

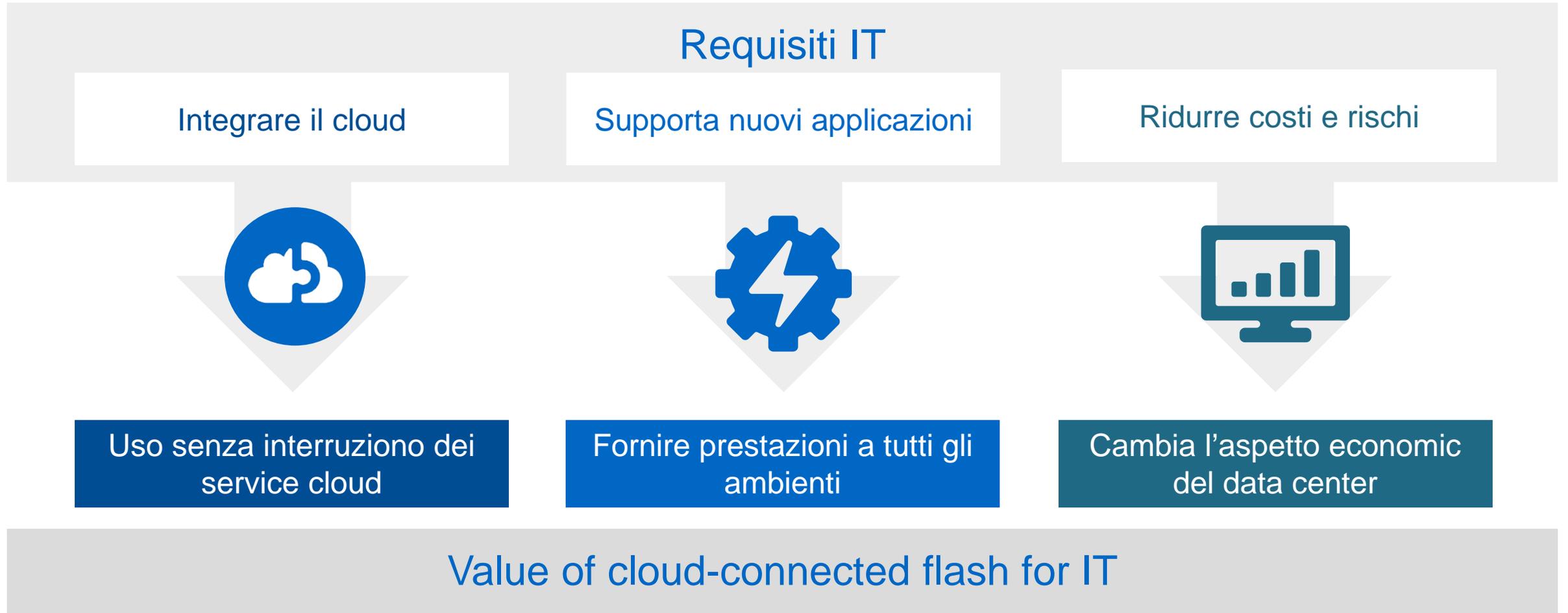


Cloud Connected Flash Storage Solutions for everywhere

Giuseppe Filia
Solutions Engineer



L'IT si sta trasformando per soddisfare le esigenze del business digitale



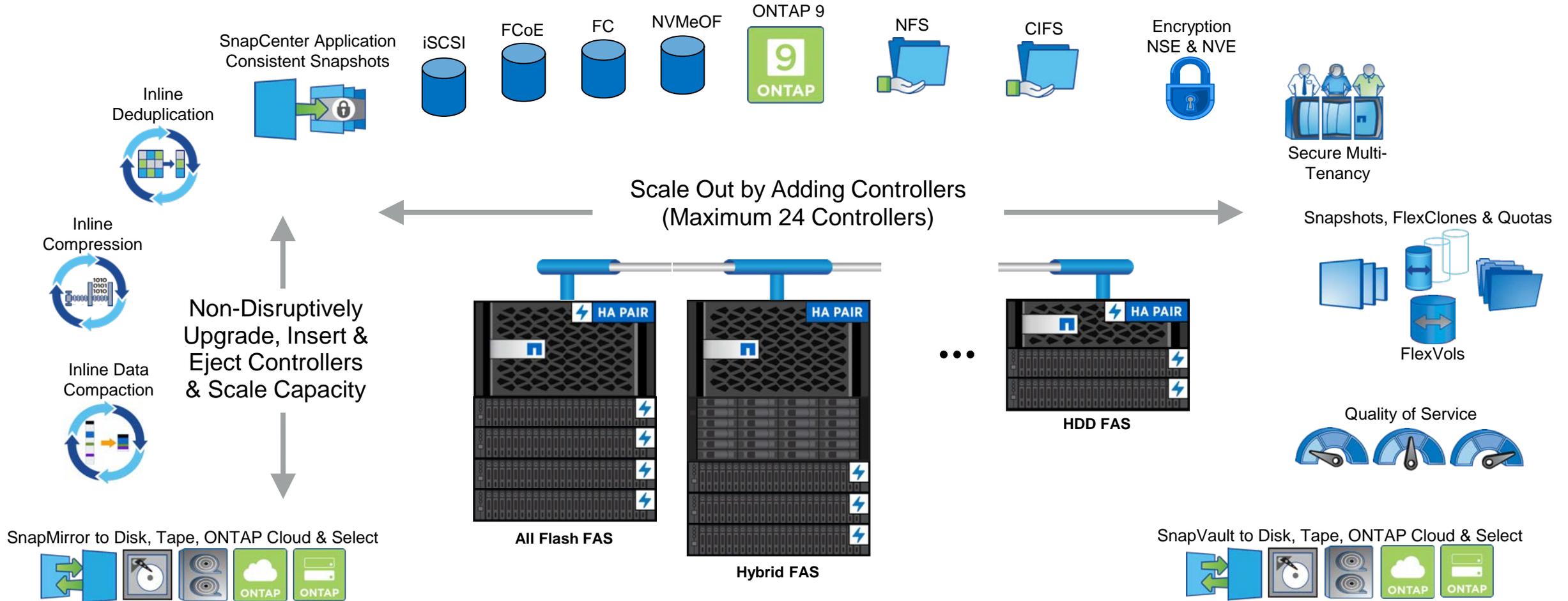
Modernize your data management with NetApp ONTAP 9

- Simplify data management for any application, anywhere
- Accelerate and protect data across the hybrid cloud
- Future-proof your data infrastructure

...to radically change datacenter TCO



ONTAP Enterprise-Grade Capabilities



Simplify data management for any application, anywhere

From the edge to core to cloud

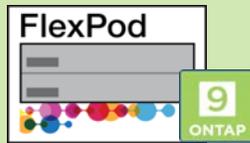


ONTAP 9

Storage Array



Converged



Heterogeneous



SDS



Near Cloud



Cloud



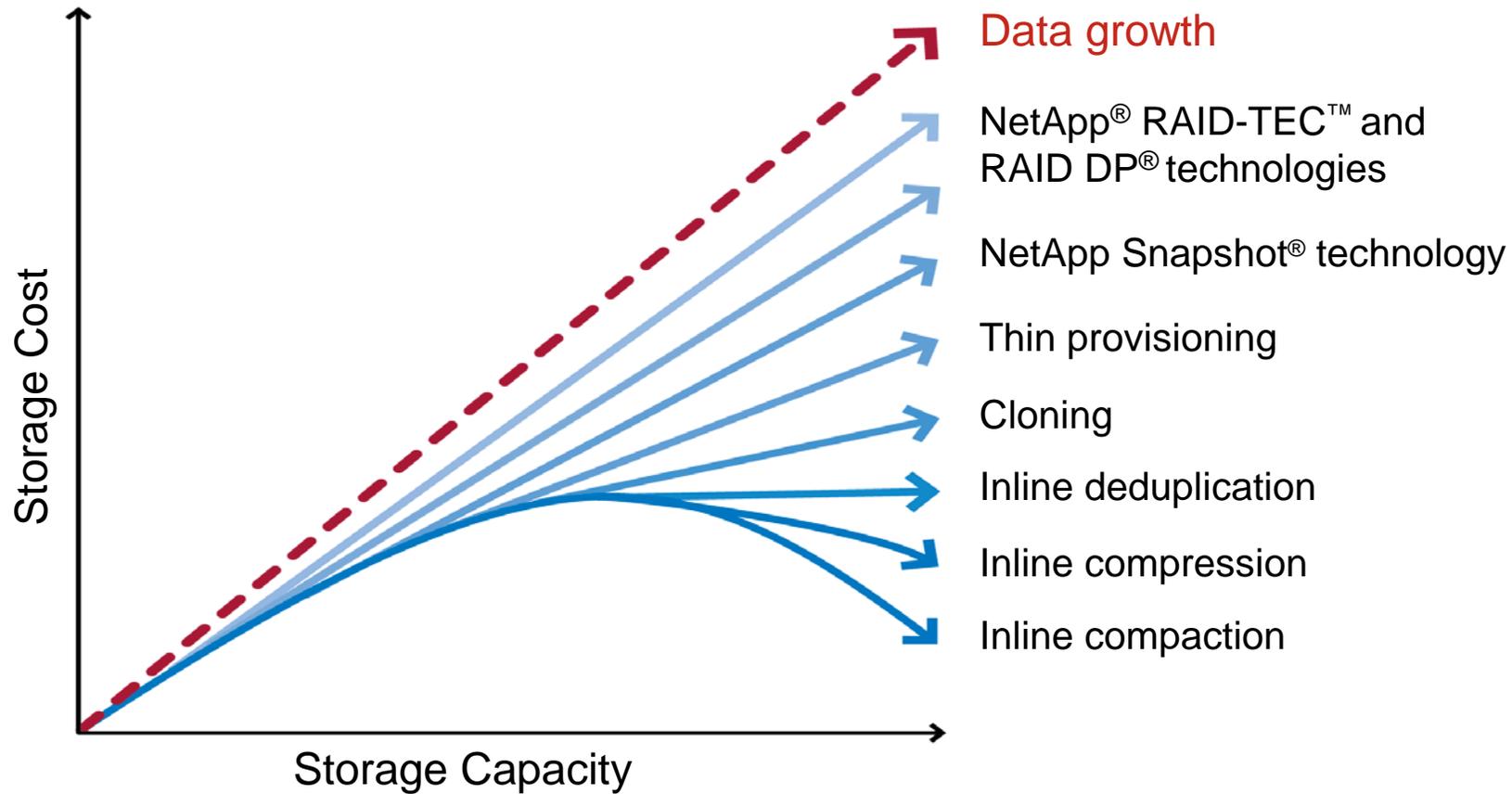
Common data management and data services

SDS = software-defined storage

Ridurre e Costi e Risci

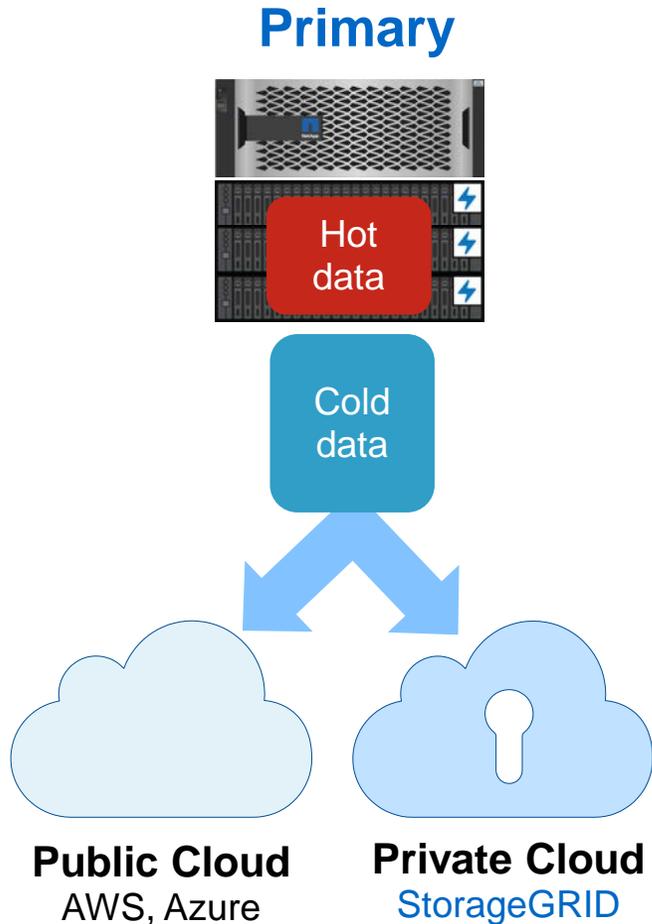
Integrated storage efficiency

Drive storage cost reductions: lower capex and opex



Automated cloud tiering of cold data

FabricPool



Reclaim capacity, consolidate more workloads on existing systems

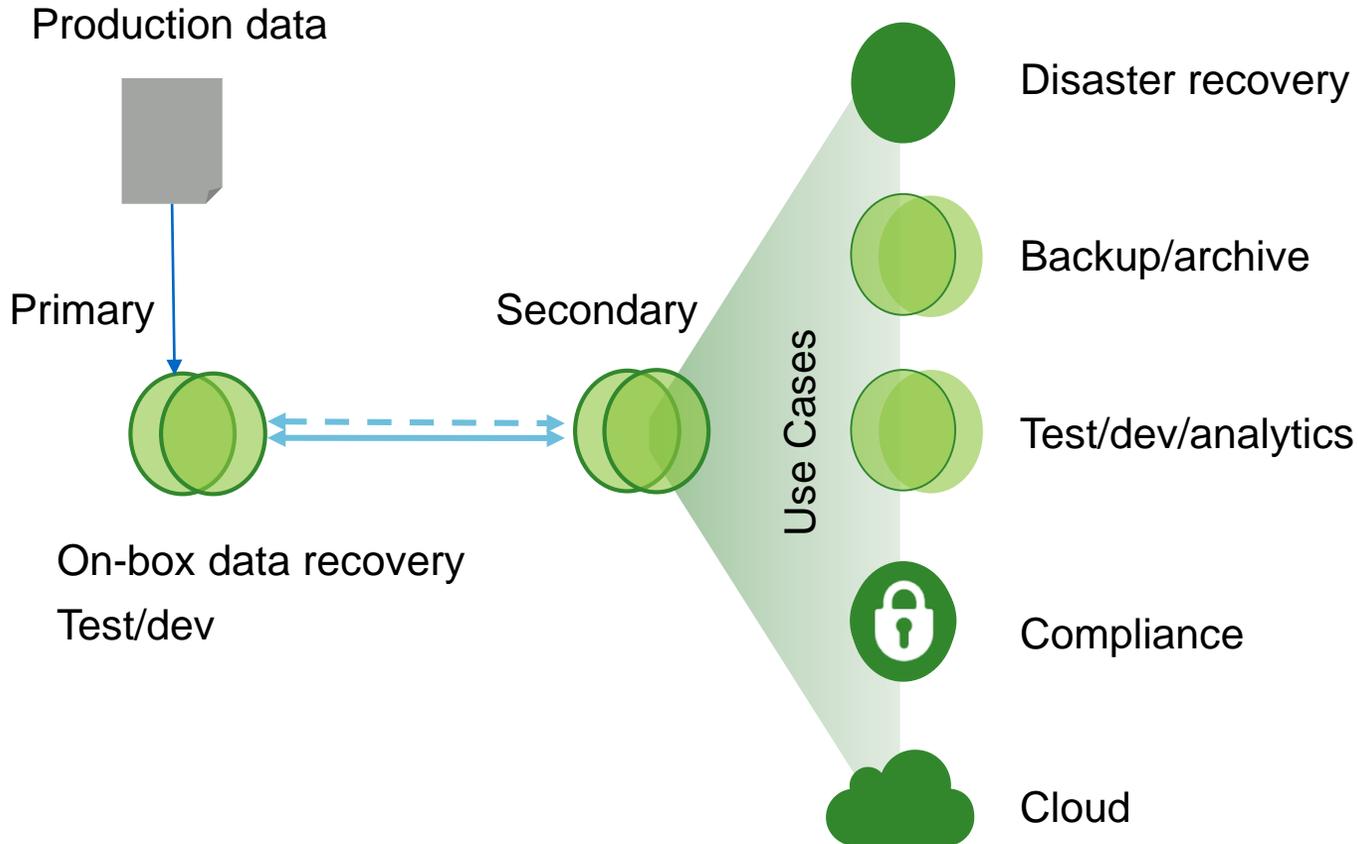
New tiering options with ONTAP FabricPool:

- From active primary storage; decrease storage >50%
- To Azure, in addition to AWS and StorageGRID
- With AFF/FAS systems, ONTAP Cloud, and now ONTAP Select

Simple to set up and manage

Integrated data protection

One data management platform for hybrid cloud



- Built-in data protection with simple/common management across platforms:
 - AFF/FAS
 - ONTAP® Select
 - ONTAP Cloud
- Native data format of secondary data copies enables multiuse for:
 - DR test
 - Backup/archive
 - Test/dev
 - Analytics/reporting
- WORM retention for compliance
- Available site-to-site high availability

Secure application data anywhere

NetApp Volume Encryption: software-based, data-at-rest encryption



Software encrypt any volume, any disk

- FAS, AFF, and ONTAP® Select
- Lower cost: no need for hardware self-encrypting drives
- More granular: volume level
- Onboard and external key manager, multifactor authentication (MFA)
- Cryptographic shredding enables GDPR compliance
- Meet FIPS 140-2 Level 1 compliance requirements

Leverage storage efficiency features

- Deduplication, compression, compaction

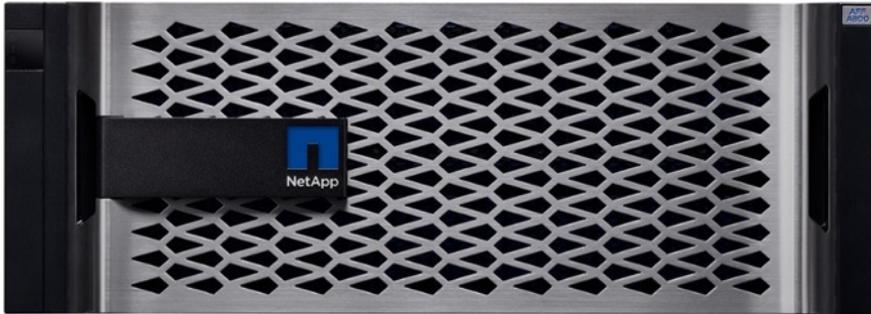
Future proof encryption solution

- Software updates will keep the algorithms up to date

Supporto Applicazioni

Industry's **FIRST** End-To-End NVMe/FC Enterprise All-Flash System

The all new AFF A800



What's new:

- First with end-to-end NVMe
- First with 100GbE
- 2.5 PiB+ effective capacity in 4U*

<200 μ s
latency

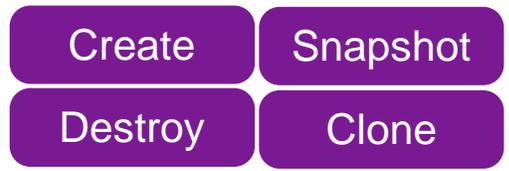
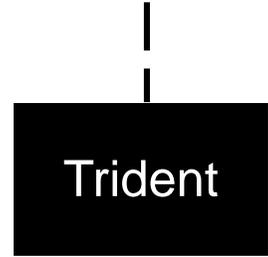
1.3M
IOPs

34GB/s
throughput

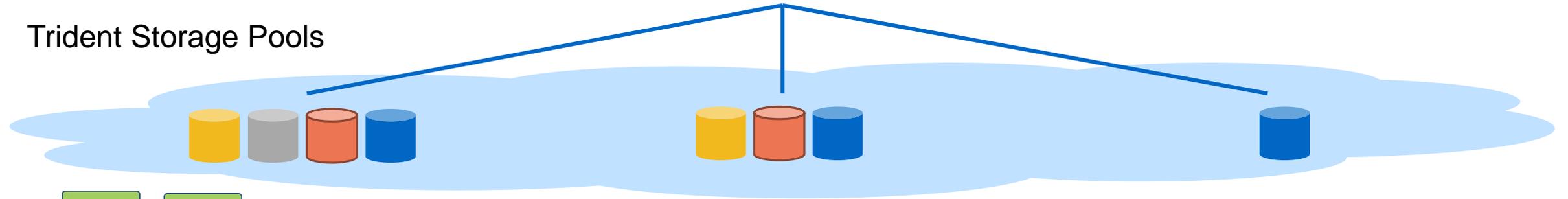
Dynamic Storage Orchestration for your Containers



OPENSIFT **kubernetes** **docker**



Trident Storage Pools



Unified NAS/SAN



All-Flash iSCSI



Supporto Applicazioni



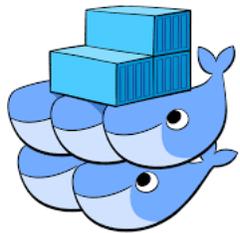
ORACLE®



vmware®



CITRIX®



kubernetes

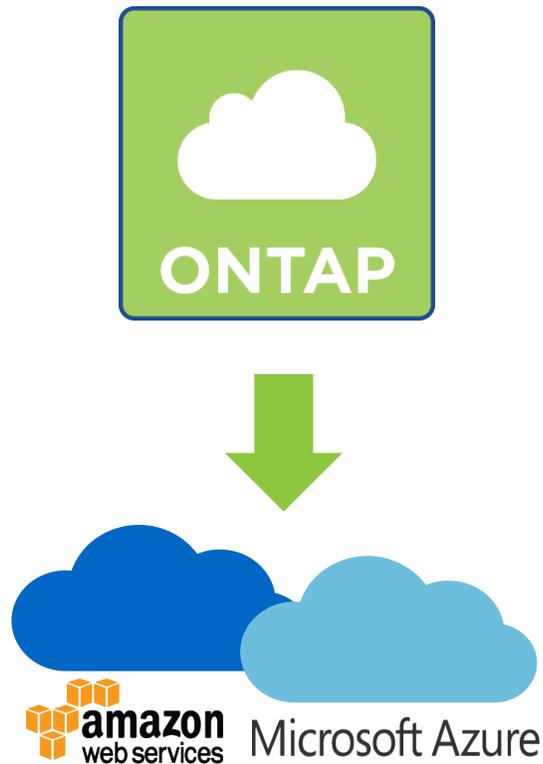




Integrare Servizio Cloud

ONTAP Cloud

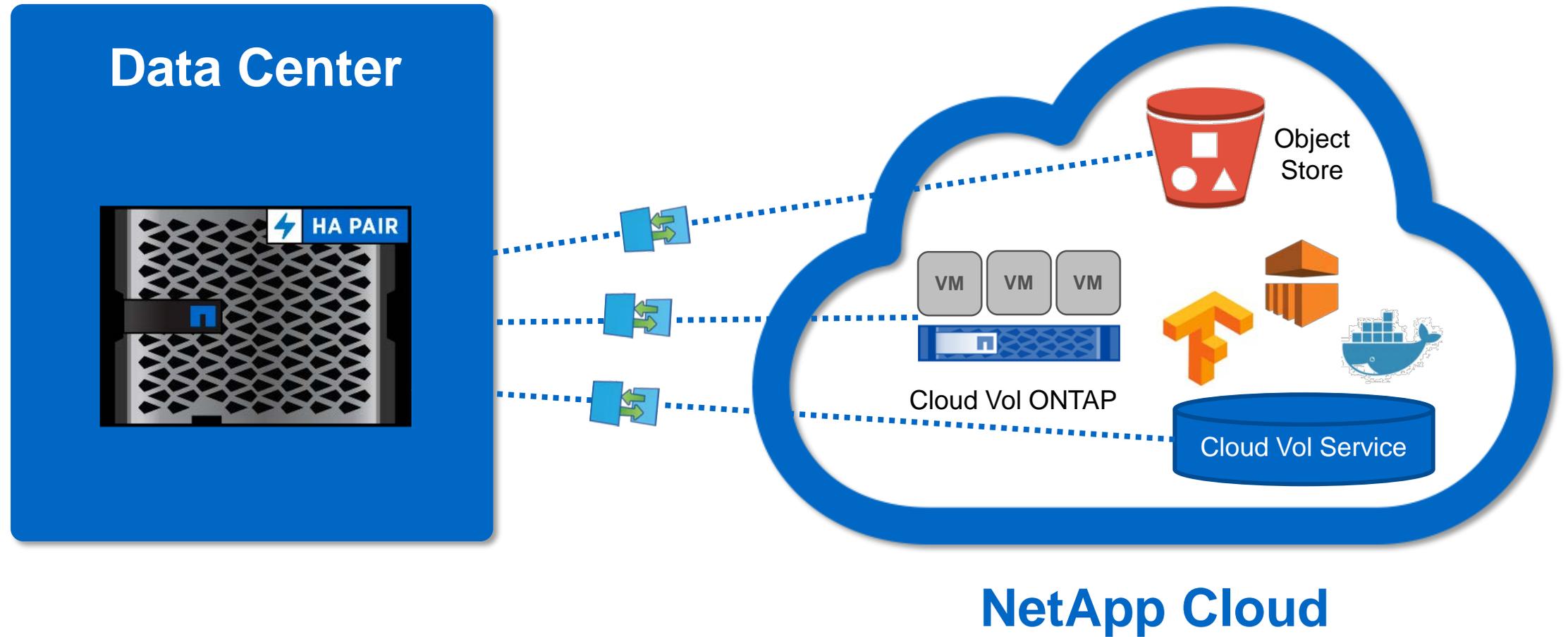
Enterprise data management for Azure and AWS



- Software-defined storage (SDS) in the cloud
 - Pay-as-you-use flexible cost structure
 - High-availability option (AWS)
 - Supports SSD- and HDD-based storage services
- New ways to use the cloud
 - Great for DevOps and cloud disaster recovery
 - Enhance cloud storage with NAS, Snapshot[®] copies, clones, etc.
 - Minimize cloud footprint with advanced data reduction
 - Enable easy data movement between on premises and cloud

NetApp Data Fabric

Enabling Hybrid Cloud with cloud-connected Flash





Demo

Cloud Ontap

Cloud Volume ONTAP Demo

<https://www.youtube.com/watch?v=9l5QToO6ZpU>

The screenshot displays the NetApp Cloud Manager interface. At the top, there is a search bar with the text "cloud volume ontap". Below the search bar, the interface is divided into several sections. On the left, there is a "Working Environments" section with a "Add environment" button. In the center, there is a visual diagram showing five environments: "Azure ONTAPCloud... 5.75 TB Allocated Capacity", "On-Prem ClusterA 25.20 TB Allocated Capacity", "AWS ONTAPCloud... 0.10 TB Allocated Capacity", "AWS demo 0.10 TB Allocated Capacity", and "AWS TierDemo 0.82 TB Allocated Capacity". On the right, there is a "5 Working Environments" summary table:

Environment Type	Count	Capacity
On-Premises	1	25.20 TB Capacity
ONTAP Cloud	3	6.67 TB Capacity
ONTAP Cloud HA	1	0.10 TB Capacity

At the bottom of the screenshot, there is a video player with a progress bar showing 0:11 / 3:42. Below the video player, the text "Overview of OnCommand Cloud Manager and Cloud Volumes ONTAP" is displayed.

Cloud Data Services

The image shows a browser window displaying the NetApp Cloud Central website. The browser's address bar shows the URL `cloud.netapp.com`. The NetApp logo is in the top left corner. The navigation bar includes links for Assessments, Cloud Story, Solutions, Blog, and API. Below this, a row of service icons includes Kubernetes Service, Cloud Volumes (with a dropdown menu), Cloud Insights, Cloud Sync, SaaS Backup, and MongoDB™ Data Management. The dropdown menu for Cloud Volumes is open, showing options for Cloud Volumes Service, Cloud Volumes ONTAP, and Global Regions. The main content area features a large background image of people in a meeting, with a central text overlay: "Welcome to NetApp Cloud Central" and "Providing ultimate data protection, mobility, security and speed for your cloud data needs". A blue button labeled "MY SERVICES" is positioned below the text. In the bottom right corner, a tablet displays a dashboard with various data points and charts.

cloud.netapp.com

NetApp

Assessments Cloud Story Solutions Blog API

Kubernetes Service Cloud Volumes Cloud Insights Cloud Sync SaaS Backup MongoDB™ Data Management My Services Christoph

- Cloud Volumes Service
- Cloud Volumes ONTAP
- Global Regions

Welcome to NetApp Cloud Central

Providing ultimate data protection, mobility, security and speed for your cloud data needs

MY SERVICES



Grazie!