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NetApp Cloud Volumes ONTAP for Azure

kyndryl™

A $19.4B technology services company with 90,000 skilled practitioners, we design, build, manage and modernize the mission-critical technology systems that the world depends on every day.

Known for:

- Being trusted by customers with vital systems

- Deep domain expertise: 30+ years of IT services eminence

- Position as leader by industry analysts

- Innovating at scale with intellectual property and portfolio of 3,000+ patents

- Largest infrastructure implementation and managed services provider

Added value as Kyndryl:

- Unleashing our full potential with partners to deliver exponential outcomes for customers

- Expanding investments in the skills and innovation our customers need

- More nimble and responsive with decision-making close to customer

Why Kyndryl

Kyndryl has deep expertise in designing, running and managing the most modern, efficient and reliable technology infrastructure that the world depends on every day. We are deeply committed to advancing the critical infrastructure that powers human progress. We're building on our foundation of excellence by creating systems in new ways: bringing in the right partners, investing in our business, and working side-by-side with our customers to unlock potential.

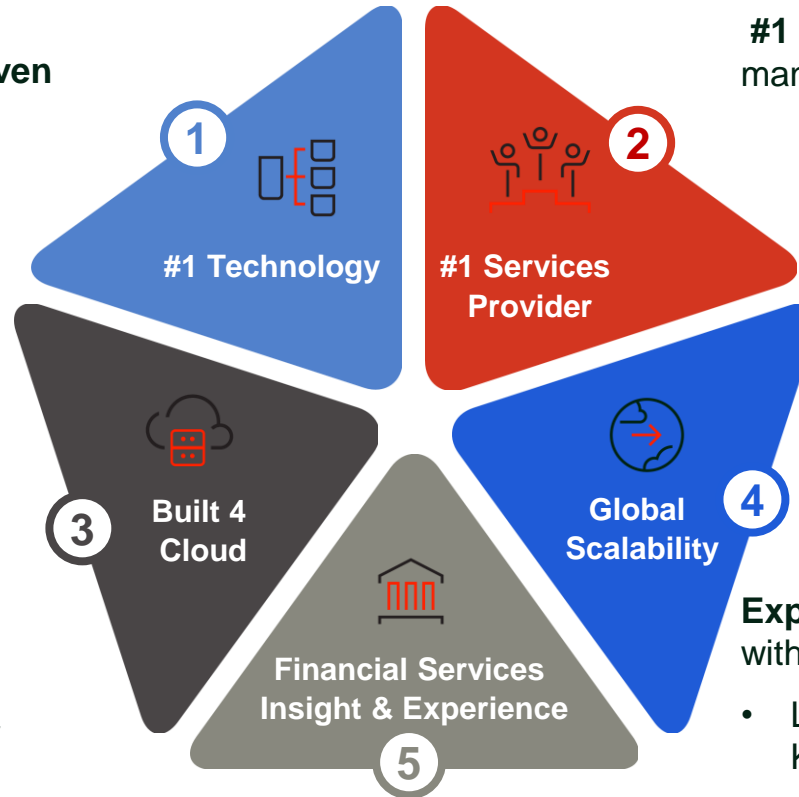Relying on best of breed **market leading** and **proven partners**

- NetApp: Leading NAS technology

→ **Reliability & Stability**

Future proof through "built In" Cloud Integration

- Seamless movement of data between cloud and on premise as the basis for application innovation
- Evergreening

→ **Infrastructure team becomes the enabler for innovation**

#1 Service Provider for infrastructure and hybrid cloud managed services

- Gartner: Leader in DCO & Hybrid Management
- Everest Group: Leader in Automation

→ **Quality through automation**

Global Scalability through worldwide presence

- 100% fulfillment of client requirements

Experience & references in operating critical platforms within the regulated Financial Services

- Largest Financial Services organization are already Kyndryl's clients

→ **Stability in operation & insights of value to clients**.

① #1 Technology

② #1 Services Provider

③ Built 4 Cloud

④ Global Scalability

⑤ Financial Services Insight & Experience

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Kyndryl Distributed Storage Services Profile

+2 Exabytes (2000 PB) Distributed Storage Managed*

+20,000 Storage assets managed

+9,000 SAN switches managed

Distributed Storage Services delivered to +50 countries

+400 Storage Managed Clients

Managing storage products from over 30+ different storage vendors

Private and Public clouds
- Kyndryl datacenters
- Client datacenters
- IBM Cloud
- Azure
- AWS
- Google cloud

Storage Partnerships:
- Azure
- AWS
- Google
- IBM
- NetApp
- Dell EMC
- Pure Storage
- Brocade
- Cisco

Size of largest clients:
- Health company: +100 PB
- Global Industrial Tech: +80PB
- Automotive industry: +50 PB

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* Physical usable capacity of Distributed Server Storage. Excluded storage of Backup & Resiliency services
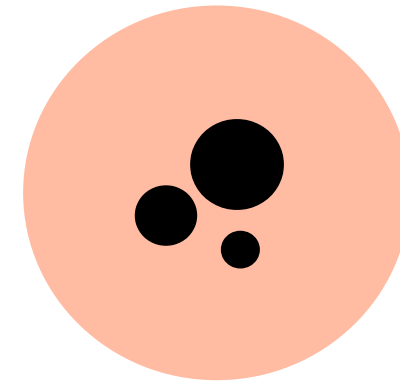
Digital transformation is driving new IT imperatives

The drive to innovate is accelerating.
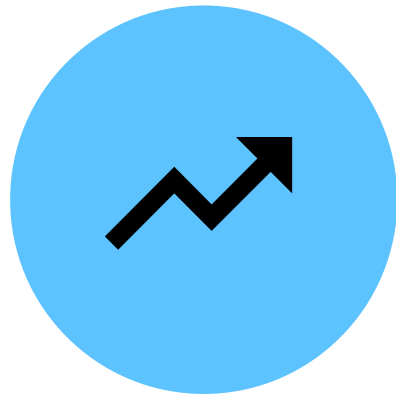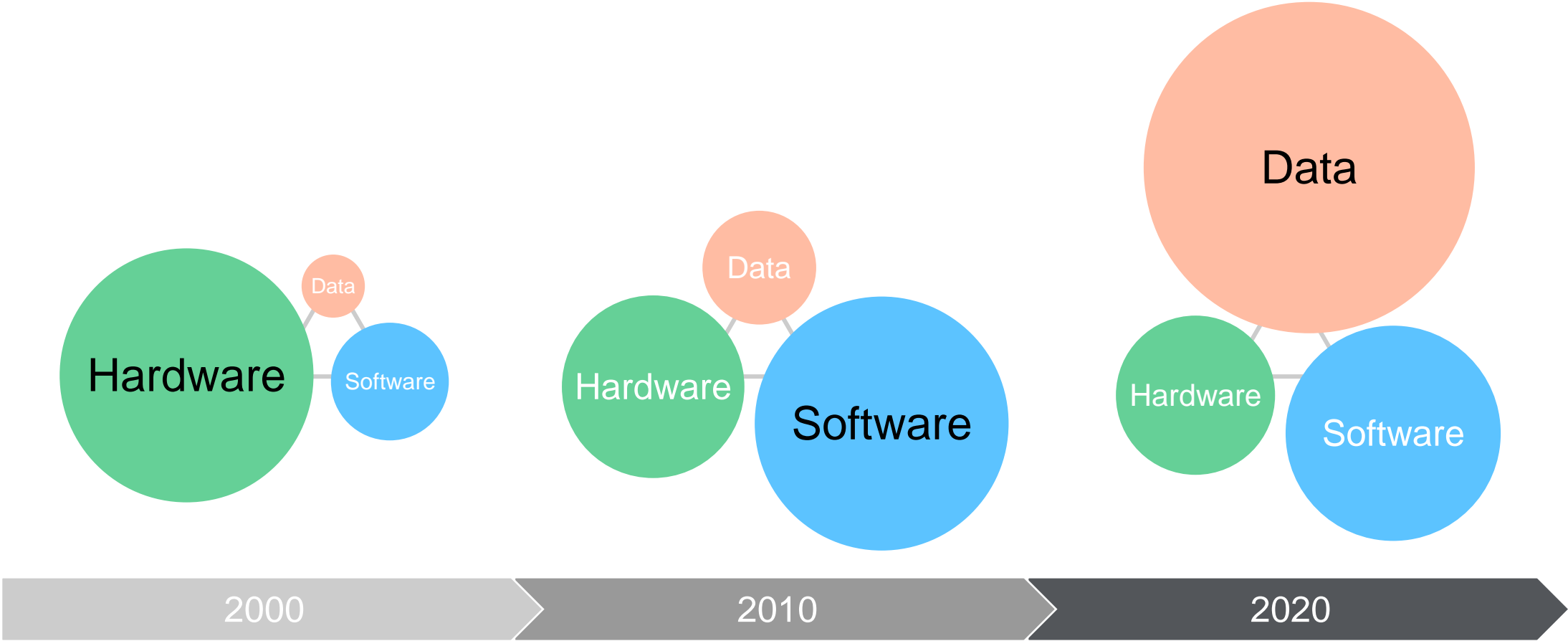

INSPIRE
innovation with the cloud

BUILD
clouds to accelerate new services

MODERNIZE
IT architecture with cloud-connected flash

The rise of data-centric organizations

There is an unstoppable shift toward data as a business driver.

Challenges of workloads in the cloud

We asked our customers: "What are the challenges your organization faces running workloads in the cloud?"

38%
Migrating data and workloads to the cloud

38%
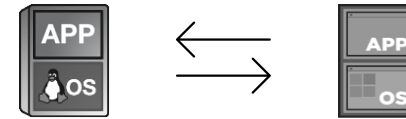Training existing staff on cloud services

33%
Reducing the cost of storage

Moving to Azure is enabling, but what if you need to do more?

Move an on-premises workload to Azure?

Share files between Linux and Windows clients in the cloud seamlessly?

Provide blazing-fast snapshot-based backup and restore for your applications?

Instantly and space-efficiently clone a database for dev/test?

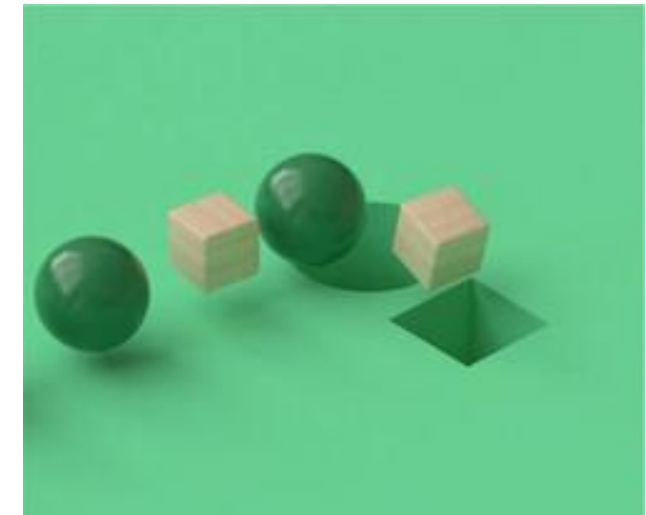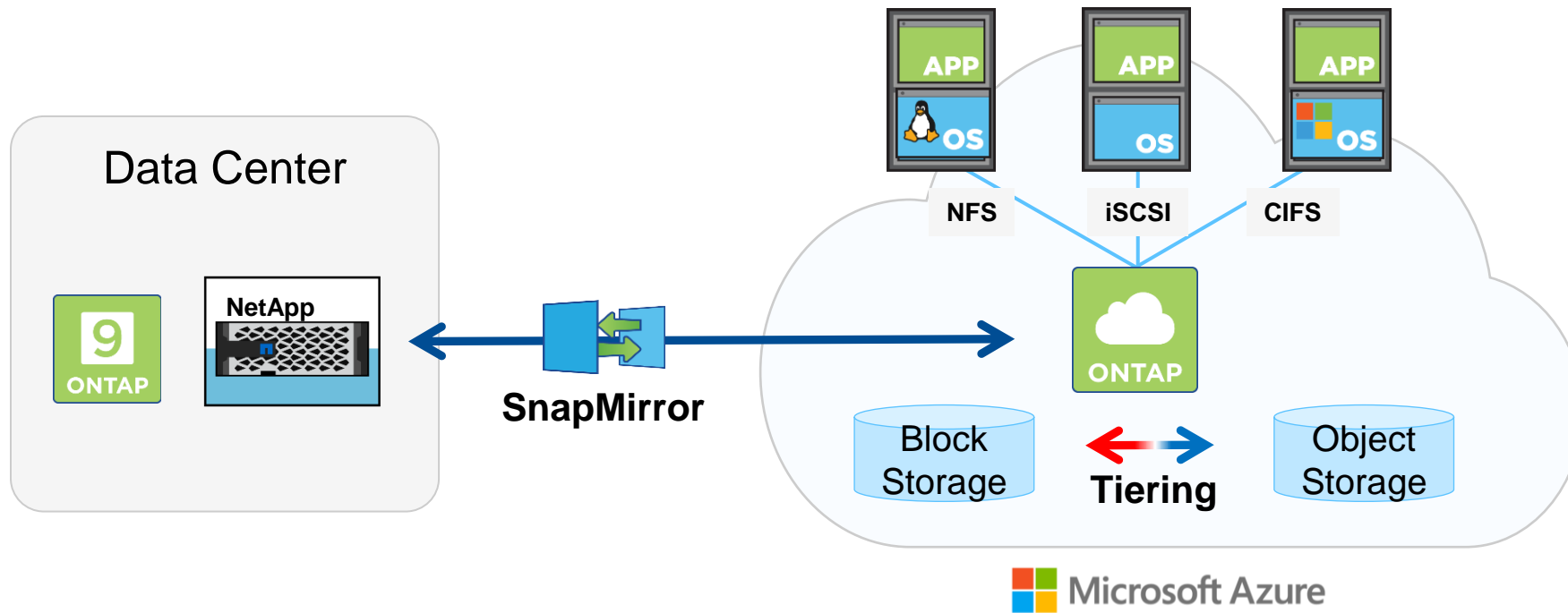Easily set up cross AZ and cross-region disaster recovery?

Drastically reduce cloud storage costs?

Cloud Volumes ONTAP

Delivering the world's leading storage software for the public cloud.

Data Center

NetApp

SnapMirror

APP | OS
APP | OS
APP | OS

NFS | iSCSI | CIFS

ONTAP

Block Storage ← Tiering → Object Storage

Microsoft Azure

NetApp Management Suite
Consistently manage and monitor your data across clouds and on the premises.

Supported ONTAP® Features

- NetApp® Snapshot™ copies
- NFS/CIFS/iSCSI
- Thin provisioning
- Deduplication, compression, compaction
- Encryption at rest and in-flight
- NetApp SnapMirror®
- NetApp FlexClone®
- NetApp SnapLock®
- High availability
- Cold data tiering to object
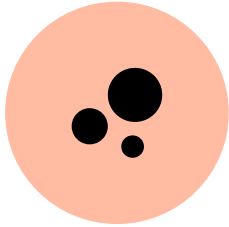- Kubernetes integration with Trident

Enterprise-Grade Storage for Your Apps in Azure

Optimize your cloud storage costs and performance while enhancing data protection, security and compliance.

Cloud Volumes ONTAP

Quickly migrate applications and run enterprise apps and file services in the cloud
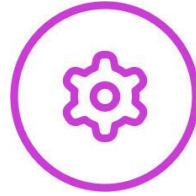
Maintain business continuity and keep your data secure

Dramatically reduce public cloud storage spend

Cloud Manager

Deploy NetApp® Cloud Volumes ONTAP® instances in minutes

Manage your data replication from the data center to the cloud

Achieve data security through NetApp managed encryption

Build hybrid environments quickly

Do it all with ease using Cloud Manager's intuitive user interface

Automate data management and application deployment from the edge, to the core, to the cloud.
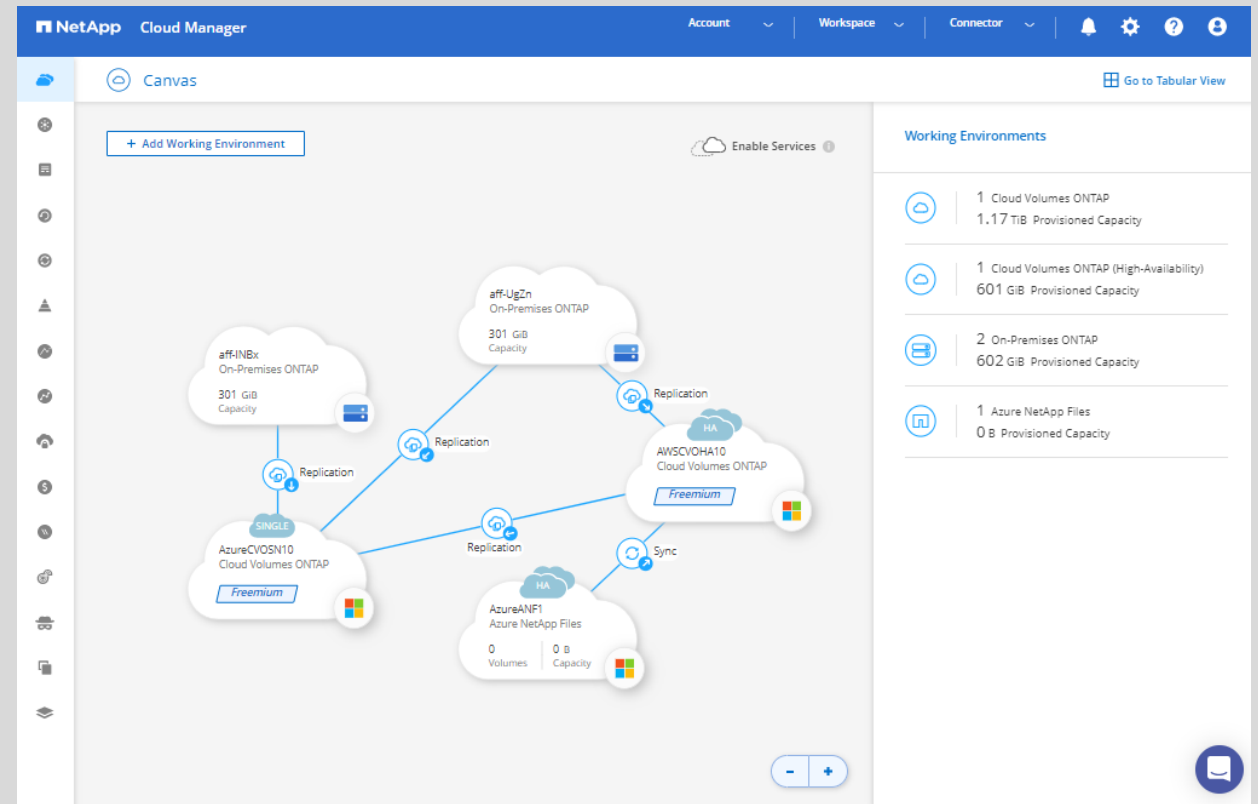
Cloud Manager gives you a simple deployment and management suite for Cloud Volumes ONTAP and more

Cloud Insights

Cloud Insights
Monitor, Optimize and Secure
Control the performance and utilization of your cloud workloads

Cloud Insights Helps You To

- Find problems faster and be a hero
- Manage resources more effectively to do more with less
- Meet SLOs and SLAs during and after your move to cloud
- Stop ransomware in its tracks with actionable intelligence

Key Workloads

Kubernetes Monitoring
Cloud Monitoring
Hybrid IT Resource Monitoring
Insider Threat Detection

Key Features

Visibility
Kubernetes topology
Usage optimization
Dashboards
Alerts
Machine learning
Insider threats
Data usage auditing
Active IQ integration

Cloud Compliance

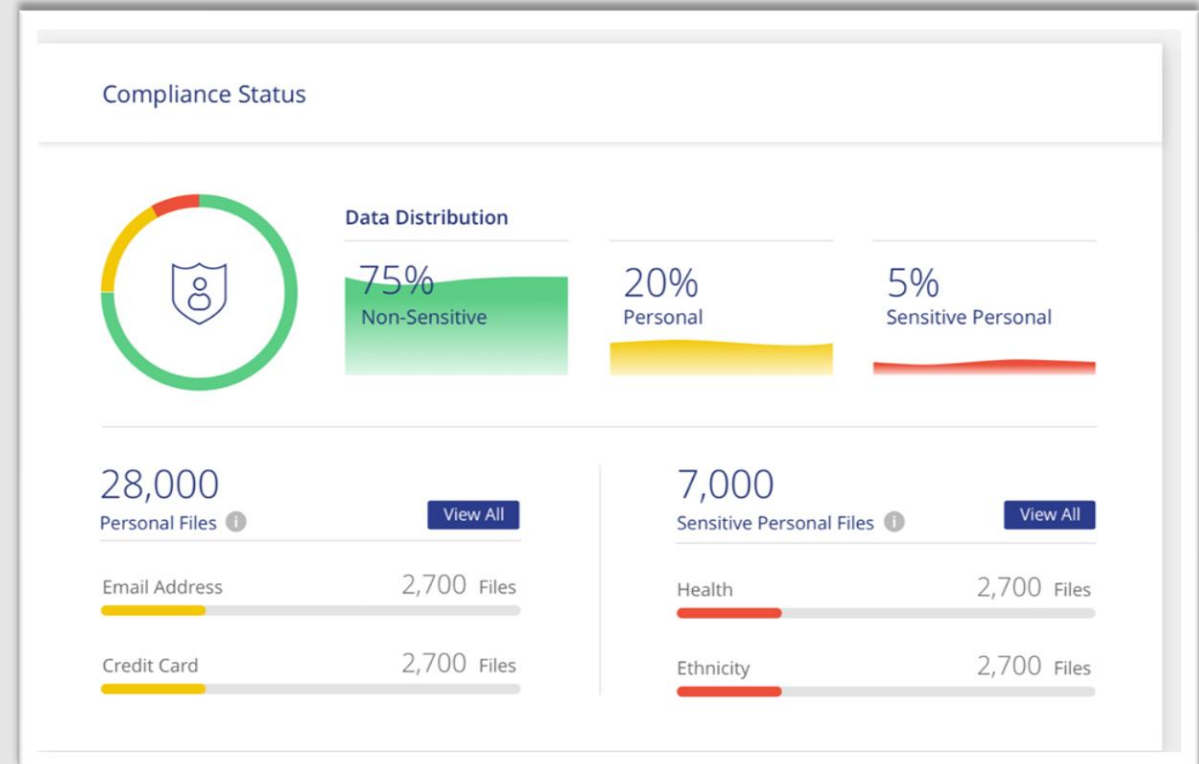- Always-On, AI Driven Data Privacy and Compliance Controls

- Support all major compliance regulations: *PCI, HIPAA, GDPR, CCPA etc.*

- Easy, out of the box reporting

- Seamless activation & zero operations impact

- Free for Cloud Volumes ONTAP customers

Cloud Compliance makes your business application data and cloud environments privacy-ready

Cloud Compliance real time data privacy status dashboard