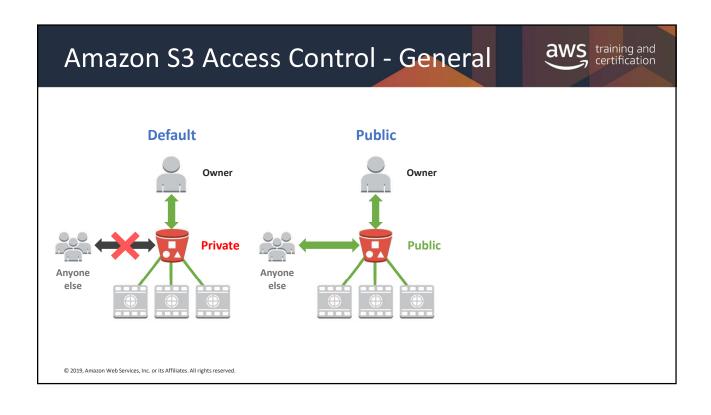


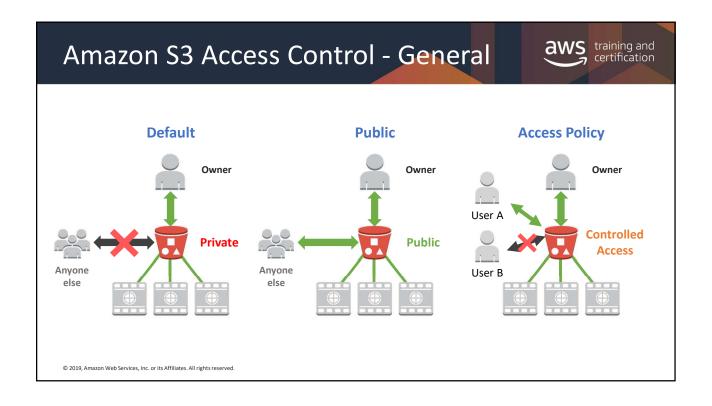


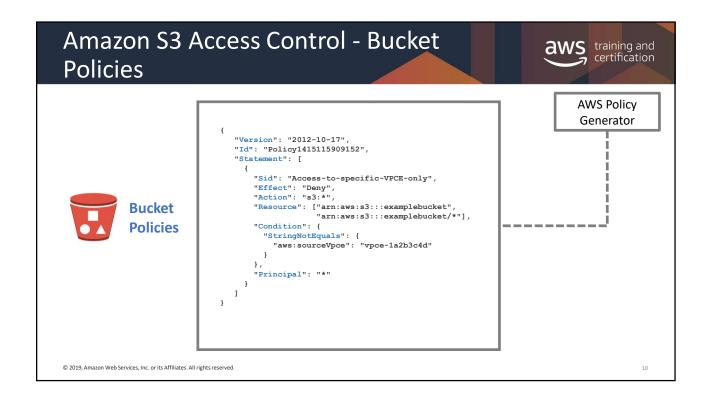


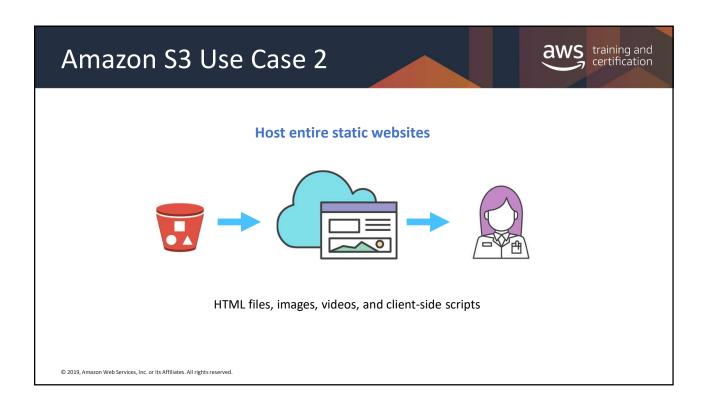


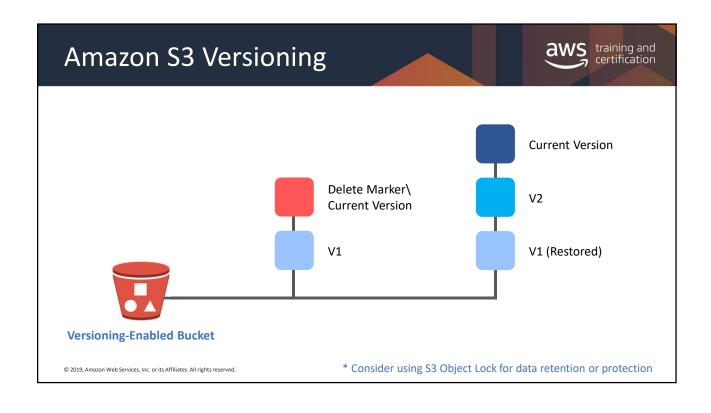


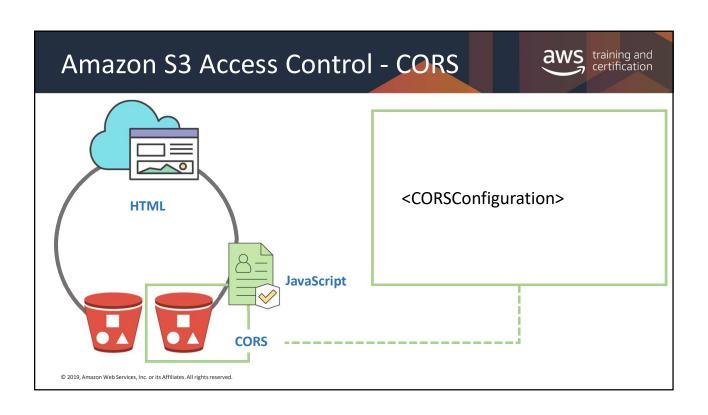


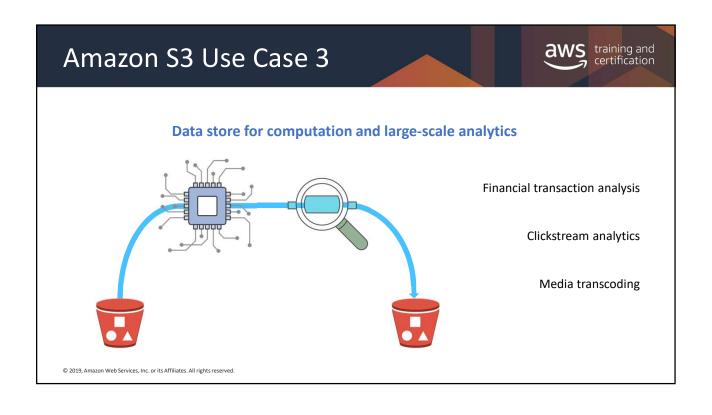


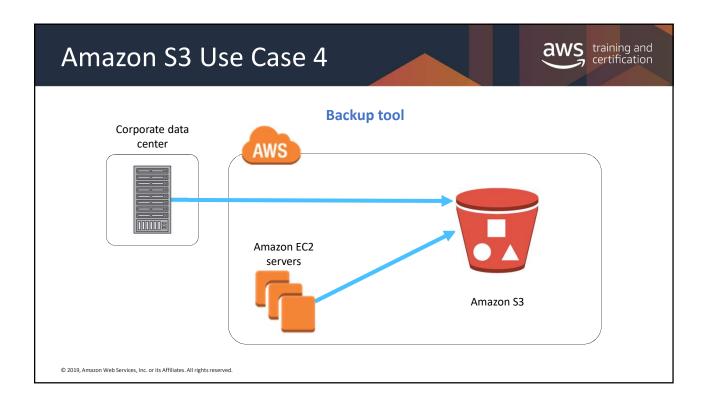


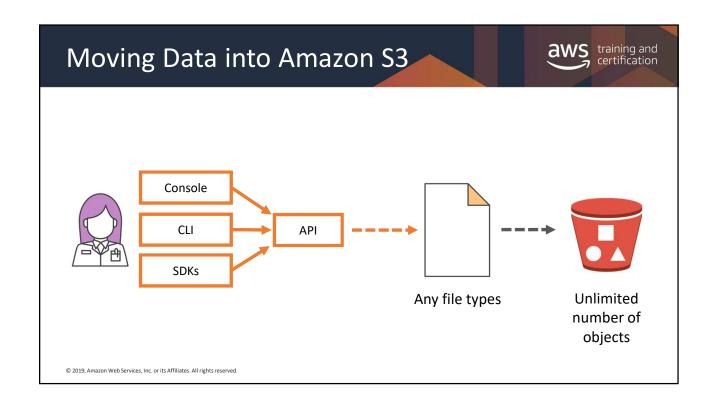


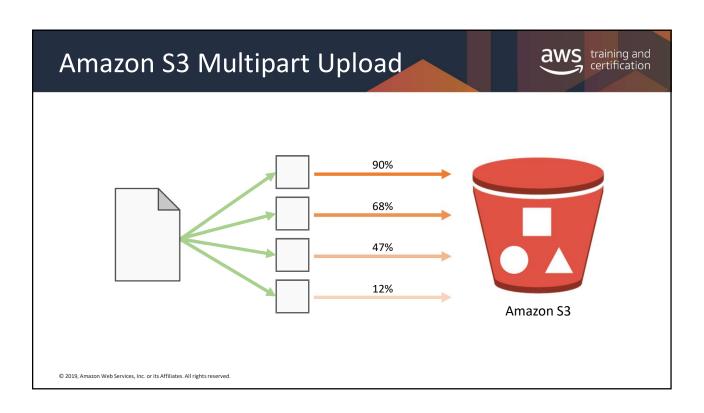


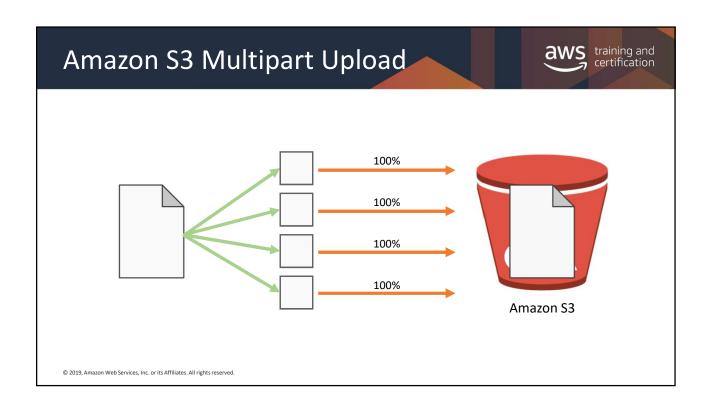


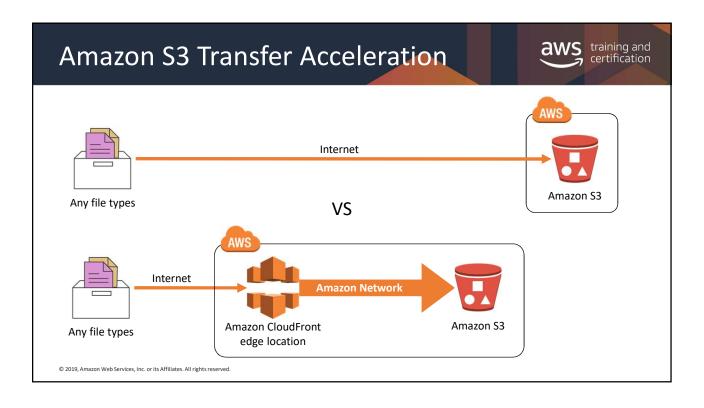












# Moving Data into Amazon S3



#### **AWS Snowball**

Petabyte-scale data transport



#### **AWS Snowmobile**

Exabyte-scale data transport



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## When Should You Use Amazon S3?



### Good use cases



When you need to write once, read many times

Spiky data access

Large number of users and diverse amounts of content

Growing data sets

## When Should You Use Amazon \$3?



#### Good use cases



When you need to write once, read many times

Spiky data access

Large number of users and diverse amounts of content

Growing data sets

#### Not ideal use cases

Block storage requirements
Frequently changing data
Long-term archival storage



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## Amazon S3 Costs





# Pay only for what you use, including:

GBs per month

Transfer OUT to other regions or the internet

PUT, COPY, POST, LIST, and GET requests

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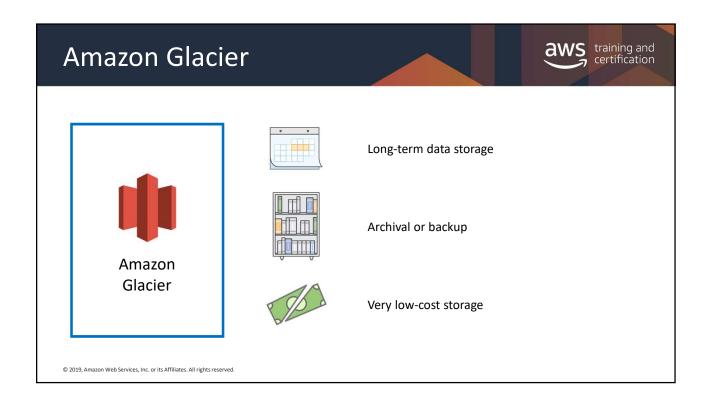
You do NOT have to pay for:

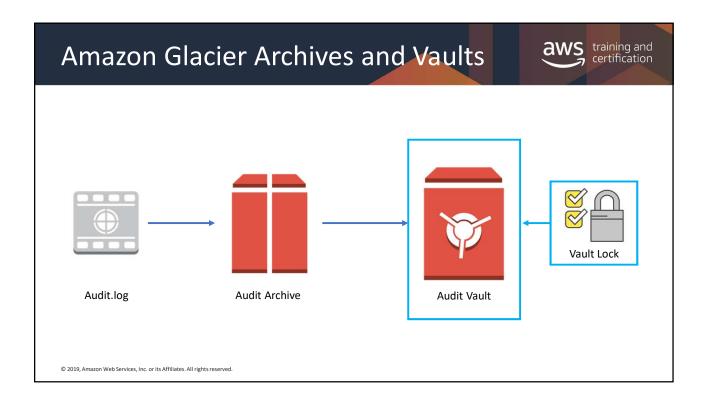
Transfer IN to Amazon S3

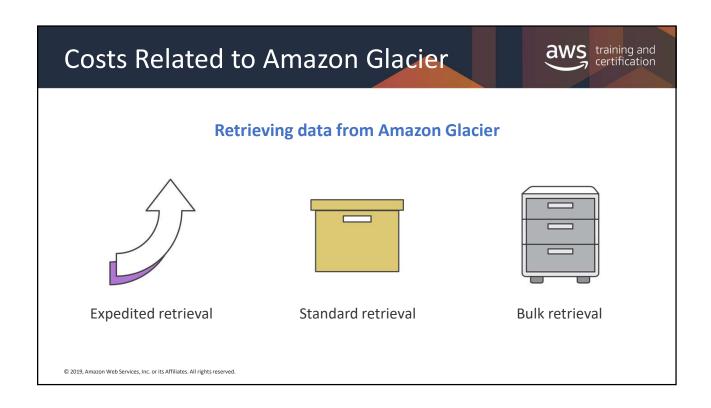


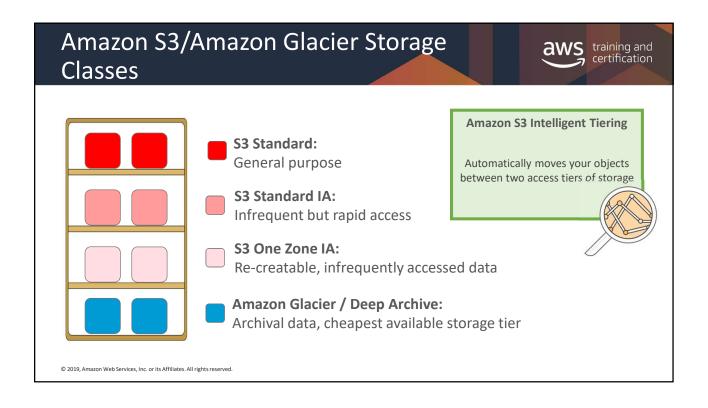
Transfer OUT to Amazon EC2 in the same region, or to CloudFront

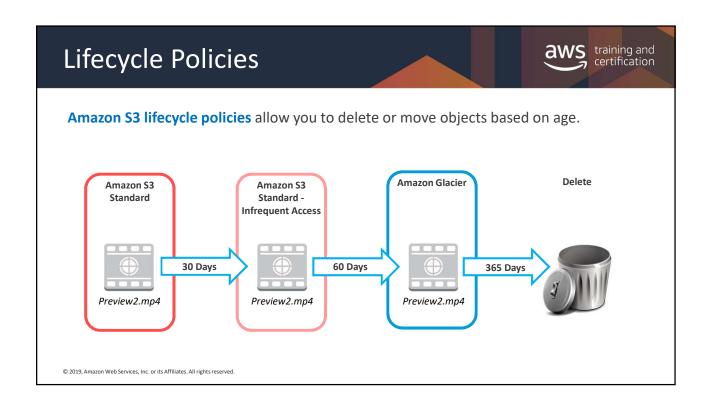














## Choosing a Region



## Data residency and regulatory compliance



Are there relevant region data privacy laws?



Can customer data be stored outside the country?



Can you meet your governance obligation?

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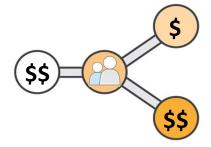
# **Choosing a Region**



## **Proximity of users to data**

Small differences in latency can impact customer experience

Choose the region closest to your users



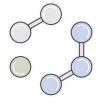
# Choosing a Region



## Service and feature availability



Some services not yet available in all regions



Can use some services cross-region, but at increased latency



Services expanded to new regions regularly

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# Choosing a region



## **Cost Effectiveness**

- · Costs vary by region
- Some services like Amazon S3 have costs for transferring data out
- Consider the cost-effectiveness of replicating the entire environment in another region





# "I want to create a highly available static website" Technologies used: • Amazon S3

## Lab M02-01: Hosting a Static Website



## You will:

- Create an S3 Bucket
- Deploy your website
- Make your site publicly available



Website123



index.html error404.html





**Duration: 20m** 

