AWS
re:Invent
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STG337

Migrate any VMware workload from anywhere to improve your TCO

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Chalk talk agenda

1. Drivers for migrating to the cloud
2. Migrating to Amazon EC2
3. Evaluating storage options for balanced migrations
4. Real-world examples
5. Q&A

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Meet the team – Your AWS presenters

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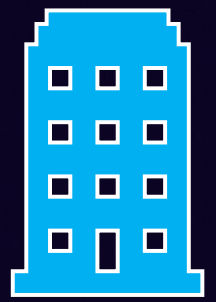
Cloud migration triggers and benefits



Data center

Modernize IT infrastructure

TCO

Optimize costs

Improve operational efficiency

Data center contract expire

Software and hardware refresh

End of software support

Security events and threats

Urgent capacity needs

Merger & aacquisition activities

Compliance

Application innovation

Sustainability

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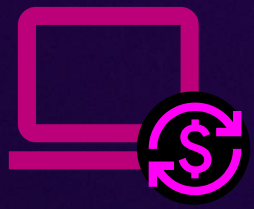
VMware migration challenges

Build future-proof deployment from day 1

Optimize storage costs



Reduce compute total cost of ownership

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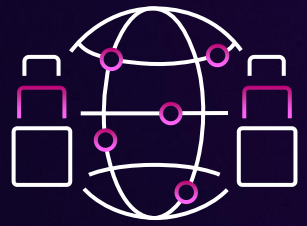
Key considerations for VMware workloads

Performance



Data protection and recovery

Scalability and reliability

Manageability

Cost efficiency

Security and compliance

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AWS migration options

WAYS TO APPROACH YOUR MIGRATION AND MODERNIZATION JOURNEY

All cloud-native benefits and high ROI

Rapid adoption, foundation of cloud benefits, and fast ROI

AWS Regions

Modern apps	Refactor
Managed DB	Replatform
Containers	Replatform
Amazon EC2	Lift and Shift/rehost

AWS Outposts

- Managed DB
- Containers
- Amazon EC2

Alternative partner offerings

- NUTANIX CLOUD CLUSTERS
- RED HAT OPENSHIFT SERVICE ON AWS

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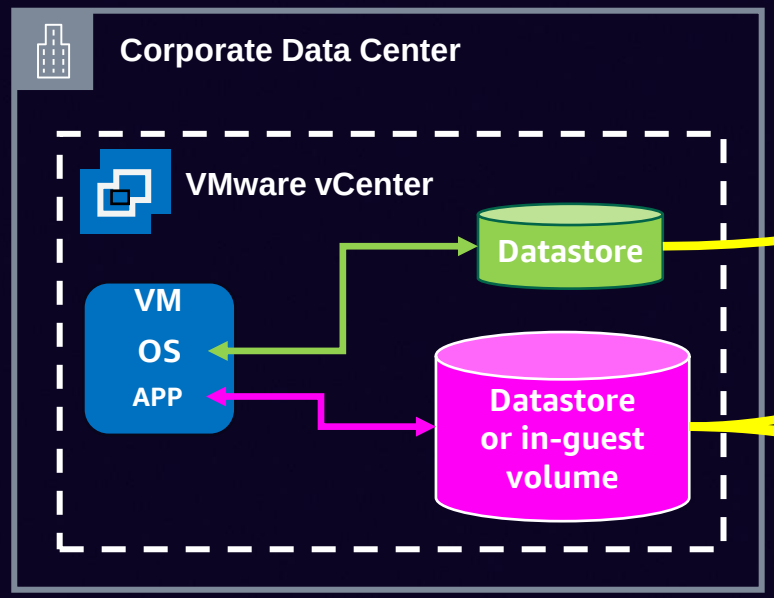
Block and file options for VMware migrations



BLOCK

Operating System

Databases, Streaming, Hadoop

Amazon EBS

BLOCK and FILE

Databases, User apps, Container Storage

Cloud-Native Apps, SaaS Shares, DR, Line of Business Apps, HPC

User Shares, Media Files, Archive, Analytics HPC, AI/ML

Amazon FSx family

Amazon FSx for NetApp ONTAP

Amazon EFS

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Mapping your VMware workloads to Amazon FSx

SMB (file) access, ease of deployment

Amazon FSx for Windows File Server

NFS (file) access, high performance, rich data management features

Amazon FSx for OpenZFS

NVMe/TCP, iSCSI (block) and NFS, SMB (file) access, richest data management features

Amazon FSx for NetApp ONTAP

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Tools and services to support migration to AWS

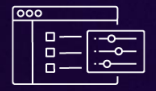
AWS Application Migration Service (MGN)

- Migrate applications to AWS with or without changes to applications or workflows
- AWS MGN automates migration of VMware-based VMs to AWS

AWS Migration Hub

- Discover your existing VMware-based environment
- Analyze application components and infrastructure
- Group resources into applications

Migration Hub Journeys



Predefined expert approved migration templates

Collaboration across partners, practitioners, and customers

Prescriptive guidance and migration related tooling

Single pane of glass to track migrations

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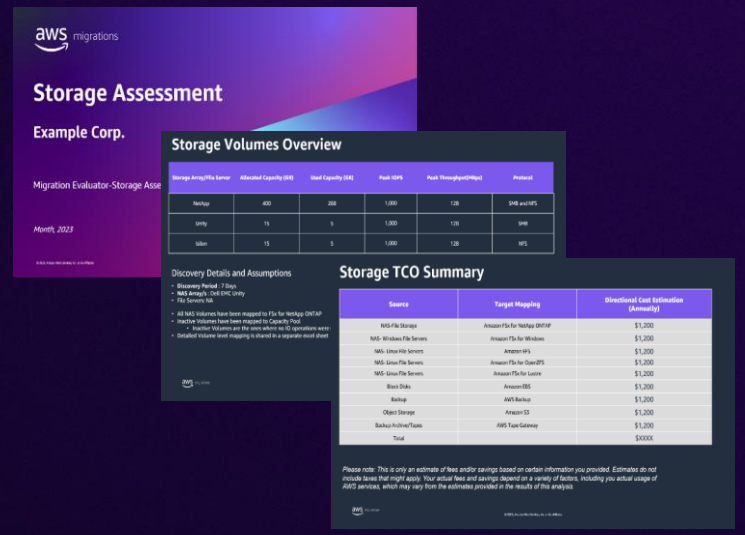
Request an AWS Storage Assessment

Discovery → Analysis → Business case

- Automate storage discovery through our agentless collection options
- Receive data-driven mappings of File (NFS/SMB), Block, and Object storage workloads to target AWS storage services
- Receive an estimated annual cost for hosting your on-premises storage volumes at AWS
- Identify inactive storage volumes to retire or archive
- Receive detailed output at a Server/VM, Volume, and LUN level to expedite migration planning



Scan the QR code and include **Storage Assessment** after your company name

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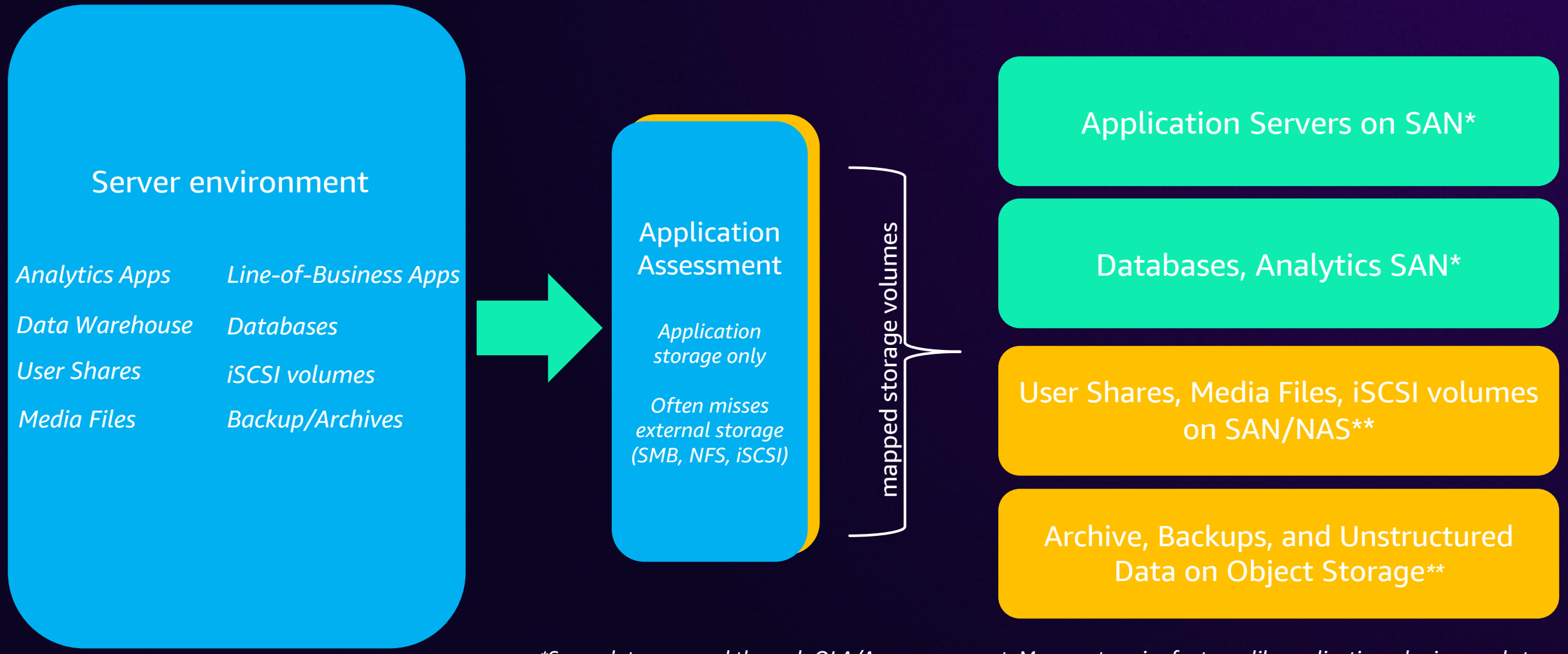
Why an AWS Storage Assessment

OLA assessment catches attached storage, but not **detached storage (~80% of on-prem data)**



Some data assessed through OLA/App assessment. Many enterprise features like replication, cloning, and storage efficiency only found on Amazon FSx (not included in OLA assessment)
*** only assessed through a Storage Assessment)*

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AWS Partner Solutions

NetApp
Workload Factory

Cirrus Data

Matilda Discover

Matilda Migrate

Nutanix

NC2

CloudHedge
OmniDeq

CloudHedge DART

Trianz Conceirto

Services partners

RiverMeadow

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Q&A

Recap

- What are the things I should consider?
- What are my migration options?
- How do I choose the right storage platform?
- Who’s responsible for each step in my journey?
- Should I do a storage assessment?
- What, if any, partner tools should I use?

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Thank you!

Please complete the session survey in the mobile app

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