



AWS Storage Overview

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Agenda

Why use AWS for storage?

AWS Storage Offerings

Key use cases for AWS storage

Challenges

Manage Data Growth

Performance And Availability

Time or Budget to build advance features

Storage Provisioning

You need the right storage for **any data**

#1

OBJECT



Amazon
S3

#1

BLOCK



Amazon
EBS

#1

FILE



Amazon
EFS



Amazon FSx for
Windows File Server



Amazon FSx
for Lustre

Amazon S3 Storage Classes



S3 Standard



S3 Intelligent-Tiering



S3 Standard-IA



S3 One Zone-IA



S3 Glacier



S3 Glacier
Deep Archive

Frequent

Access Frequency

Infrequent

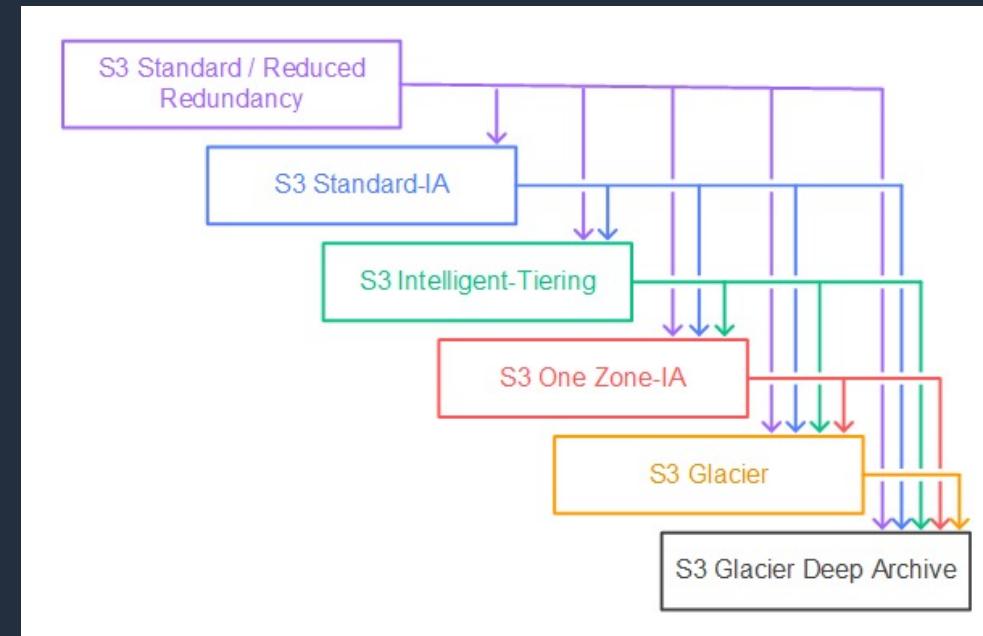
- | | | | | | |
|-----------------------|-------------------------------------------------------------|-------------------------|------------------------------------|-----------------------------|------------------------------|
| • Frequently accessed | • Changing access patterns | • Infrequently accessed | • Re-creatable, less accessed data | • Archive data | • Archive data |
| • Milliseconds access | • Milliseconds access | • Milliseconds access | • Milliseconds access | • Select minutes or hours | • Select 12 or 48 hours |
| • ≥ 3 AZ | • ≥ 3 AZ | • ≥ 3 AZ | • 1 AZ | • ≥ 3 AZ | • ≥ 3 AZ |
| • \$0.0210/GB | • \$0.0210 to \$0.0125/GB (\$0.004 to \$0.00099/GB Archive) | • \$0.0125/GB | • \$0.0100/GB | • \$0.0040/GB – (\$4.10/TB) | • \$0.00099/GB – (\$1.01/TB) |
| | • No retrieval fees | • Retrieval fee per GB | • Retrieval fee per GB | • Retrieval fee per GB | • Retrieval fee per GB |
| | • Monitoring fee per Obj. | • Min storage duration | • Min storage duration | • Min storage duration | • Min storage duration |
| | • Min storage duration | • Min object size | • Min object size | • Min object size | • Min object size |
| | • Min object size | | | | |

S3 Versioning

- Versioning in Amazon S3 is a means of keeping multiple variants of an object in the same bucket.
- You can use the S3 Versioning feature to preserve, retrieve, and restore every version of every object stored in your buckets.
- With versioning you can recover more easily from both unintended user actions and application failures.
- By default, S3 Versioning is disabled on buckets, and you must explicitly enable it.

S3 Lifecycle Management

- You can add rules in an S3 Lifecycle configuration to tell Amazon S3 to transition objects to another Amazon S3 Storage Class



You need the right tool to **move data** so you can innovate **anywhere**

On premises

File, block, tape



AWS Storage
Gateway

Online file and object transfer

Rapid transfers



AWS
DataSync

File exchanges



AWS Transfer
Family

Long-distance
uploads and downloads



S3 Transfer
Acceleration

Dedicated network



AWS
Direct Connect

Offline transfer

Bulk files, objects, HDFS, databases



AWS
Snowcone



AWS
Snowball



AWS
Snowmobile

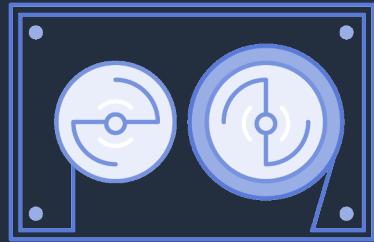
More Options for Data Transfer

What are customers building?



Backup & Restore

Non-disruptive
Easy place to start
Integrated with all major vendors



Archive & Compliance

Media workflows
Tape replacement
Public Sector, FinServ, Healthcare/Life Sciences



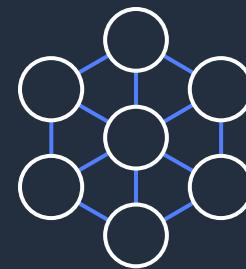
Home Directories

Simple to move
Less latency sensitive
Significant cost savings



Data Lakes

Variety of analytics tools
Foundation for AI/ML
Built for streaming data
Data visualization



Modern Apps

Persistent storage for Containers
Serverless



Business-Critical Applications

Integrated with major vendors
Fully managed infrastructure
Lift-and-shift migrations

Backup, Restore, and Archive



Backup, Restore, &
Archive Data

All backup & archive
Database Backup



AWS Storage
Gateway (optional)



Amazon S3



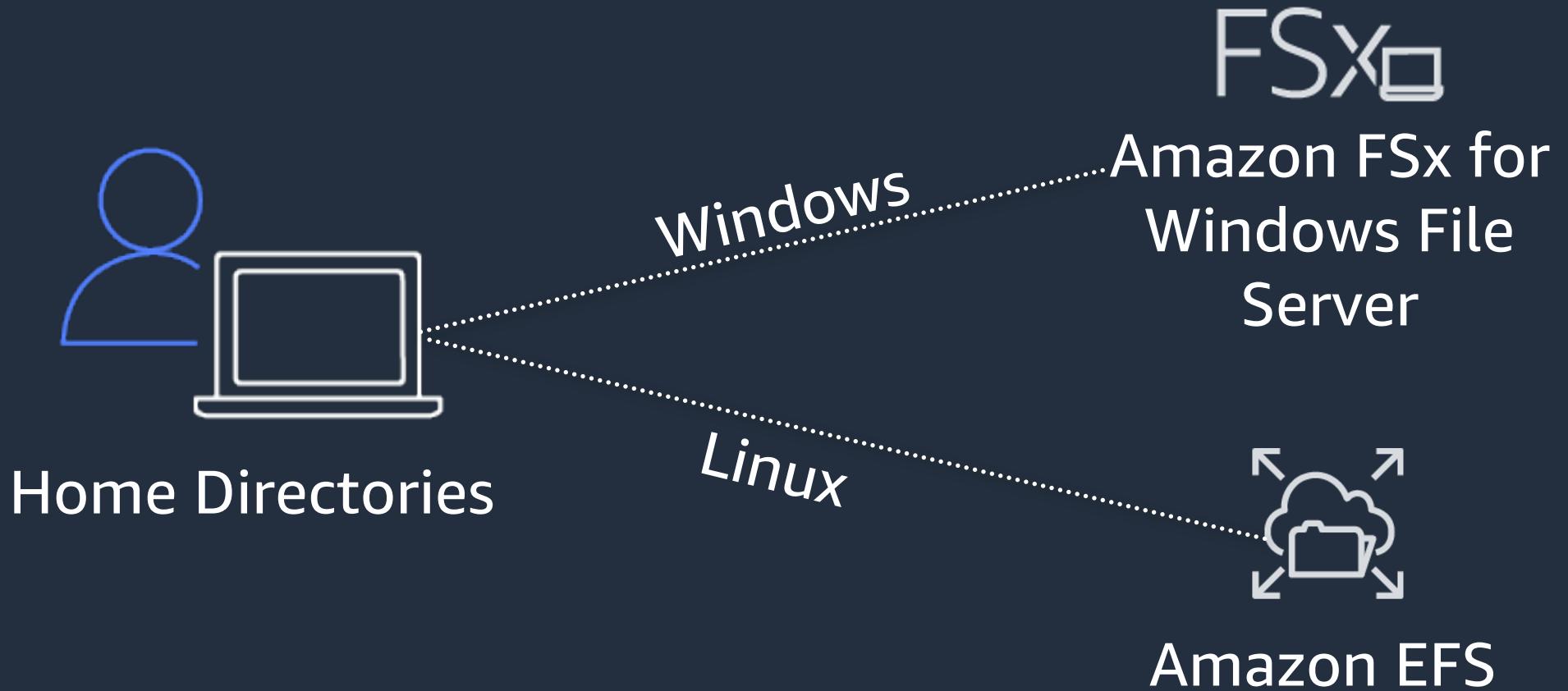
Amazon FSx for
Windows File Server



Amazon EFS



Home Directories



Data Lakes



Consolidate
all your
data



Process and
analyze

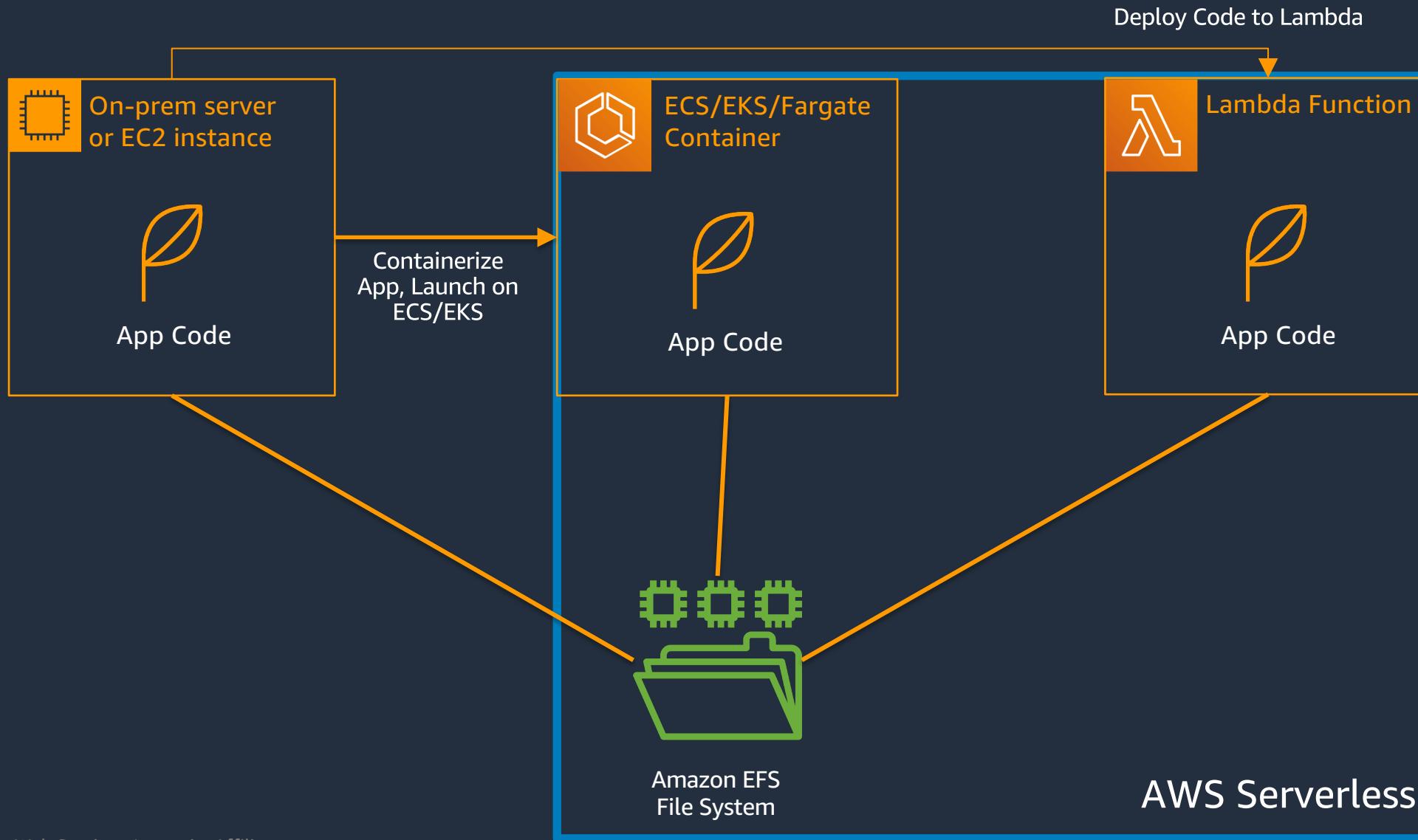


Simplified data
lake formation



Machine
Learning

Modern Applications



Business-Critical Applications



Block Storage	Linux/NFS File Storage	Windows File Storage
Amazon EBS	Amazon EFS	FSx

Customers innovate and optimize with AWS Storage



Thank you