Accelerating NAS Migration

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Why are customers moving to AWS?

Increase agility

Simplify and automate

Optimize costs

Most workloads today are file-based

Corporate IT applications

Database applications

User shares

Software build environments

High performance computing

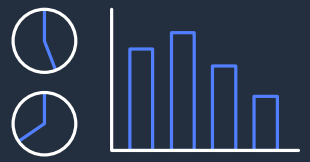
Machine learning

Media rendering and transcoding

Analytics

AWS offers the broadest file storage portfolio in the cloud

Like-for-like features and compatibility as on premises



The broadest range of data and cost management capabilities

How does file storage support customers' cloud journeys?

Migrate

Applications and storage

Extend

Disaster recovery and cloud bursting

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Customers use a variety of file systems on premises today

Each file system offers customers a unique combination of:


Feature sets


Performance characteristics

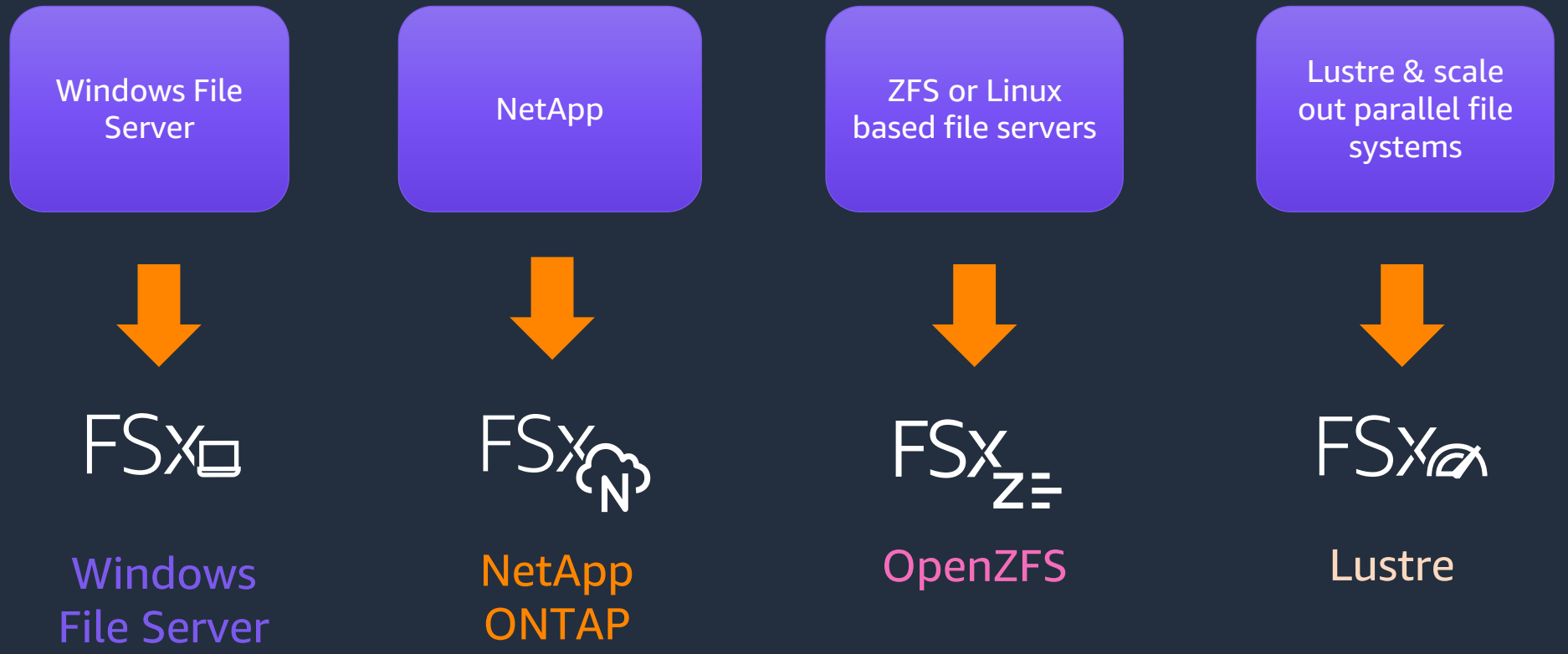

Data management capabilities


Cost profiles

Migrating to a different storage solution often requires **re-architecting, re-certifying, and re-training**

Amazon FSx: a like-for-like storage solution on AWS

Migrate to AWS without re-inventing how you manage your data

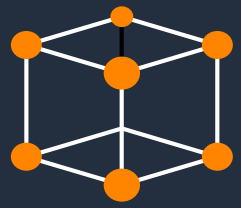


Cost optimization options

Optimize costs for your file workloads using rich set of capabilities

Single-AZ or Multi-AZ

Multiple storage type and performance options



Snapshot, clone, and replicate your data

Built-in compression / deduplication and elastic tiering

FSx for NetApp ONTAP: Intelligent Tiering

Automatic cost and performance optimization

$0.042/GB-month*
Effective Multi-AZ storage cost

Primary tier
SSD
Optimized for performance

~20%

Automated tiering policies
- Snapshot only
- None
- Auto
- All

Capacity pool tier
Elastic
Virtually unlimited capacity
(PB+ file systems)
Cost-optimized for less-accessed files

~80%

aws

*Pricing in the US East (N. Virginia) Region. Assumes 80% of the files are infrequently accessed and 65% dedupe/compression savings

Migrating to a like-for-like storage solution

- Moving 1.3 PB NetApp on-premises medical imaging repository to **FSx for ONTAP**, reducing overhead

- Moving patient administration applications to **FSx for Windows** for simplified management

Accelerating SAS Grid with FSx for Lustre

Large provider of mortgage financing in the United States

47 SAS Grid applications moved to AWS

50% reduction in data footprint

2x performance increase for SAS jobs

1.5 PB migrated in 6 weeks

Migrate

Applications and storage

Extend

Disaster recovery and cloud bursting

Extend your workloads from on premises to AWS

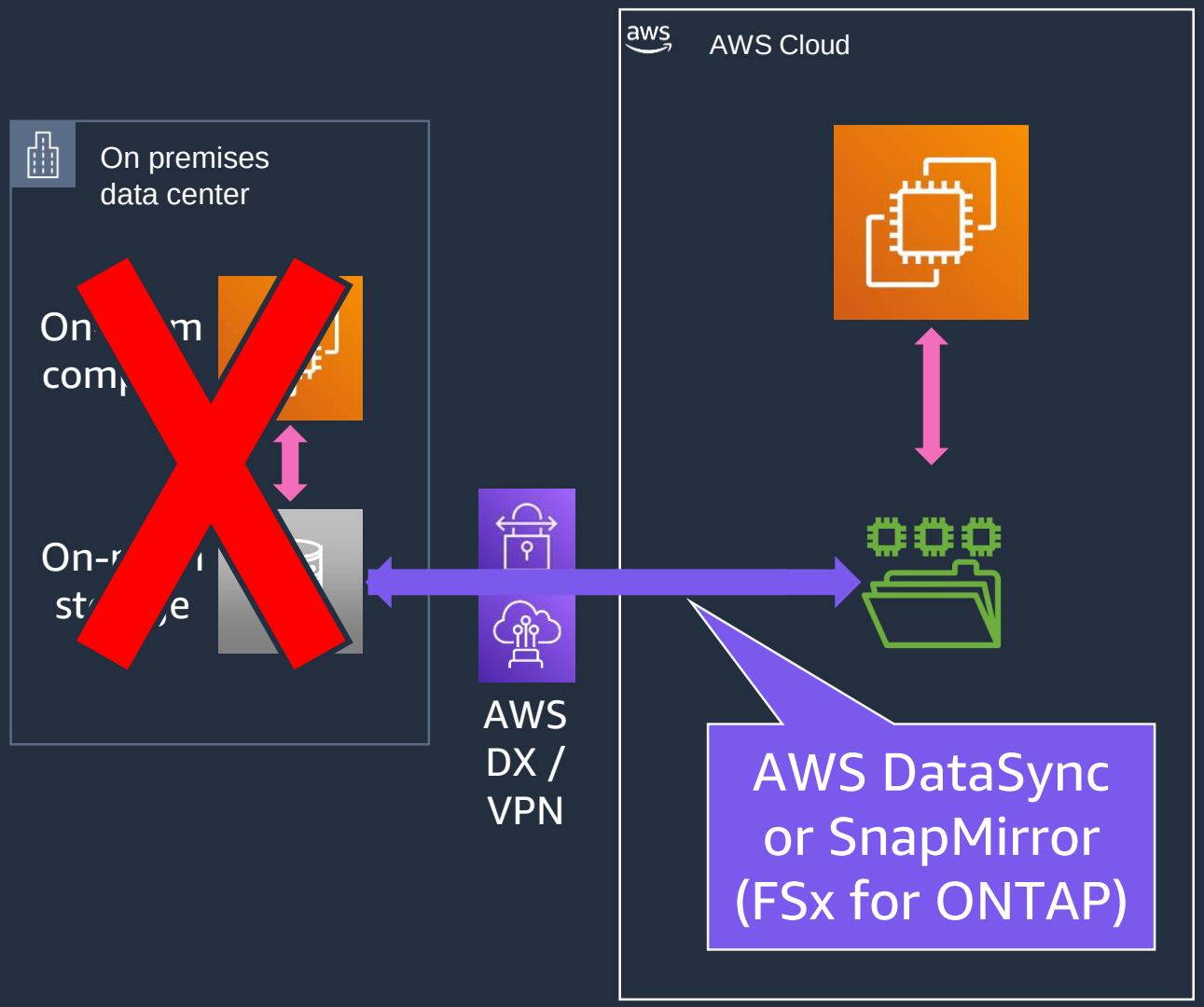
Disaster recovery to AWS

- No need to manage a secondary data center for DR
- Analyze your 2nd copy of data using AWS compute
- Only pay for the performance you need

Cloud burst to AWS

- Accelerate time-to-results with virtually unlimited compute
- Only pay for the compute you need

Disaster recovery to AWS



Initial setup

1. Create a DR site in AWS
2. Configure replication from on-premises

On-premises data center becomes unavailable

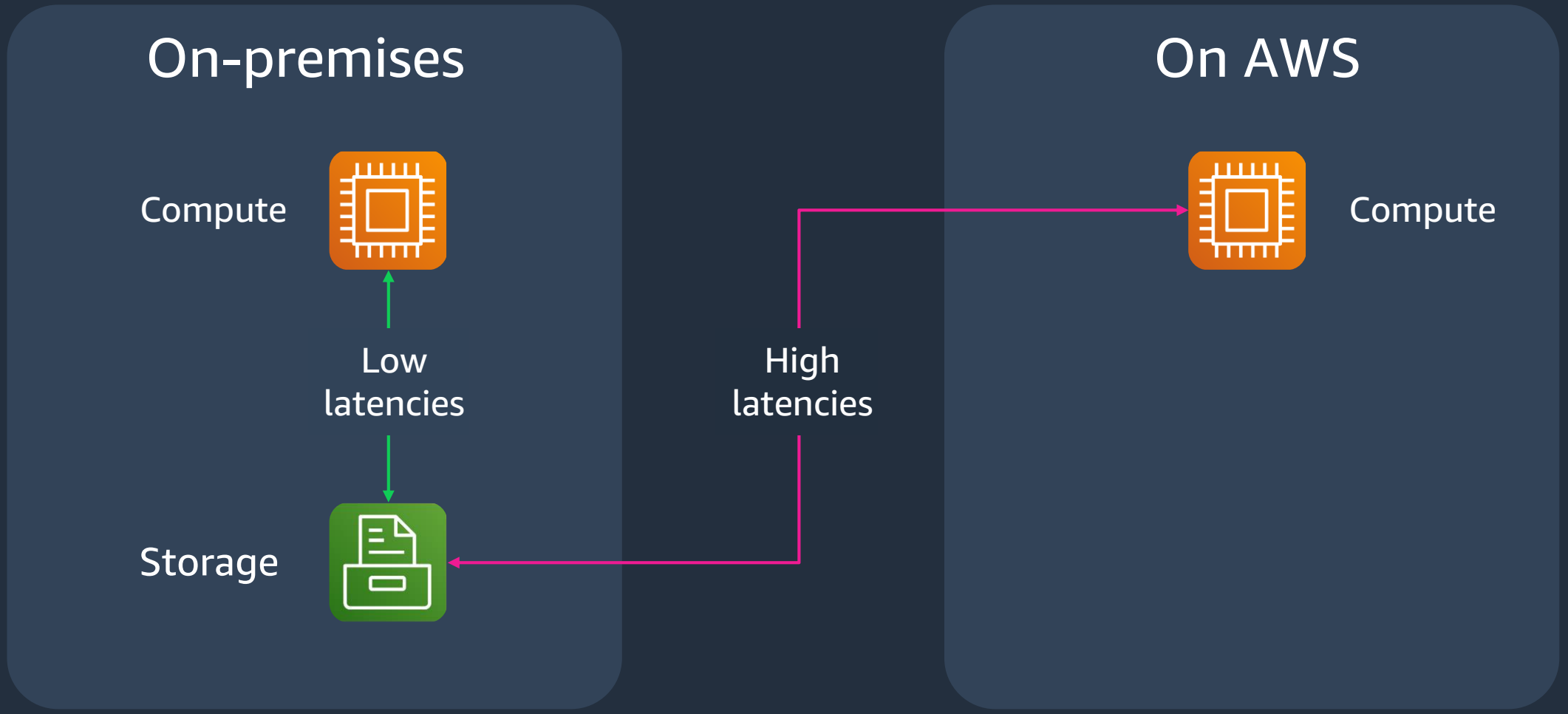
1. [Optional] Scale up AWS compute & storage
2. Run your workload in AWS

On-premises data center recovers

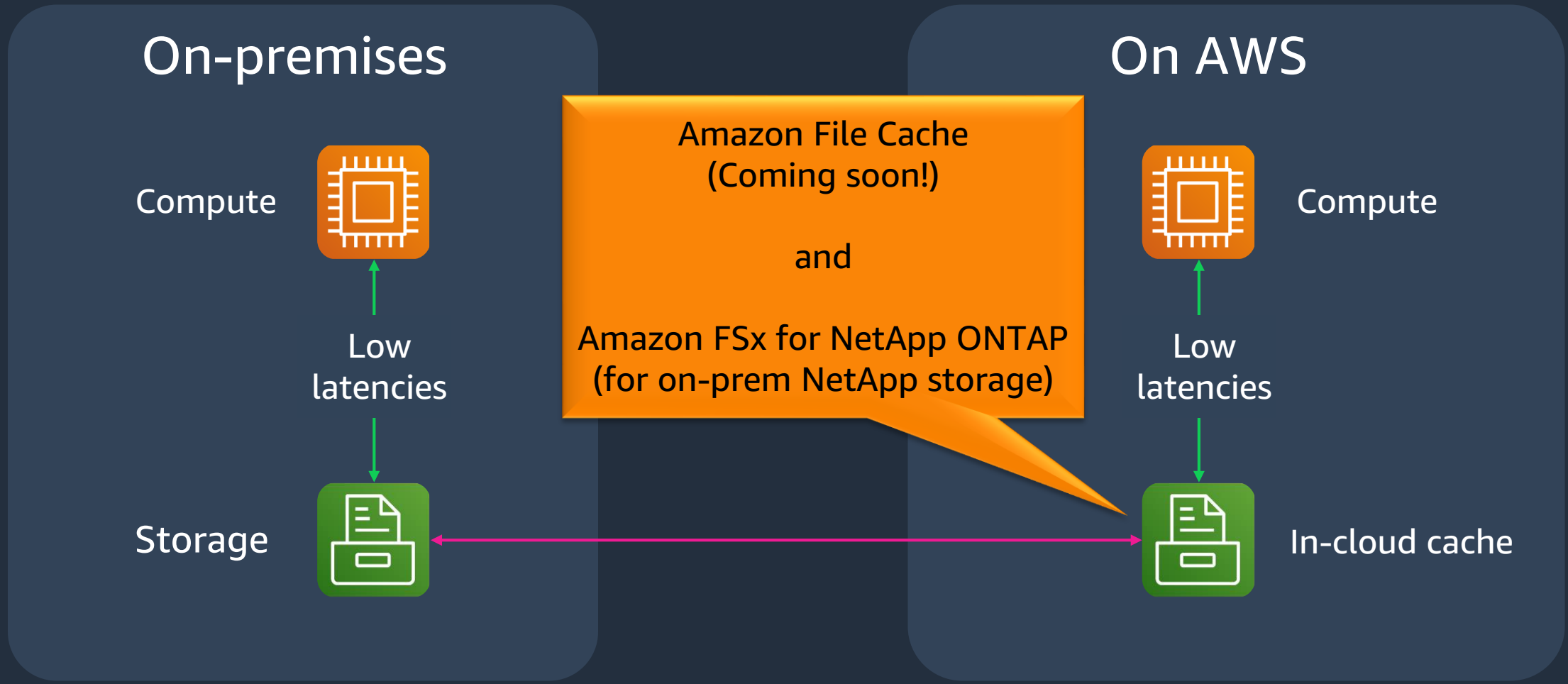
1. Replicate data back to on-premises
2. [Optional] Scale down AWS compute & storage

Cloud bursting to AWS

Use in-cloud compute to process data generated on premises



Accelerate cloud bursting with an in-cloud cache



Thank you!

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