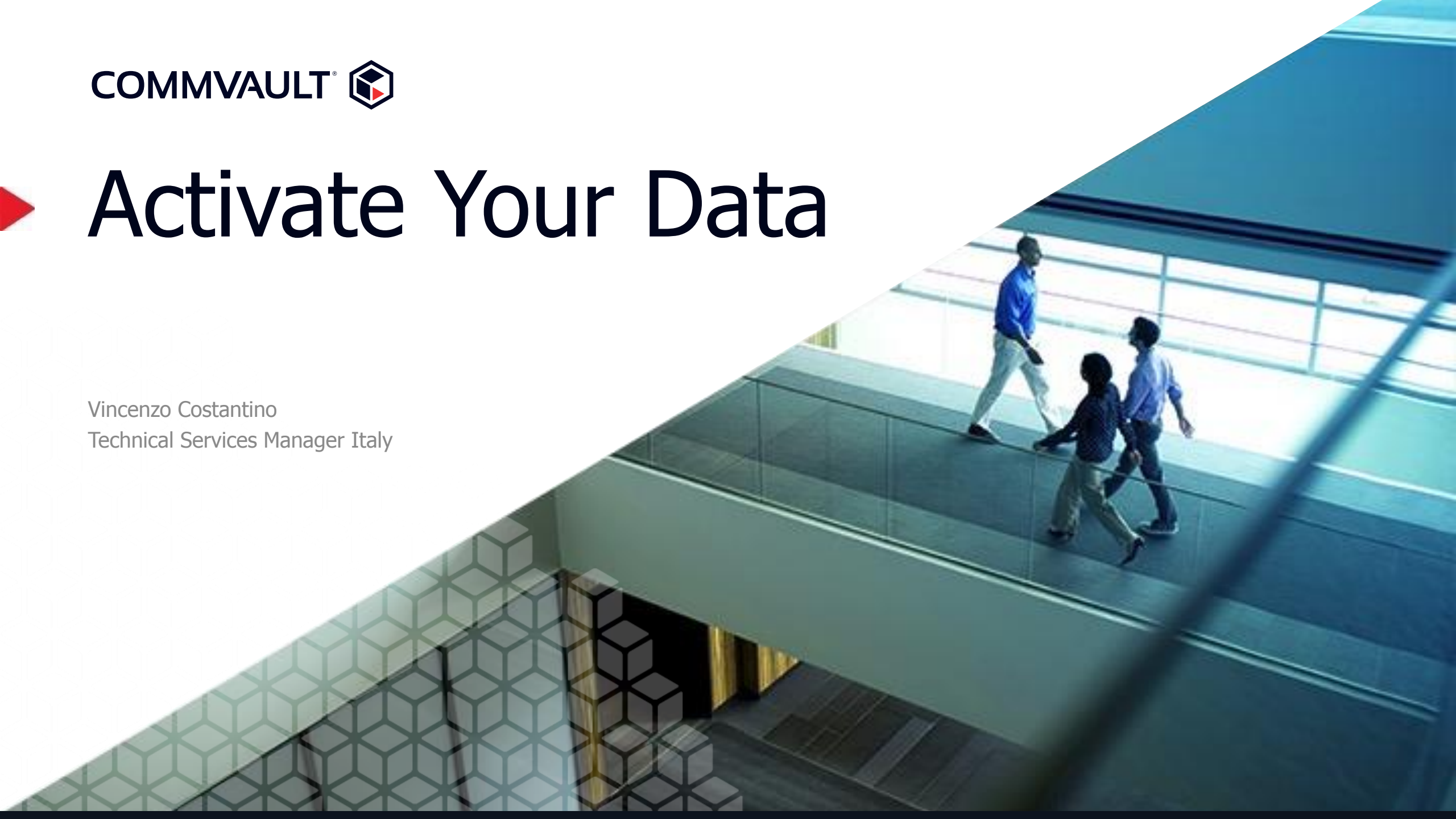




▶ Activate Your Data

Vincenzo Costantino
Technical Services Manager Italy



Snapshot of Commvault

- Established in 1996, headquartered in New Jersey, USA
- Over 2,000 employees operating across continents
- More than 40 percent of revenues outside of the Americas
- 100% organic growth / single code base
- Strong balance sheet, no debt



A Single Platform for Data and Information Management

Data Management

- Backup and Recovery
- Snapshot Integration
- Deduplication
- Virtual Server Protection
- Archive
- Data Protection
- Edge Data Protection
- Storage Tiering

Value
Business
Insight

Information Management

- Info Governance
- Regulatory & Compliance
- Content-based Retention
- Enterprise Search
- E-Discovery
- Legal Hold
- Defensible Deletion
- Business Decision Making

Gartner REPORTS 2011 – 2015

Figure 1. Magic Quadrant for Enterprise Backup Software and Integrated Appliances

Figure 1. Magic Q



Source: Gartner (Jun
source: gartner (january 20



Source: Gartner (June 2015)



Who says we are a leader? Gartner Research (Five times in a row)

Gartner: 2015 Magic Quadrant for Enterprise Backup Software and Integrated Appliances

Figure 1. Magic Quadrant for Enterprise Backup Software and Integrated Appliances



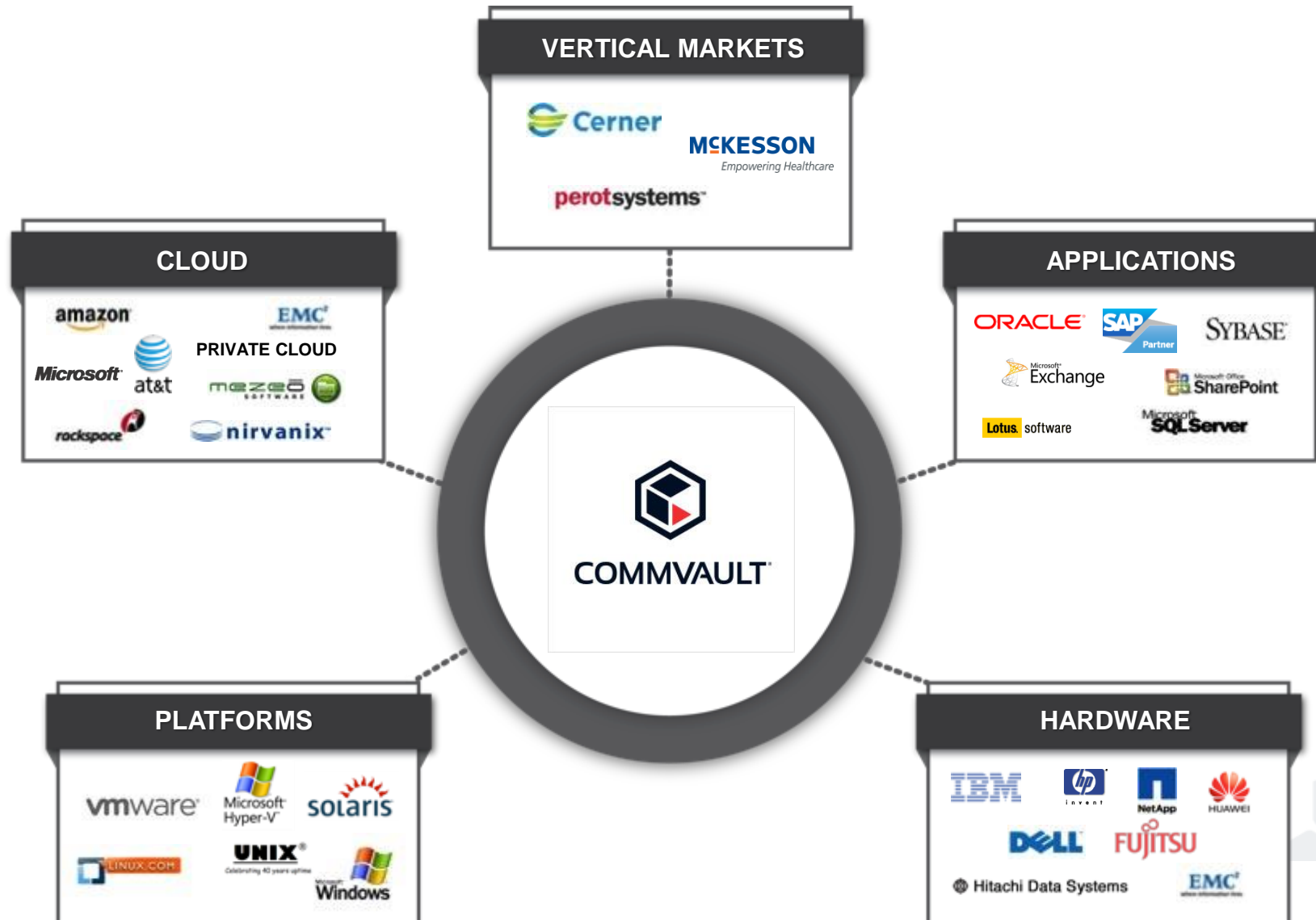
Source: Gartner (June 2015)

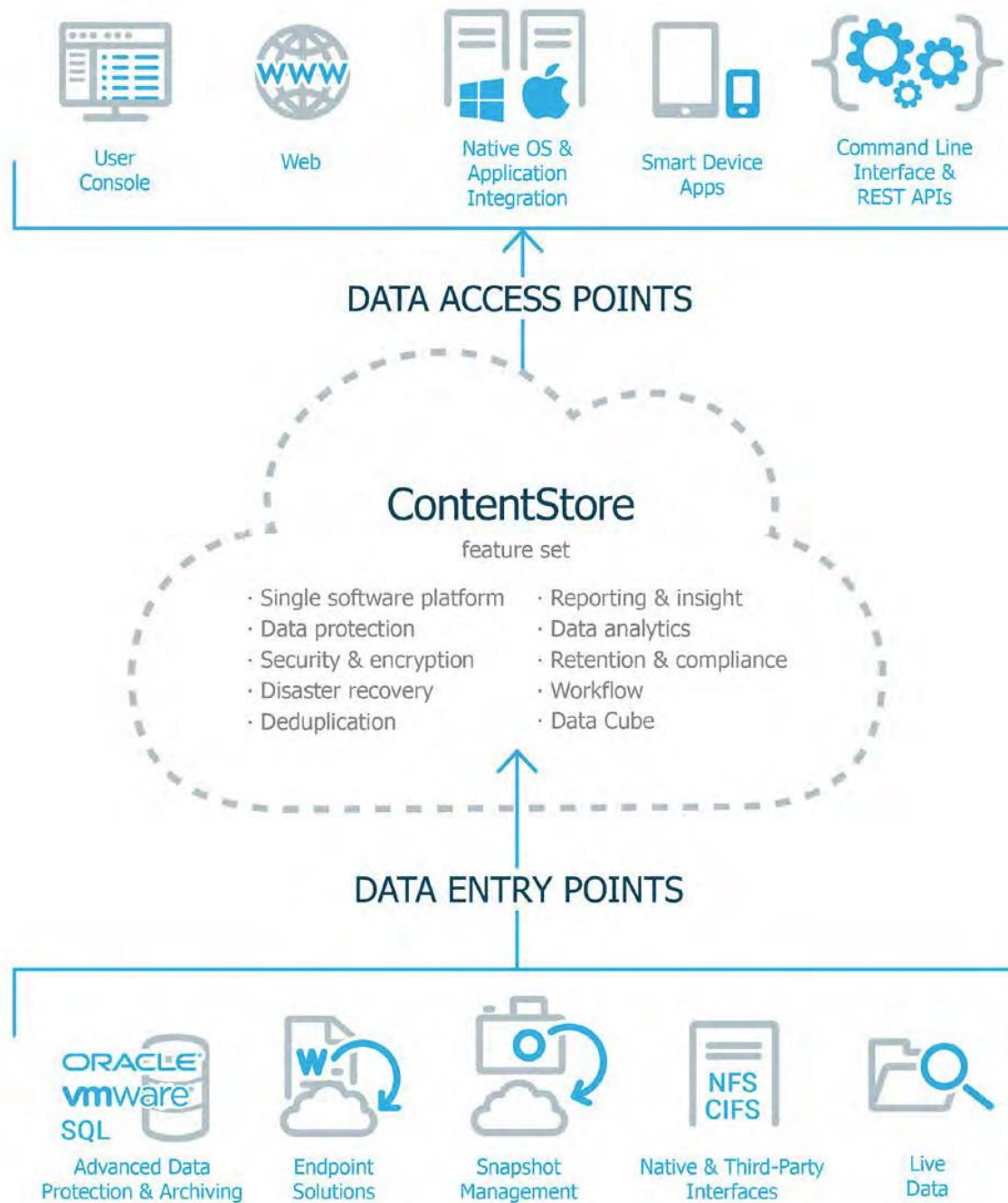
Gartner-identified Strengths

- Commvault has a single administrative console and reporting/analytics engine for all backup, archiving, file sync and share, search, and data loss prevention functions.
- Focused solution sets, multiple new licensing bundles, and new branded and partner-integrated appliances make Commvault appropriate for niche to large heterogeneous backup requirements.
- Commvault offers the industry's broadest support for integrating with and exploiting storage hardware platform snapshots, directly supporting over two dozen of the top-selling storage arrays.

Independent, Integrated And Connected

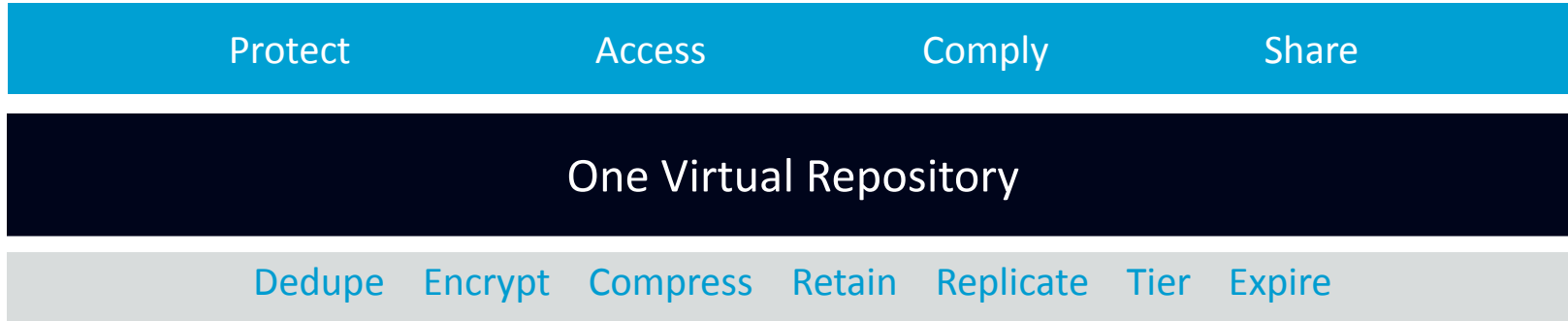
Customer freedom, investment protection into the future





Delivering Broader & Deeper Value to our Customers

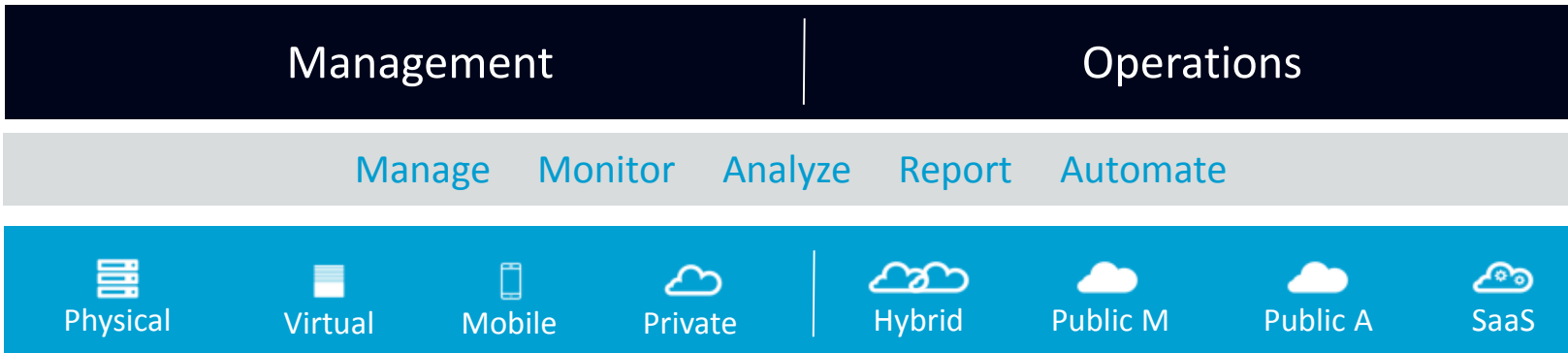
One virtual repository
to aid in access and use,
and eliminate the issue of
“copy data”











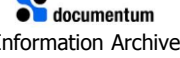



















































Single index
lets you know where
and what your data is,
in unprecedented detail



Industry-leading
management capability
provides a **single pane
of glass**



Enterprise-ready solutions – engineered to work together

	Data Protection and Recovery	Information Retention and Governance	Mobile for Business	IT Operations and Management
CVLT	COMMVAULT® 			
EMC	     	      	  	Backup and Recovery Manager   
SYM	       	     	  System Recovery	  OpsCenter Analytics
IBM	       	      	  	   

Dynamic Operational Management



Multi-Tenancy

- CommServe drives centralized multi-tenant administration
- Active Directory integrated role-based security and auditing
- Self-service backup, recovery, search, and reporting

Automation

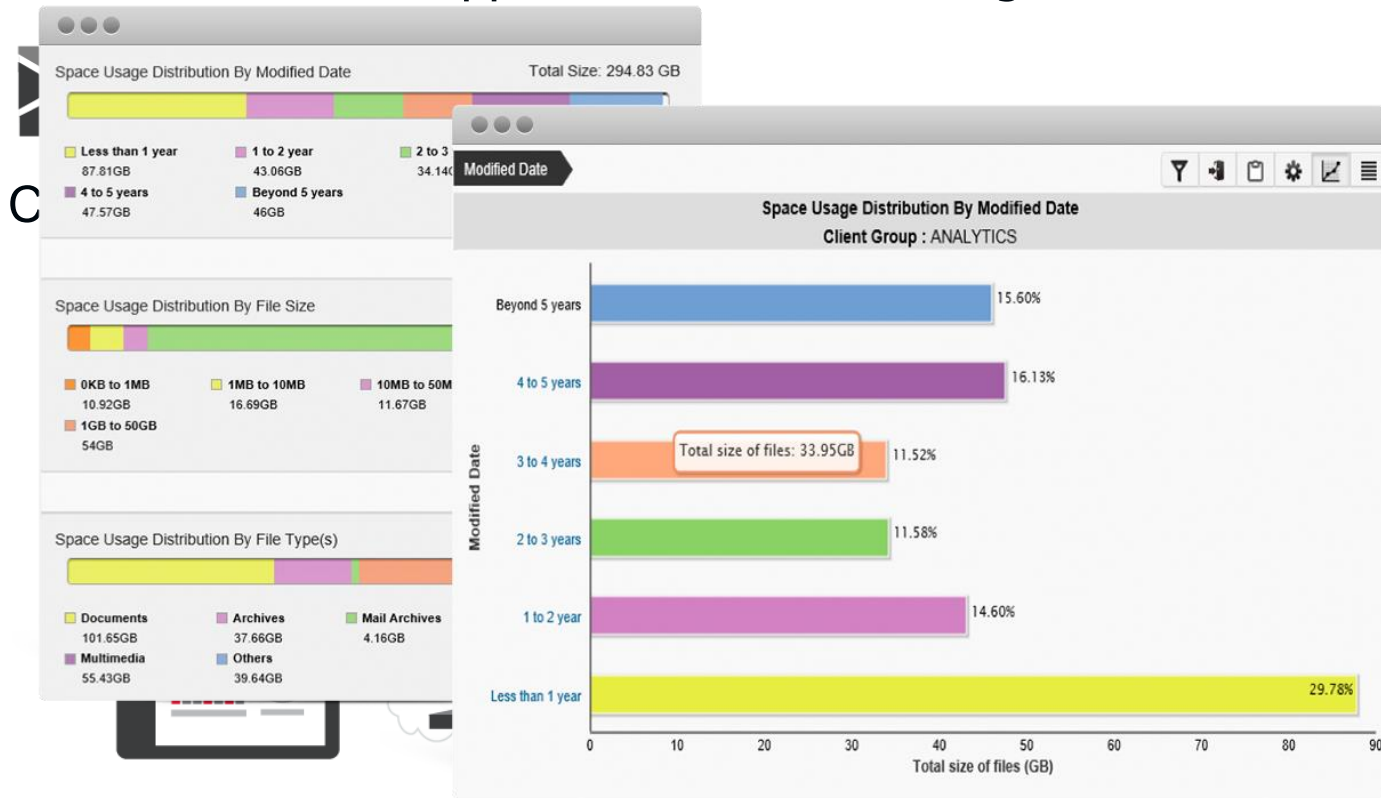
- Automated client deployment, update, and upgrade
- Support automation and automatic log collection
- Remote Operational Management Service (ROMS)

Reporting At Scale

- Cost modeling, growth trending, and SLA measurement
- Custom reporting portal for unique demands
- Global anonymous performance comparisons

Simpana analytics

Support to Decision-making

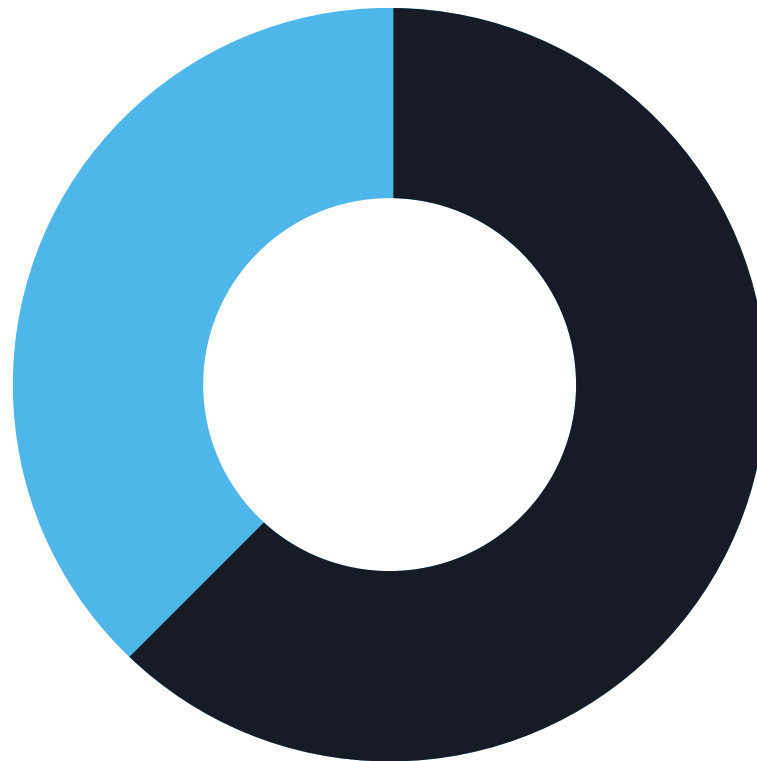


Export and multiformat access,
in public and private clouds

Realities of your data

40%

of data is production



60%

of the data is consumed by
secondary workloads:

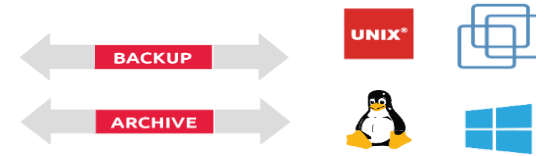
- Analytics
- Compliance
- Business intelligence
- Archives
- Disaster recovery
- Governance
- Off-site
- Test and dev ops
- Backups
- Snaps and clones for reporting

global deduplication

No-risk technology



Enterprise class, source and target
Optimized for WAN and LAN



Any agent dedup,
Any target dedup



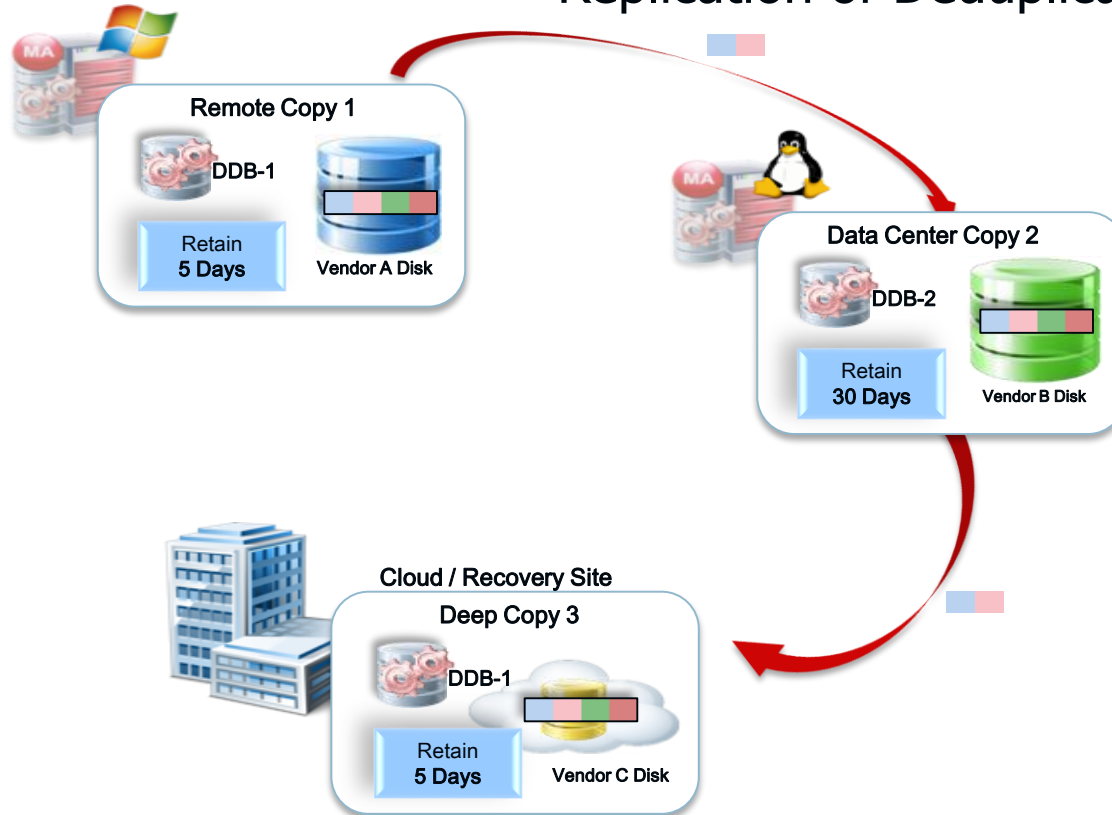
Everything deduped:
Synthetic fulls, global and aux copies,
tape and cloud copies



Integrated with encryption
and compression
No catalog changes

Integrated D/R – DASH Copy

Replication of Deduplicated Data



Resiliency

- Bandwidth Throttling
- Restart-ability
- HTTP/S security
- Job-Based Confirmation

High Performance

- No Rehydration
- LAN-Mode or Cache Mode

Management

- Independent Copy Retention
- Job Aging Controls
- Reporting

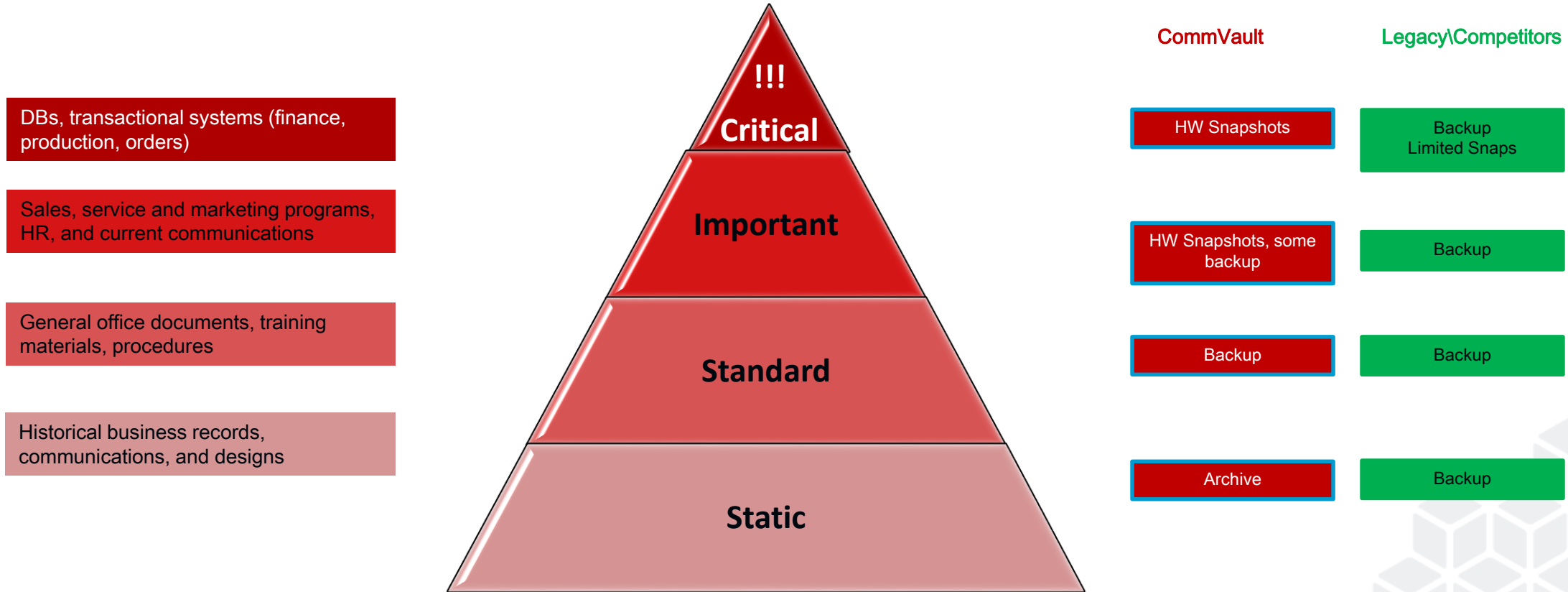


Snapshots



"Custom-Fit VM Protection" is Critical

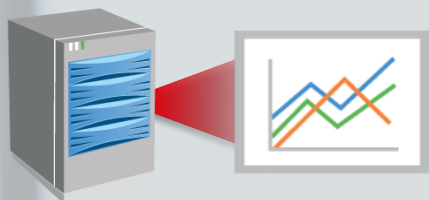
Different VMs require different strategies



**Data size and
complexity**



**Constrained system
resources**



**Manual protection
burdens staff**

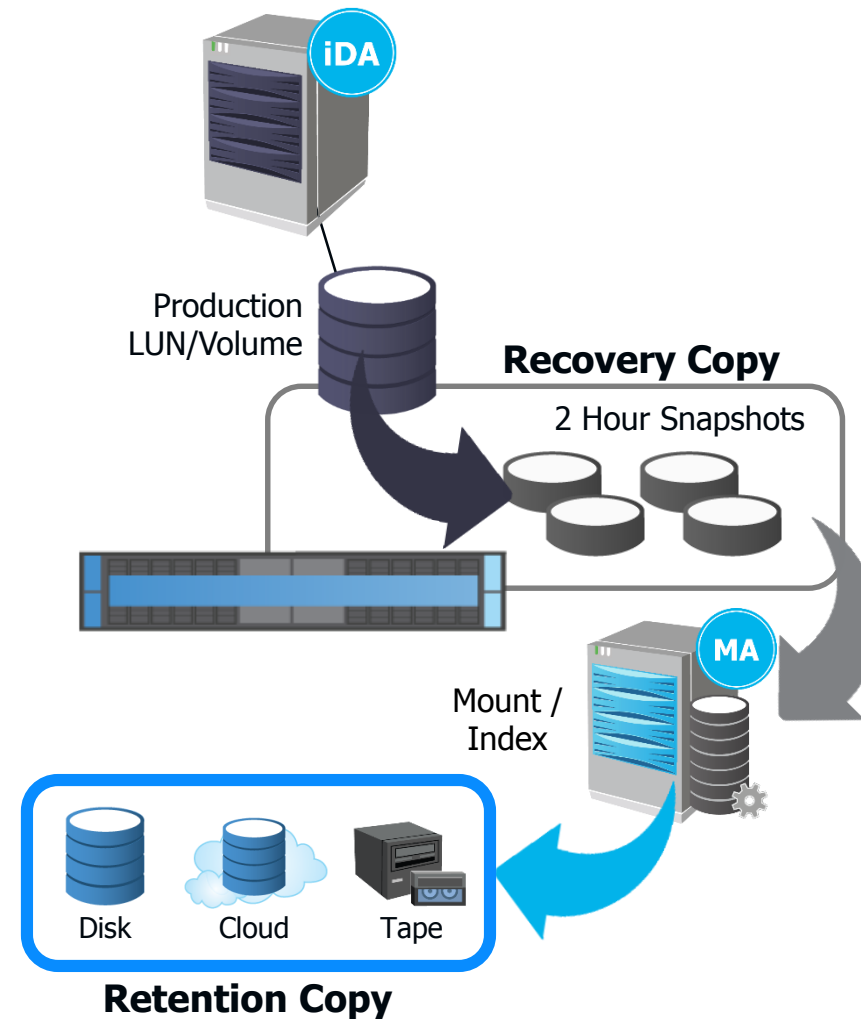


WHY MANAGED SNAPSHOTS ARE NEEDED



IntelliSnap Technology

- Rapid Protection – Create application-consistent recovery points using hardware-based snapshots
- Rapid Recovery – Hardware snapshot rollback for fast recovery of large data sets
- Granular recovery from snapshots for files, VMs, databases
- Mount snapshots for secondary workloads



Caveats of a Manual Approach to Snapshots

Where manual snapshot management breaks down

Virtual machines
Application/OS upgrades

Manual integration required
Orchestration based on scripts

Hardware refresh cycle
Capacity requirements
Disparate vendor toolsets



How IntelliSnap® technology resolves key snapshot challenges

Hypervisor integration
Application/OS integration

Fully automated execution
Workflow automation for custom tasks

Common approach across vendors
Storage array integrated
Automated storage discovery/updates

Caveats of a Manual Approach to Snapshots

Where manual snapshot management breaks down

No integrated reporting
Manual capacity planning
Isolated alerting

Cross-team ownership
Staff co-ordination issues
Limited granular recovery
Security concerns



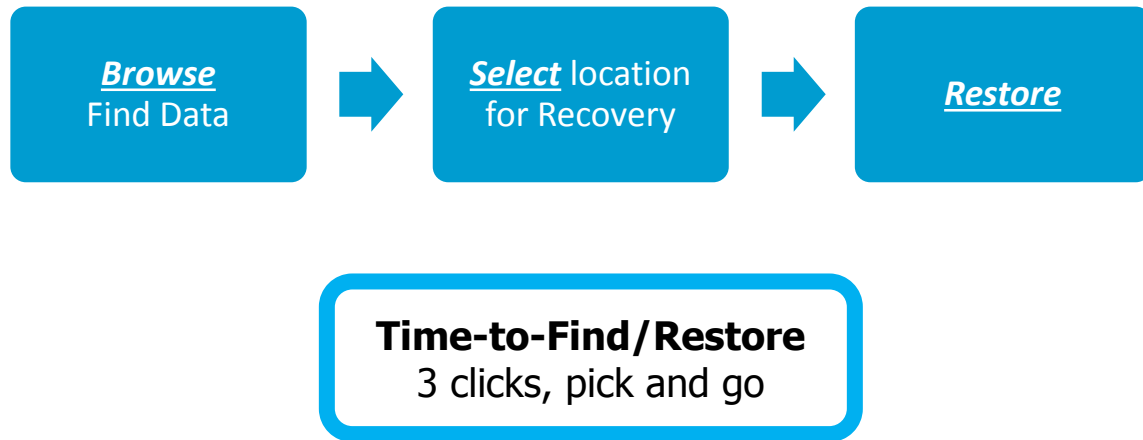
How IntelliSnap® technology resolves key snapshot challenges

Full suite of reports for management and planning
Comprehensive monitoring and alerts

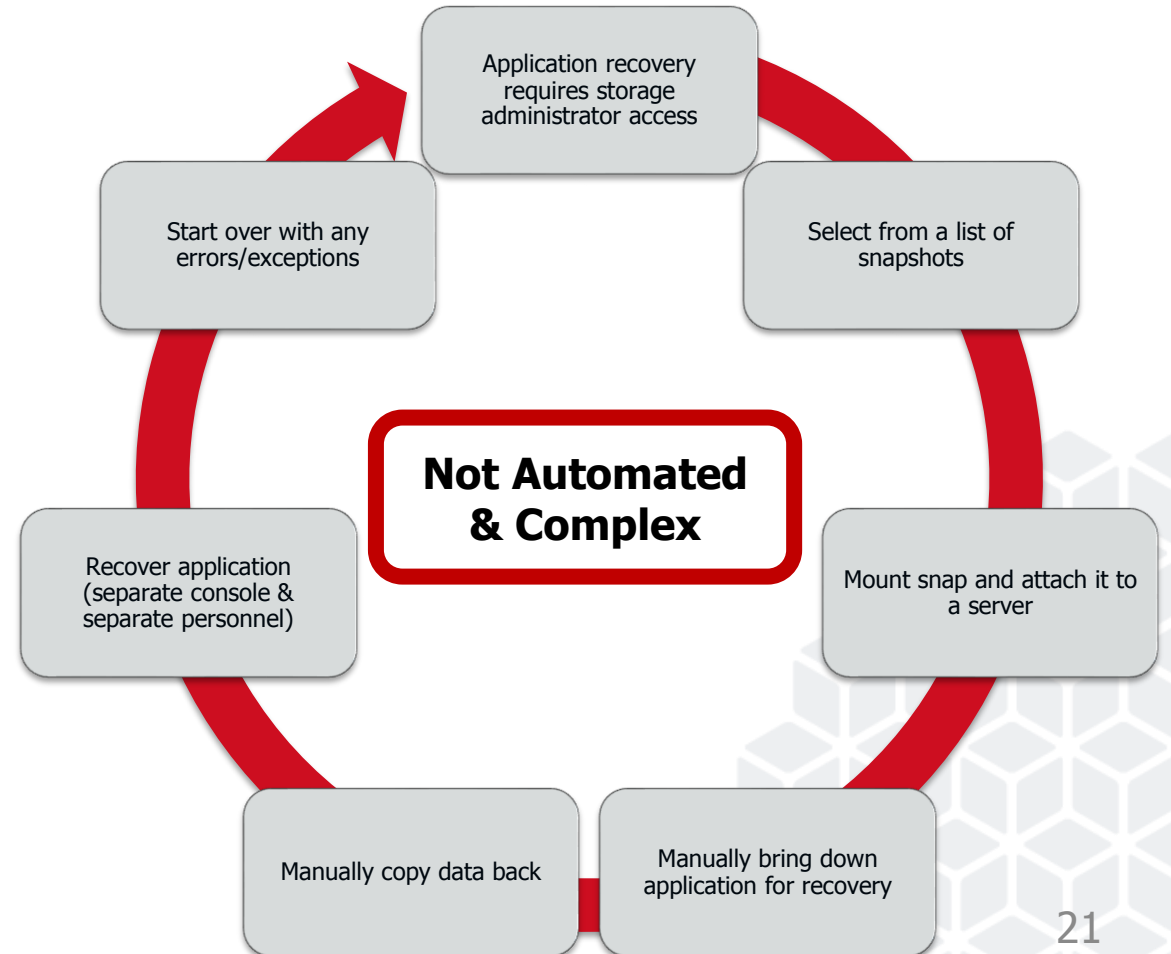
Ownership delegation
Full accountability
Full granular recovery

True Granular Recovery

IntelliSnap Process

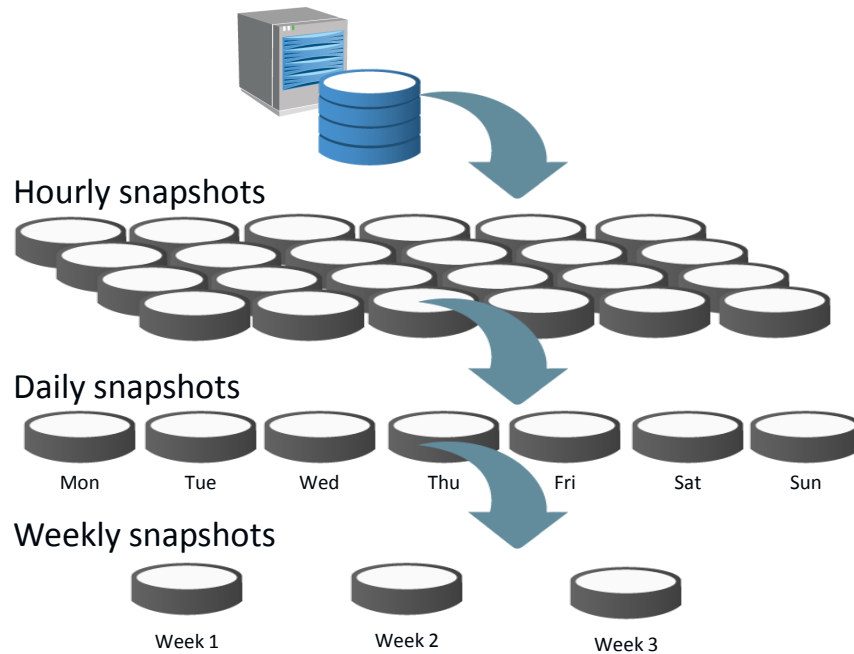


Typical Array Tool Process



Policy Based Retention

Operational Recovery offers more than just rapid recovery



Example Tier 0/1 Policy

- Operational recovery requirement of 1 Hour RPO
- Hourly IntelliSnap operations, retaining snapshots for 24 hours
- Retain one snapshot per day for 7 days
- Retain one snapshot each week for 21 days

IntelliSnap Technology Hardware Ecosystem



IntelliSnap Application Support



PostgreSQL

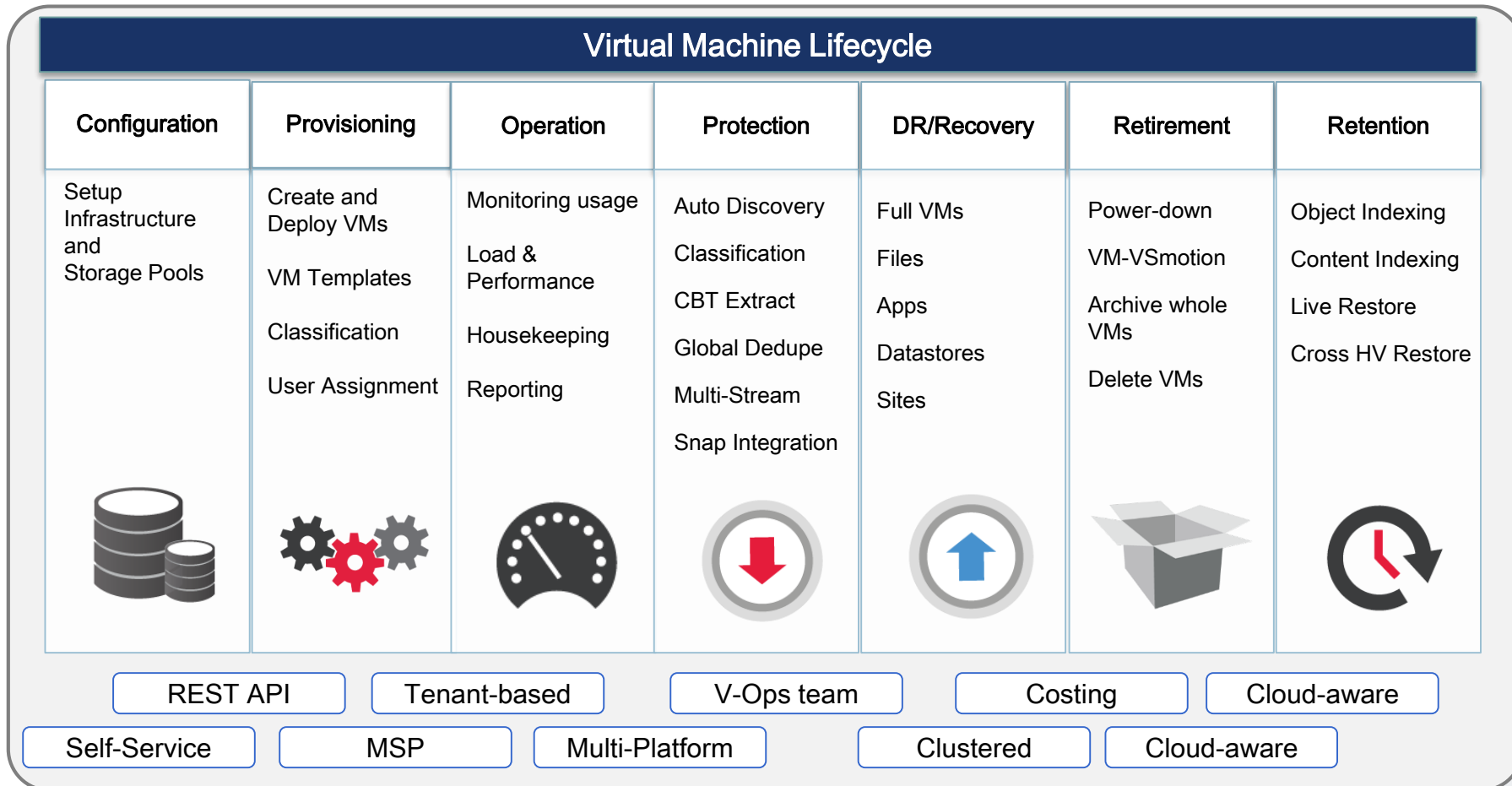




Cloud & Virtualization

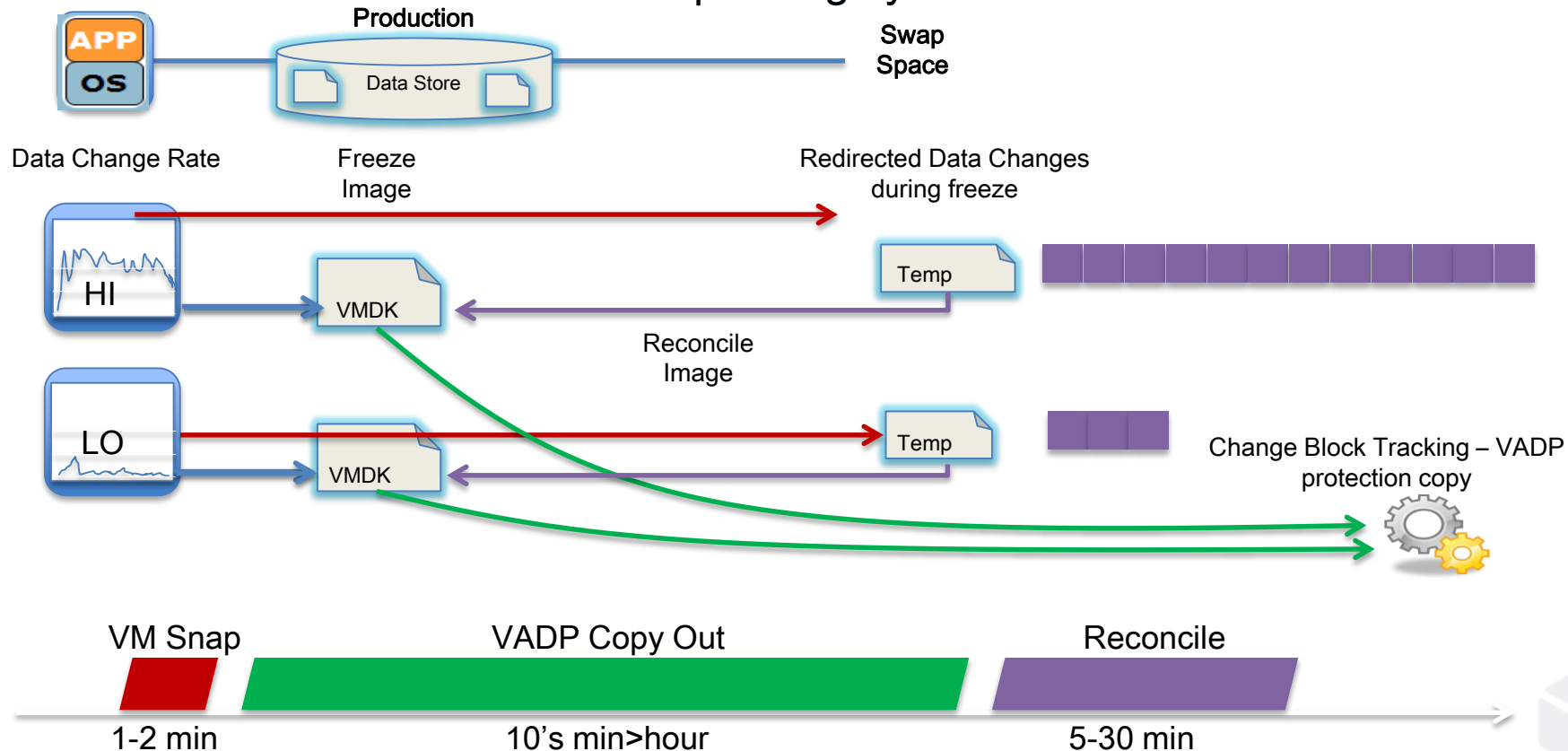
Virtualized environments Management

The best in class in the market



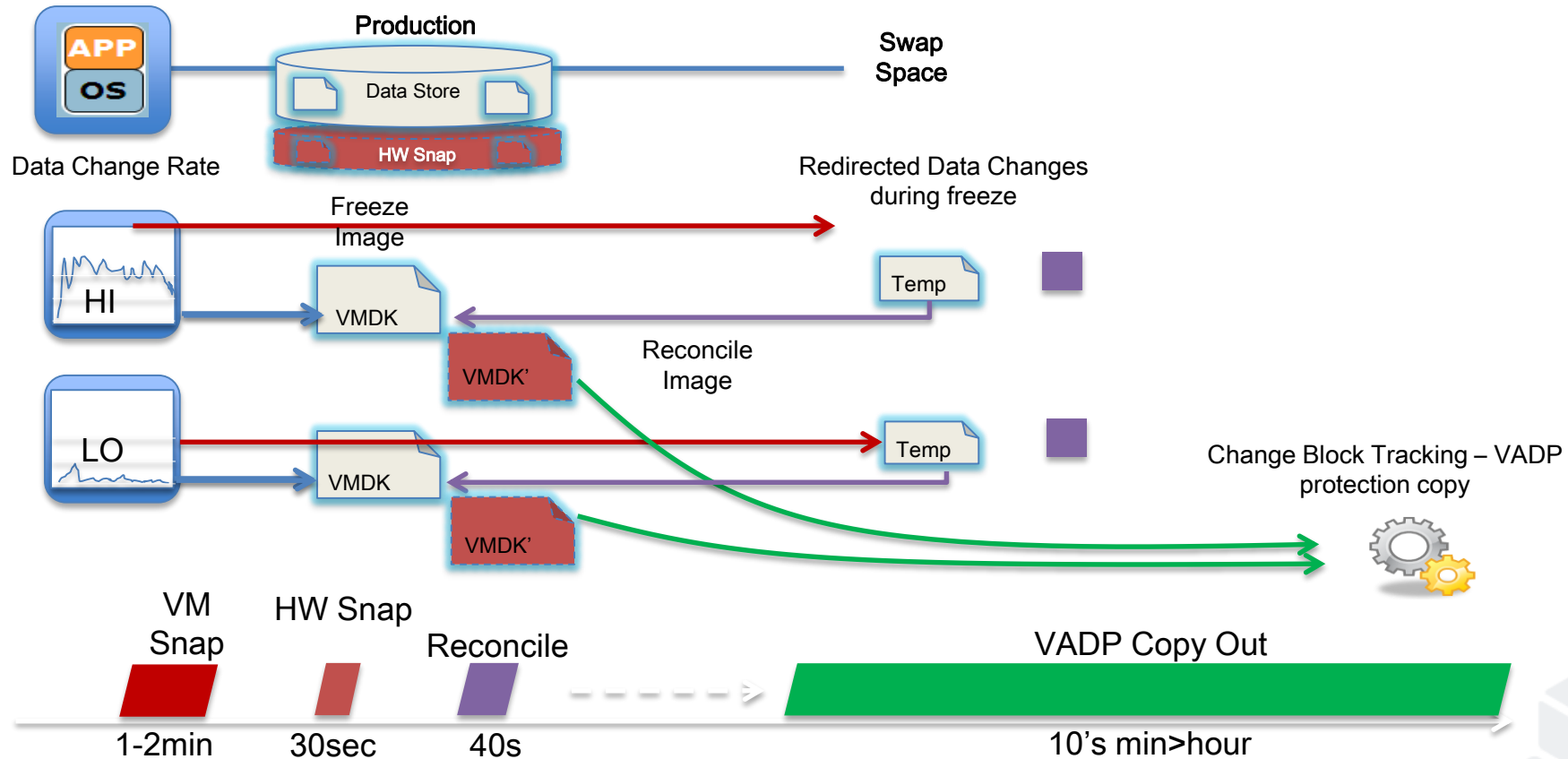
VADP Operational View

Duration and Impact highly correlated to VM I/O Workload



IntelliSnap + VADP Operational View

Unlock Power of the HW Snapshot to Collapse the Window





Public Cloud



A FAST, SMART CLOUD STRATEGY

Backup *to* the cloud

- Sending on-premise production data to cloud storage

Disaster recovery in the cloud

- Recovering productions workloads in the cloud

Backup *in* the cloud

- Protecting workloads in the cloud and moving to an alternative location

Test/Dev in the cloud

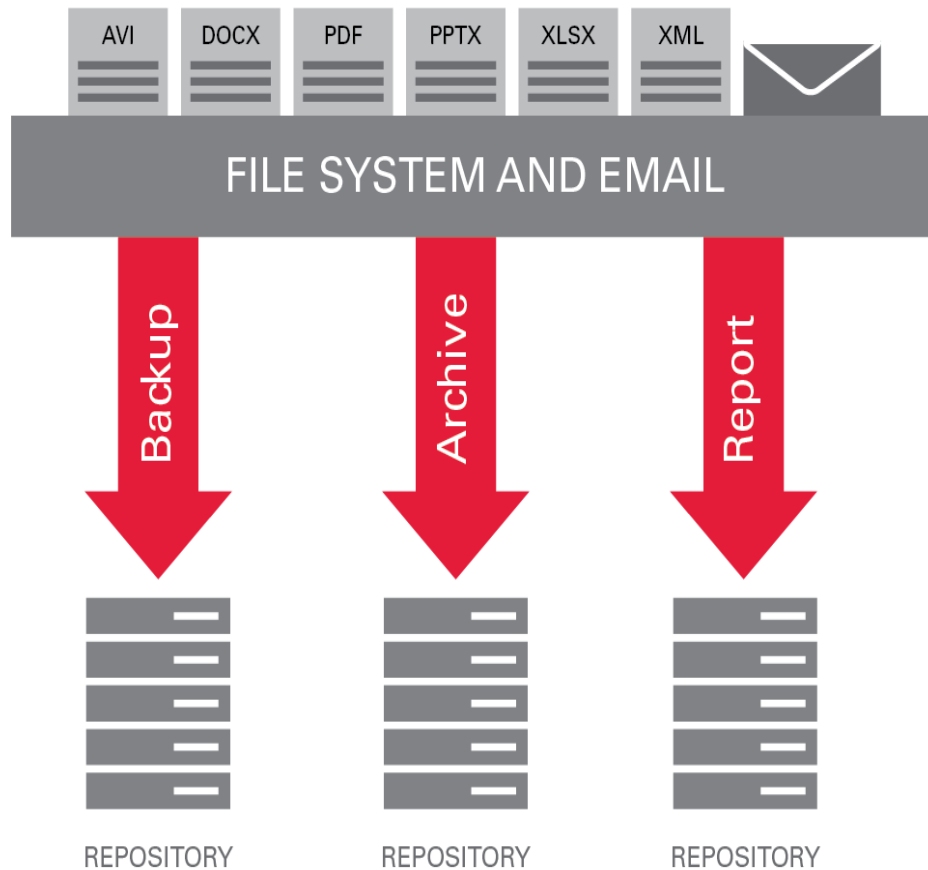
- Development in private/public cloud



Email & File Archiving

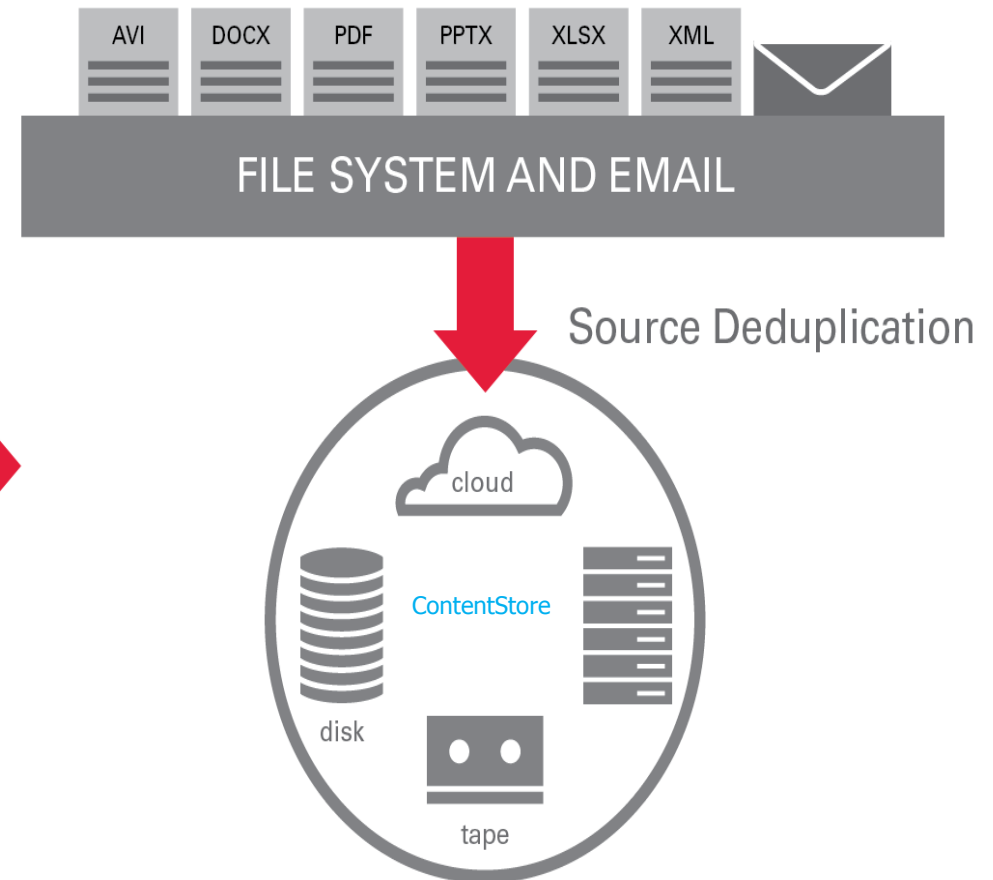
Intelligent, Content-Aware Data Retention

LEGACY AND COMPETITORS



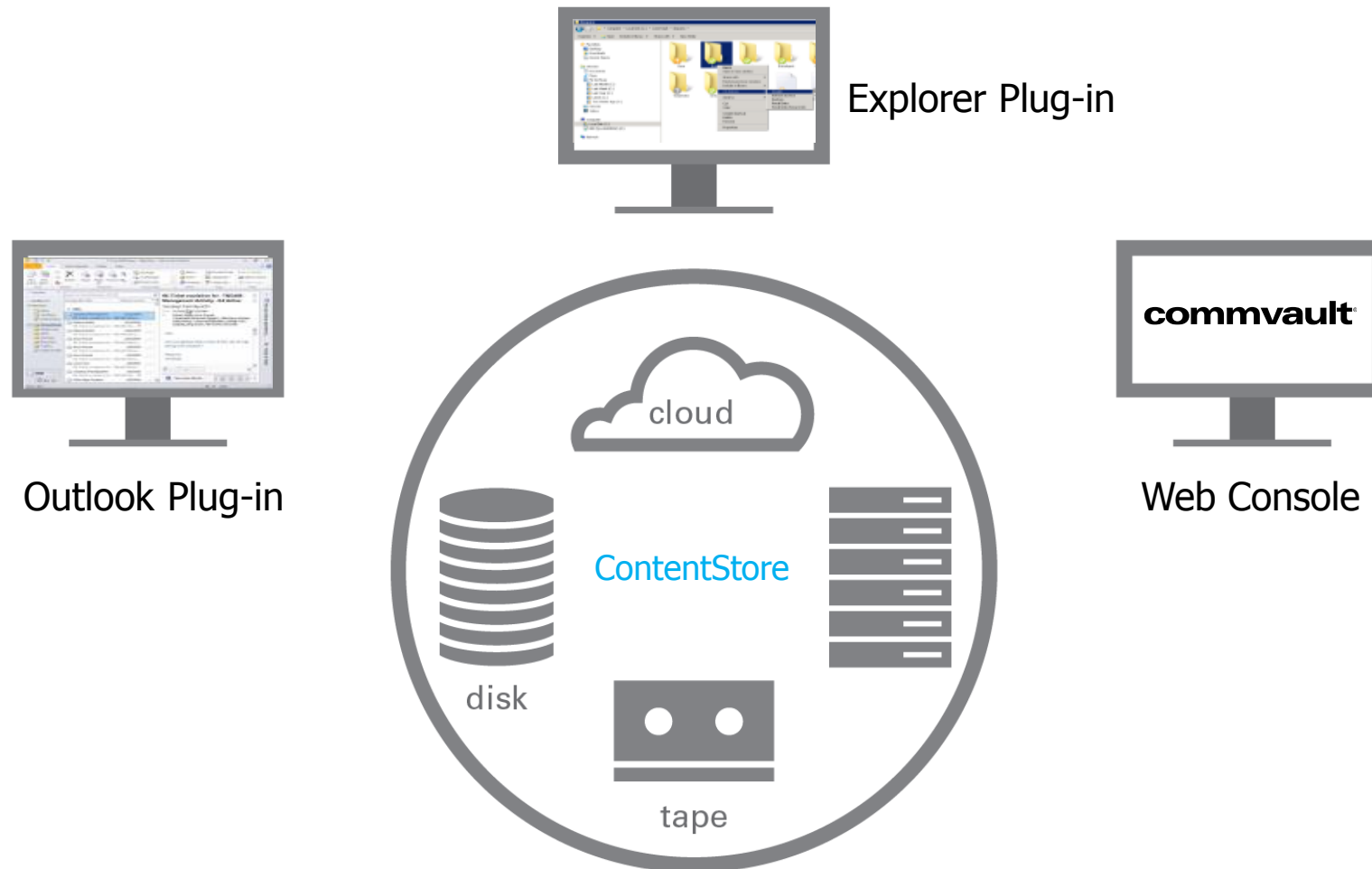
2x faster backup
and archive with
50% the impact

ONEPASS™



End-User Self-Service Access

Dramatically improve employee productivity and reduce IT burden





eDiscovery and Compliance



eDiscovery & Compliance Search

Purpose-Built Search Interface

- Self-service
- Reduce search time from hours to seconds for compliance teams
- Eliminate IT burden
- Single view into all ESI

Advanced Search

The screenshot displays the 'Advanced Search' interface with the 'Email' tab selected. The interface includes a top navigation bar with tabs: Email, File, Discovery, Client, Keyword, Query Builder, Common, Search Options, and Summary. Below the tabs, there are two rows for defining search groups. The first row has a 'Group Operator' dropdown set to 'AND'. The second row has an 'Inter Field Operator' dropdown set to 'AND' and an 'Add Group' link. Below these are six search criteria rows, each with a dropdown menu for the field name, a text input for the search term, a dropdown for the operator (OR), and a button with a plus or minus icon. The criteria are: Email Address, Subject, From, To, CC, and BCC. The bottom of the interface features a footer with the text 'Press Ctrl + Enter to submit the search' and two red buttons: 'Submit' and 'Cancel'.

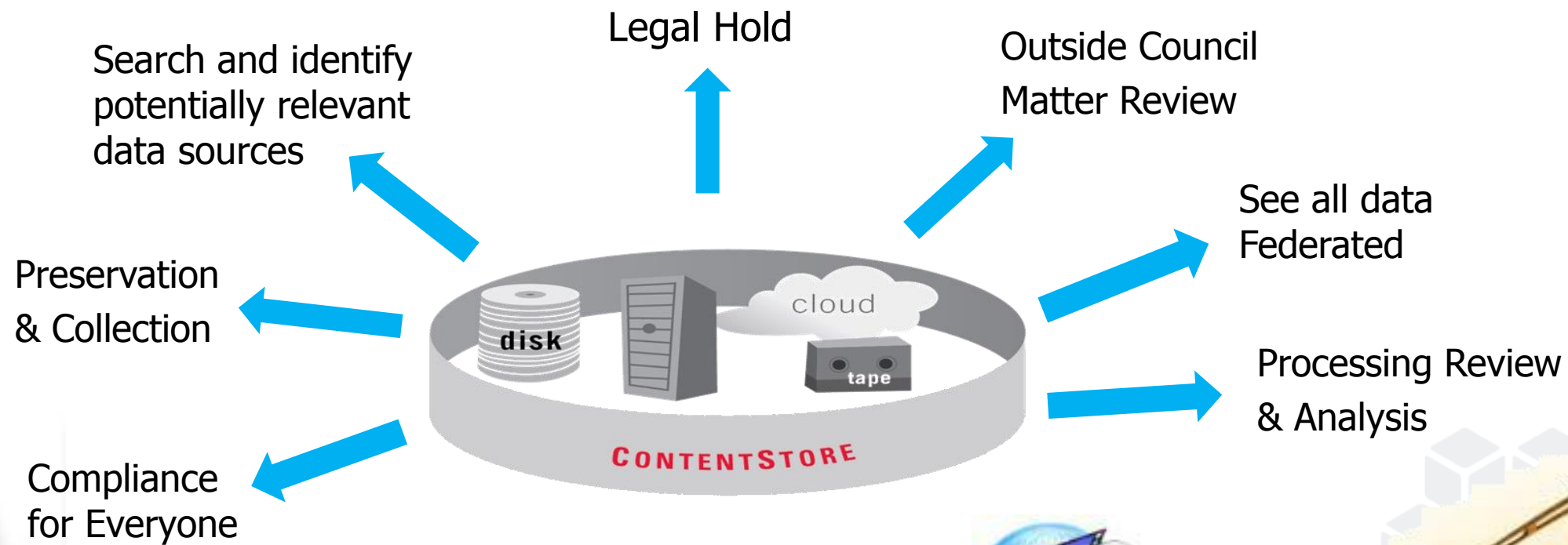
Field	Search Term	Operator	Action
Email Address		OR	+
Subject		OR	-
From		OR	-
To		OR	-
CC		OR	-
BCC		OR	-

Press Ctrl + Enter to submit the search

Submit

Cancel

Legal and Compliance



Why Early Case Assessment?





Endpoint

A man with dark hair and a beard, wearing a dark jacket over a light blue shirt and a dark tie, is looking down at a tablet computer he is holding. He is standing on a bridge with a stone railing. In the background, there is a cityscape with buildings and a body of water, all slightly out of focus. The overall tone is professional and modern.

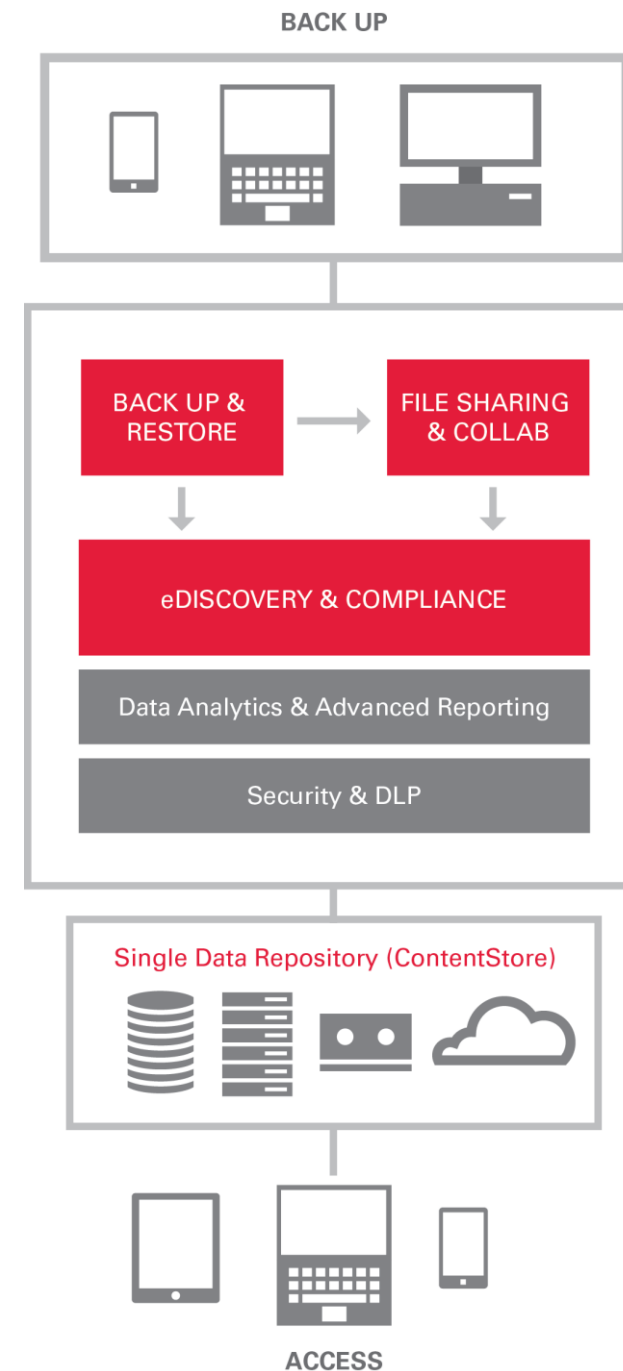
Enterprise data is on the move.

Today's information worker needs platform-agnostic, on-demand access to files from anywhere at any time and on multiple devices — PCs, tablets and smartphones.

Commvault Endpoint Data Protection

A comprehensive solution to protect and enable the mobile workforce

- Endpoint backup and recovery
- Security and data loss prevention
- Secure file sharing and collaboration
- Compliance and eDiscovery
- Data analytics and reporting

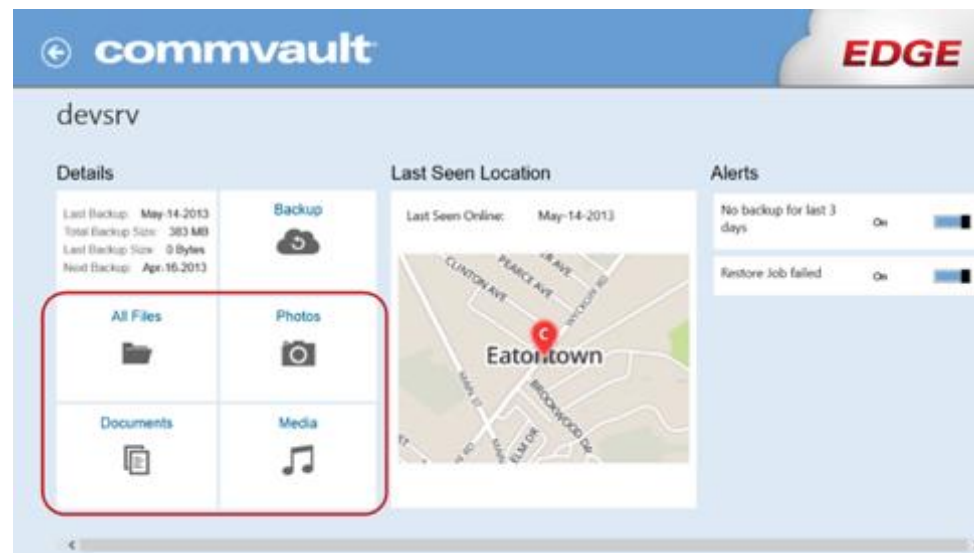
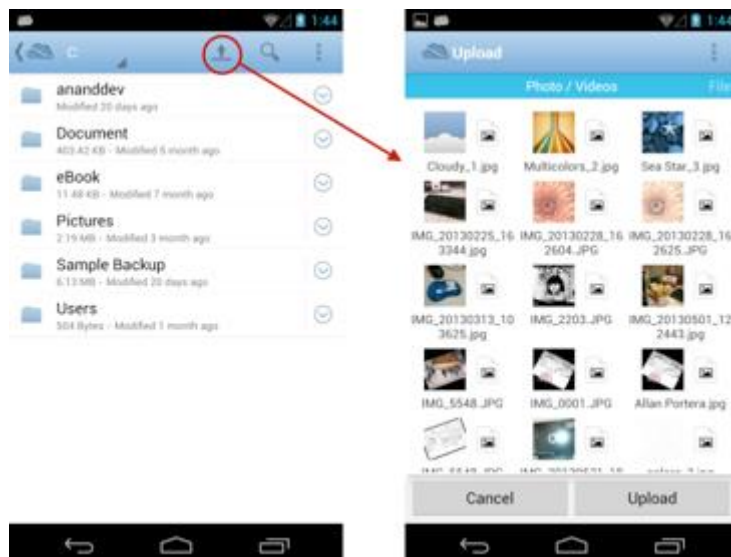


My Data

My Computers

Computers	Protected	Last Backup	Next Backup	Size	Actions
devsrv	●	Mar 07, 2013 05:17:36 PM	Mar 07, 2013 09:00:00 PM	723.04 MB	Restore
Home-PC	●	Mar 07, 2013 05:16:18 PM	Automatic	891.96 MB	Restore
Work-PC	●	Feb 07, 2013 12:01:43 AM	Automatic	15.59 GB	Restore
Home-Macbook	●	Nov 20, 2012 02:23:51 PM	Not Scheduled	28.32 MB	Restore

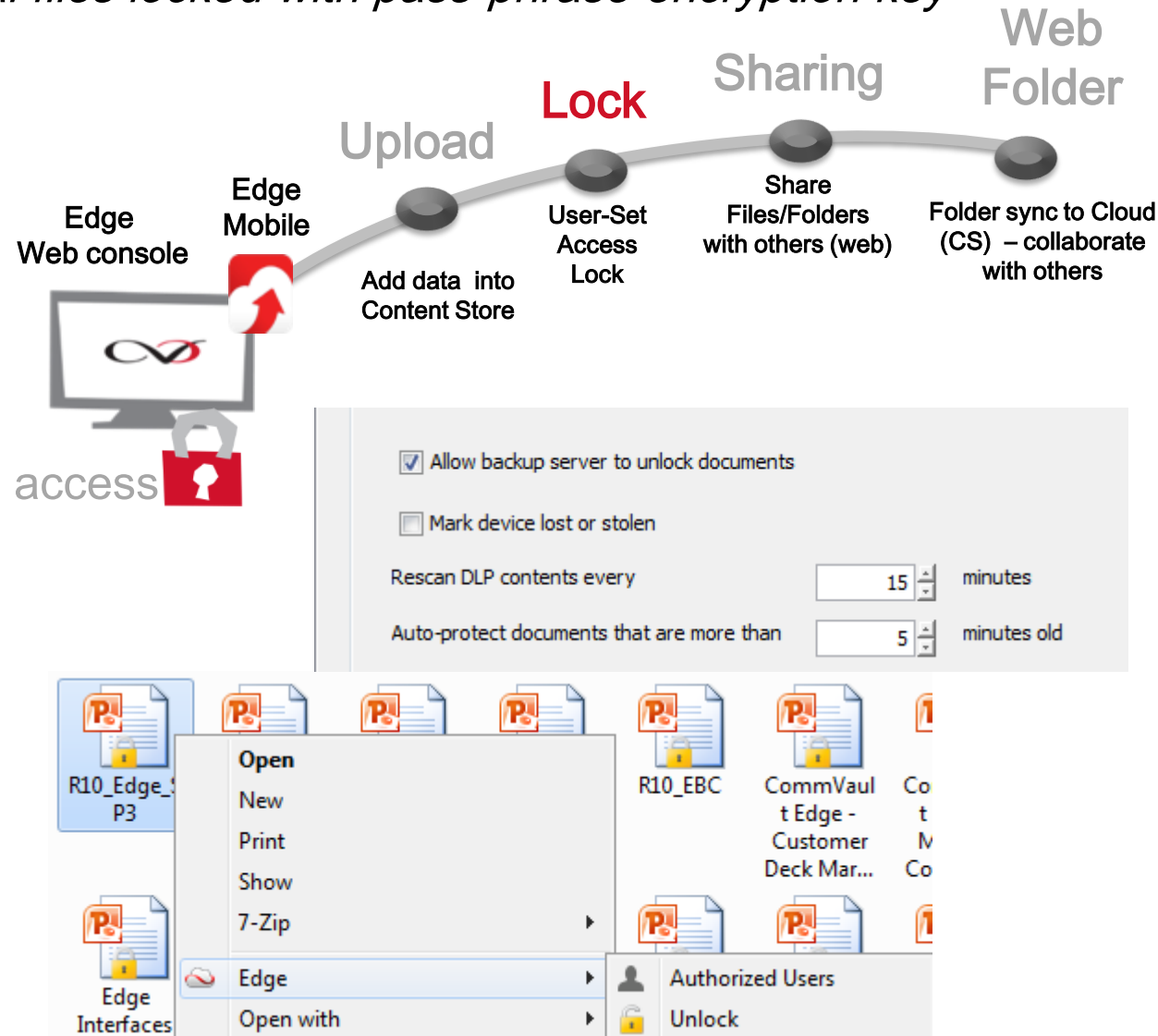
[+ Add New Computer](#)



Security: Lock and Erase



Local files locked with pass-phrase encryption key



- ✓ Added layer of protection on files against loss or theft of laptop
- ✓ Keys off protected content, automatically locks new / updated content
- ✓ Pass-phrase only required when offline or marked stolen
- ✓ Secure erase option after <n> days or stolen flag set

Enterprise File and Folder Sharing

Content owners can share content with peers at the file or folder level, granting read or edit access





The Commvault Vision

Activate Your Data

Create a common way to understand and act
on all data in an enterprise, whether it is stored on premise,
on a mobile device or in the cloud

