



AWS
re:Invent

STG220

How to move 700 TB over the wire to AWS with AWS DataSync

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Agenda

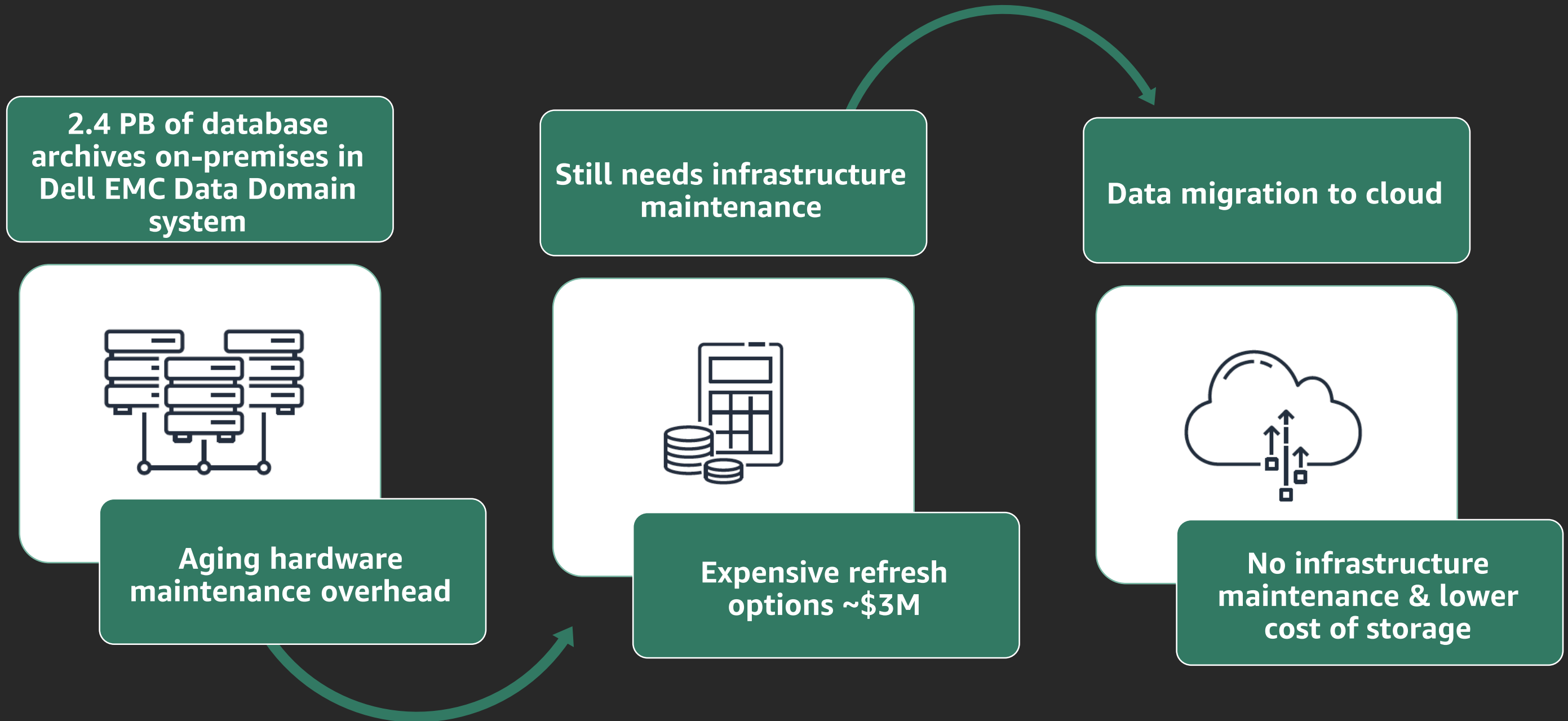
- ✓ Overview of the Autodesk data migration use case
- ✓ Migration challenges with large datasets
- ✓ AWS DataSync solution
- ✓ Lessons learned



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Use case



Migration challenges



Lift-and-Shift 2.4PB
Data set reduction to 700TB

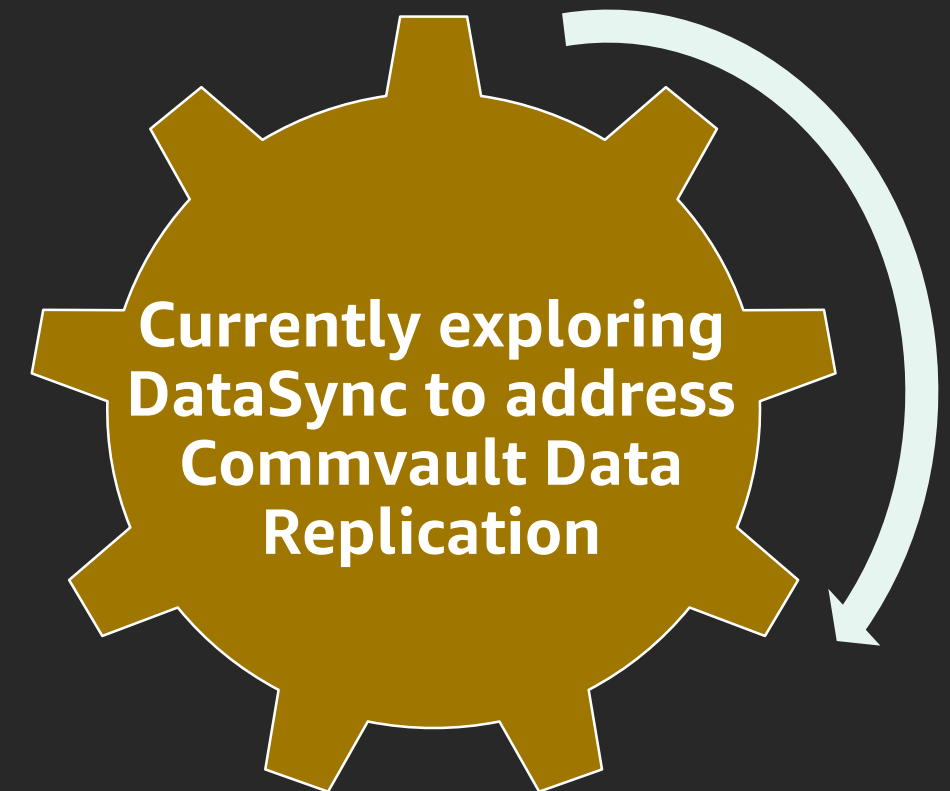
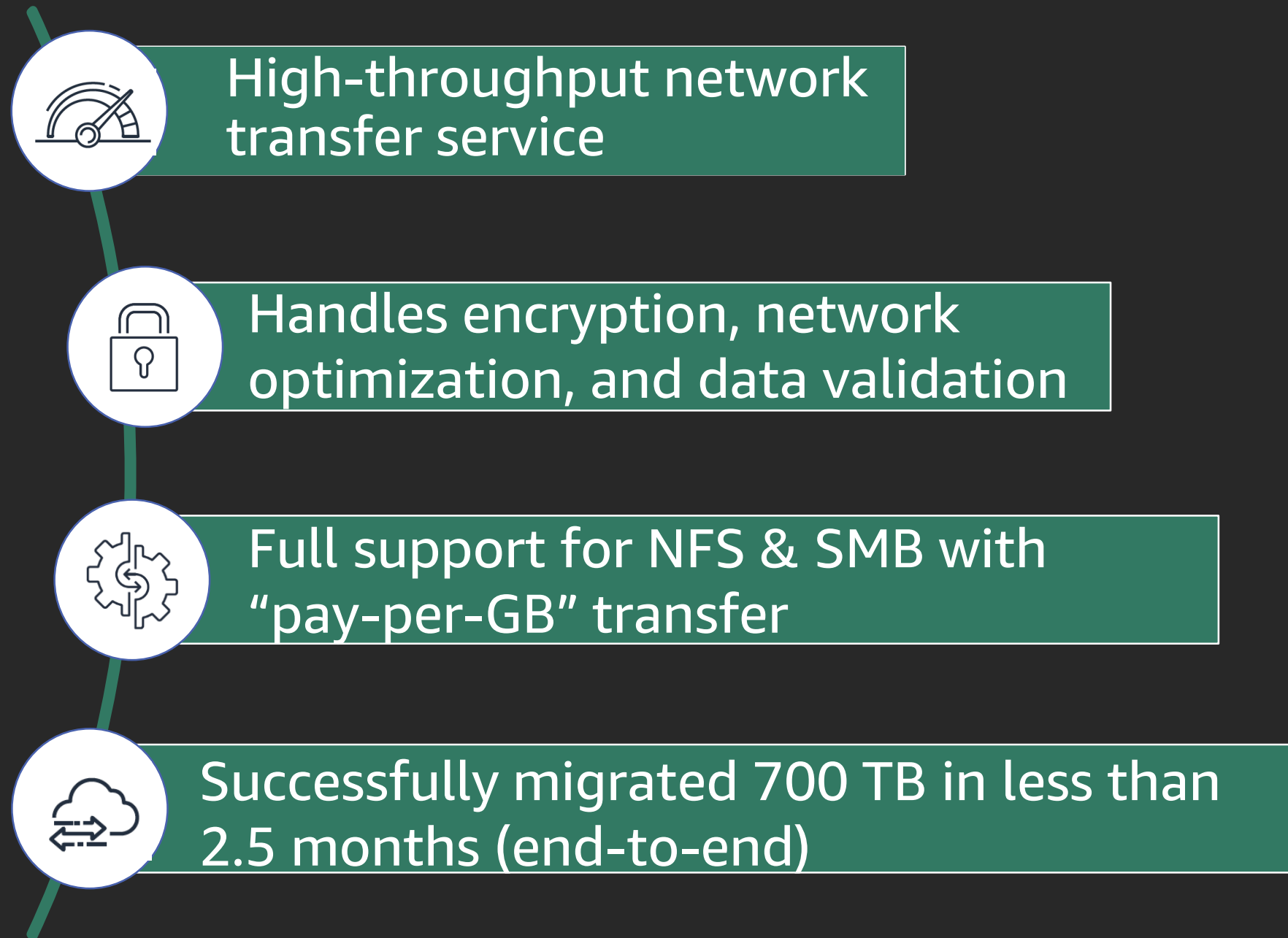


One time migration
10 AWS Snowballs in parallel

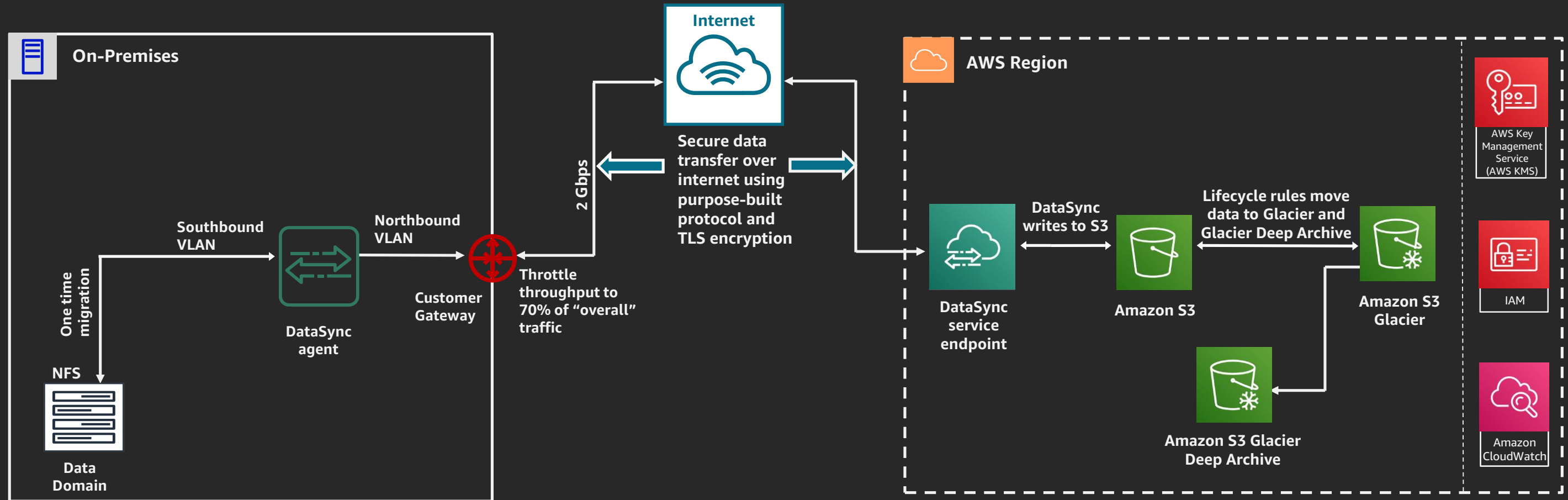


Snowball planning & management
logistic challenges

AWS DataSync – network migration

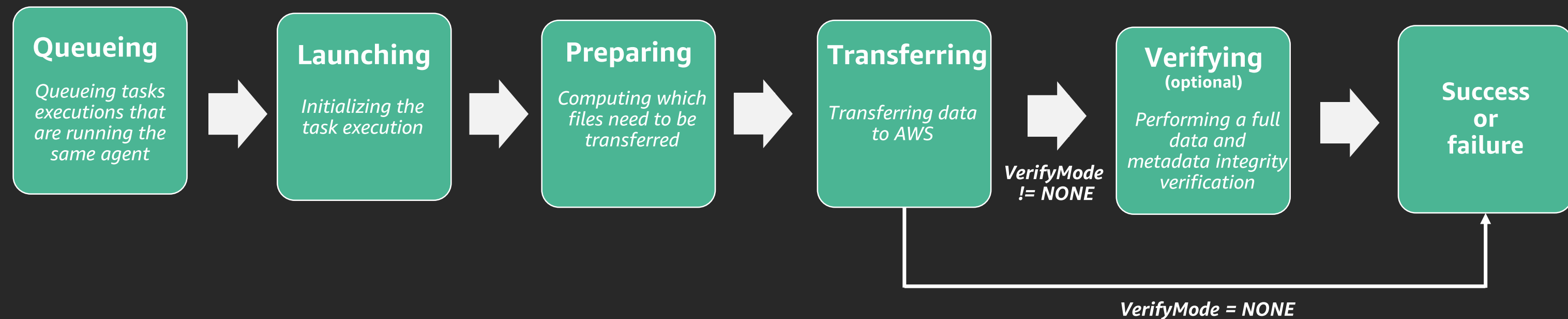


DataSync solution



- 1 Deploy DataSync agent (OVA file) on-premises for local storage access
- 2 Secure data transfer over internet using purpose-built protocol & TLS encryption
- 3 DataSync service writes data to S3
- 4 Lifecycle rules are set to move data to long-term archive (Glacier)

DataSync task transition phases



Lessons learned



Save costs!

Review data retention policies

Storage class selection

S3 Standard



S3 Intelligent-Tiering



S3 Standard IA



S3 One Zone IA



S3 Glacier



S3 Glacier Deep Archive



Lessons learned

Bandwidth control



*Bandwidth
limit (MiB/s)*

Queuing tasks



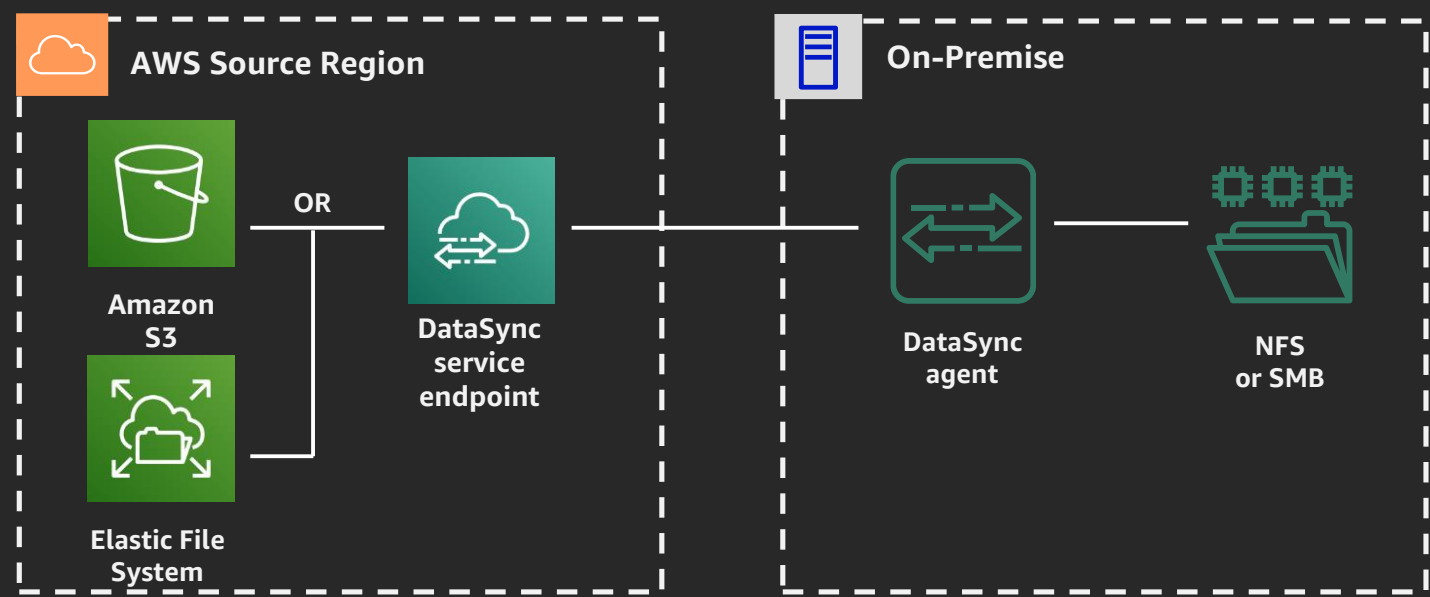
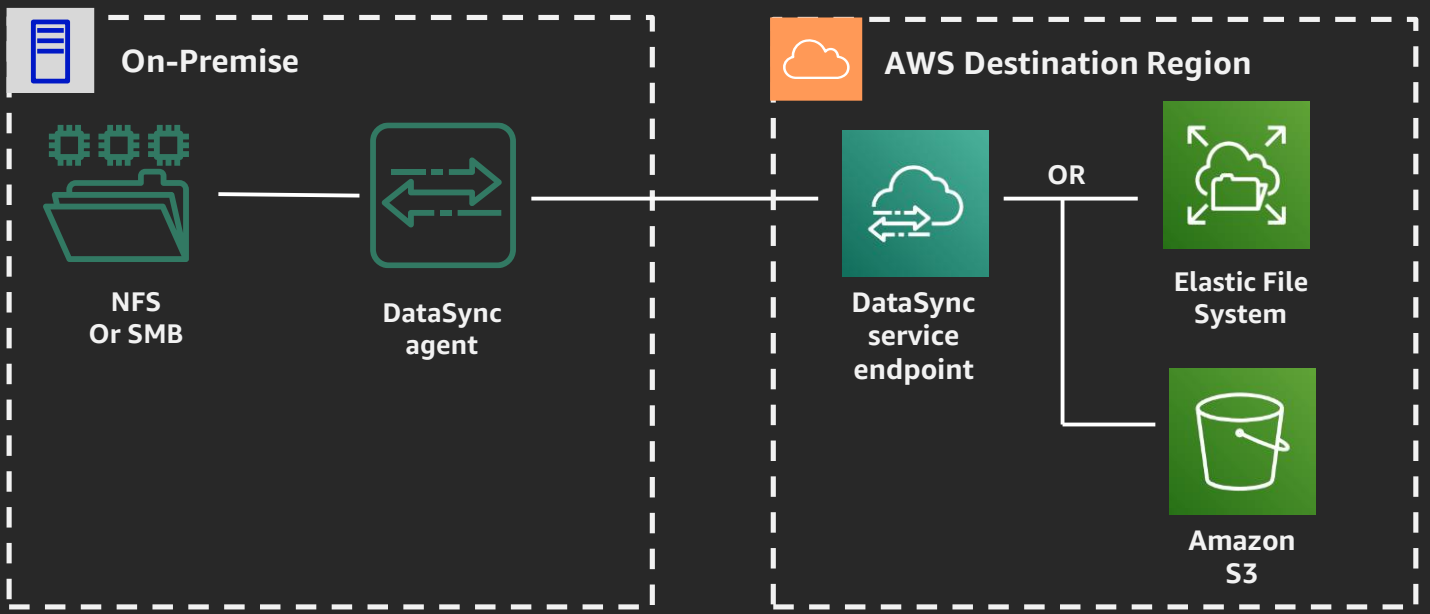
*Single agent to run
multiple task*

Filtering data

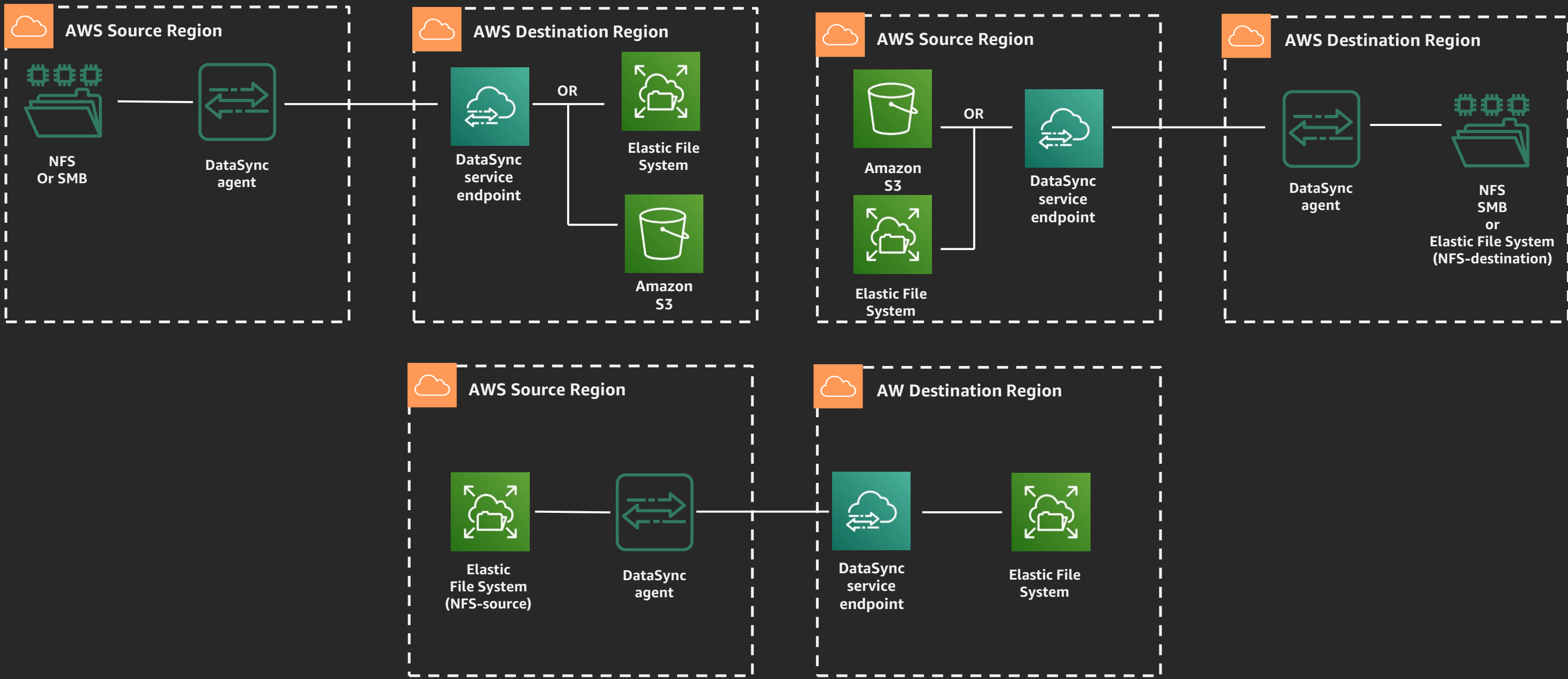


*Include or exclude
patterns*

DataSync transfer scenarios - hybrid

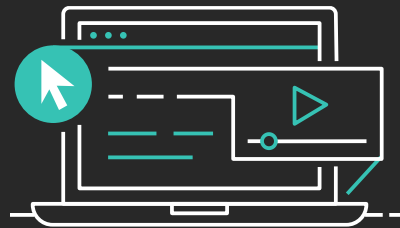


DataSync transfer scenarios - AWS



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Thank you!

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