AWS re:Invent

STG224

Getting started wit AWS DataSync

Scott Franks
Storage SA Specialist
Amazon Web Services

AWS re:Invent

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Introductions

Name
Organization
Position/Role
AWS and AWS DataSync Experience
Goal for Session

AWS DataSync

Simplifies, automates, and accelerates your online data transfer



Fast data transfer

Up to 10 Gbps per agent (100 TB/day)

Scale-out agents to go faster!

Highly parallel optimized network transfer

Inline compression

Transfers only incremental changes

Up to 10x faster than rsync



Easy to Use

No in-cloud infrastructure to deploy, run, or scale

Filter by file name patterns

Schedule periodic transfers

Configure bandwidth limits



Secure and Reliable

Securely accesses AWS storage services

Data transfer always encrypted

End-to-end data validation

Automatic recovery from I/O or transmission errors

VPC and FIPS endpoints available



Integrated

Support for NFS and SMB protocols, Amazon S3, and Amazon EFS

Direct transfer into all S3 storage classes

CloudWatch Metrics, Logs, and Events

CloudTrail logs





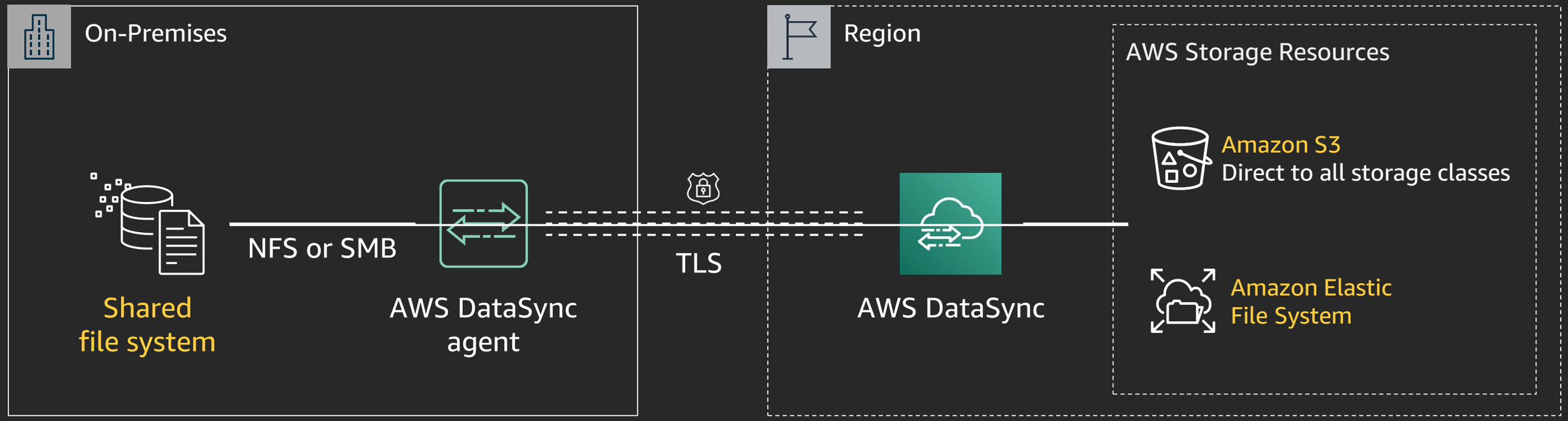
Cost-effective

Pay as you go pricing - $0.0125/GB

Predictable

No minimums

How AWS DataSync works



Deploy agent on VMware or EC2 for efficient access to local NFS or SMB server -> Secure highly parallel transfers using optimized network protocol -> Fully managed service scales to send or receive data from agent -> Optimized reads and writes to Amazon S3 and Amazon EFS

DataSync use cases



Use Case 1 Data Migration to the S3. Typical projects:

- SAN Evacuation – Moving off of EOL HW
- Storage Tiering – Moving data to cloud to extend the capacity of OnPrem Assets



Use Case 2 Data Migration to Cloud Services.

- Science/Engineering workloads CAD, 3D Design

Replication for data protection and recovery

Use Case 3 Copy My Data to the cloud, Deep Archive

- Creates a Full, Durable, copy of all my data

Demo labs

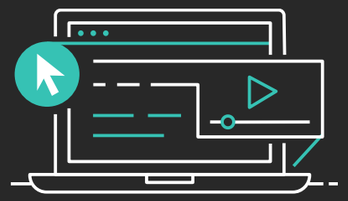
There is a DataSync agent loaded in the VPC

The point of this lab is to explore the configuration options available in DataSync namely:

- Agents
- Locations
- Tasks

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