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RestoreManager/DataAnalyzer







About us

Leading Provider of Data Protection and Data Management solutions



Quick Facts

World class support organization: 95% Customer satisfaction



20+ year history protecting data for the world's largest organizations



Transparent pricing and great value



End-to-end support 24/7 commitment



1000+ global customers



TECHNOLOGY PROVIDER TO:

































Product Offering



Storage Snapshot Management



All Purpose Backup



Open Hypervisor & Container Backup



End-Point SaaS



Application-aware automation of storage array snapshots, replication and clone copy processes. Technology OEM'd by IBM as Spectrum Copy Data Management.

Protection



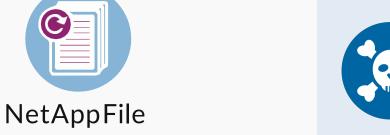
An efficient and flexible allpurpose data protection solution supporting disk, tape and cloud.



Data protection for open virtualization platforms such as RHV/oVirt, Nutanix Acropolis, Citrix XenServer, Oracle VM and KVM, among others.



A data protection and file sharing solution for the mobile workforce, focused on desktops, laptops and mobile devices, and cloud-based data such as Office 365 and Box.





CryptoSpike Ransomware detection and recovery



RestoreManager

File index, search, restore and Analytics











What?

Restore Manager is a scalable NetApp File Catalog with high performance file indexing, search and restore capabilities for NetApp file environments

Why?

- Easily locate and recover files on NetApp storage
- Support user restore requests, legal search, compliance audits, etc
- Manage Snapshot, SnapVault and SnapMirror schedules and retention times
- Restore one or more files to original or alternate location
- □ Highly scalable solution
- Uses ONTAP SnapDiff protocol











NetApp-Centric Solutions







CryptoSpike

Ransomware detection and access transparency



RestoreManager

File Catalog, Search and Restore



DataAnalyzer

File Data Analytics

Licensed per array at very affordable price-points









NetApp: Ransomware detection and protection



Real-time detection of ransomware on Net App file systems

Stops spread of infection with automatic user blocking

02

One-button restoreof affected files from NetAppsnapshots

Access transparencyfile accessauditing (who touched what files)

04







NetApp: Ransomware detection and protection



Blacklist

- Blocks known ransomware signatures and file types.
- Updated automatically.
- Filters can also be added manually.



Whitelist

- Blocks all files EXCEPT allowed file list.
- Good security but limits types of files.
- Effective when applied at a granular level (e.g. an accounting folder allows only Excel files).



Learner Module

- Monitors user behavior on file system to detect day-one threats.
- Detects unusual behavior (e.g. too many files changed in a period of time) and cuts off user access.



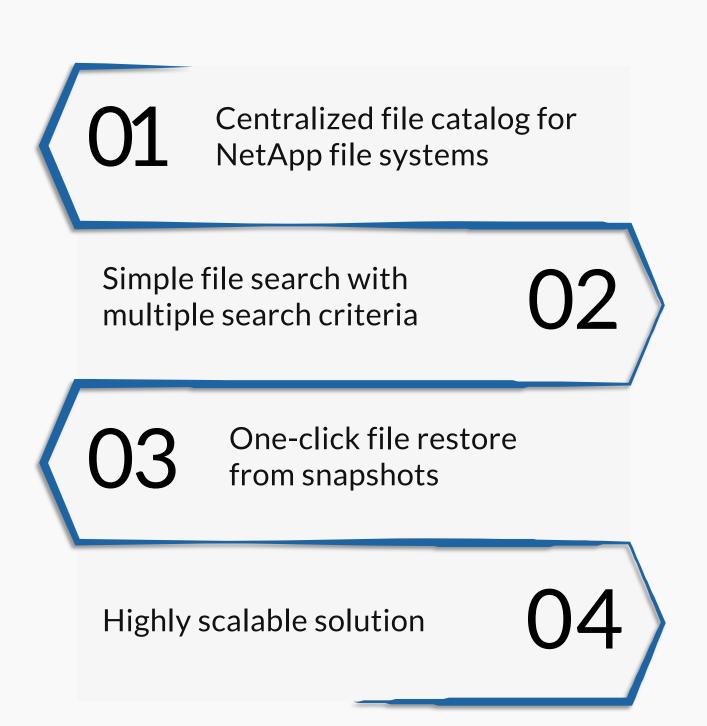






NetApp: File Catalog, Search and Restore









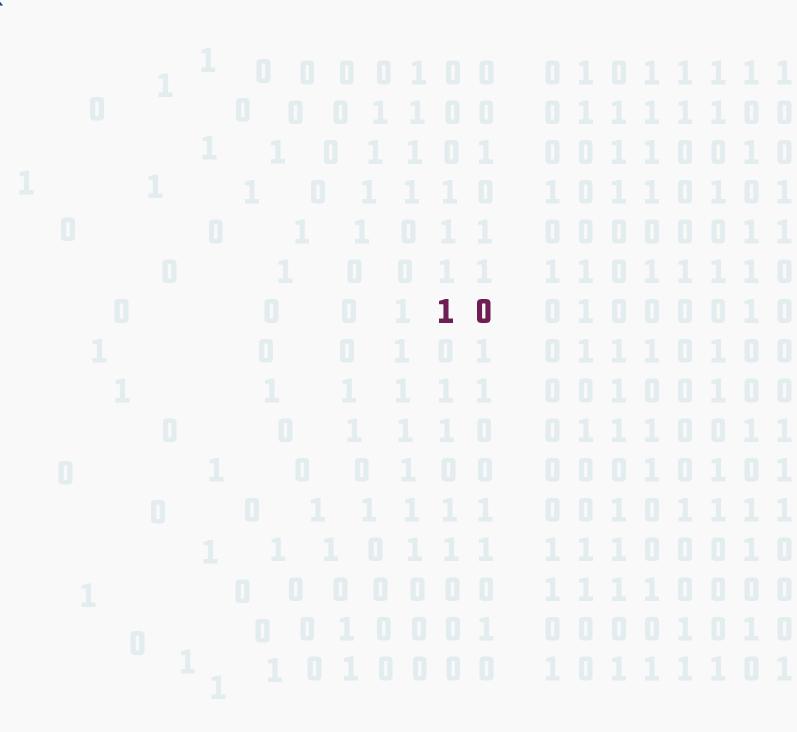
Finding a File Needle in a Data Haystack

Locating Files Can Be Almost Impossible

- Billions of files to search
- Multiple file locations and copies (Primary Snapshot, SnapVault, SnapMirror, AltaVault, Element OS)
- Multiple file versions

But Sometimes You Just Have To Find Them

- Critical file recovery
- Legal search
- Compliance / regulatory requirements

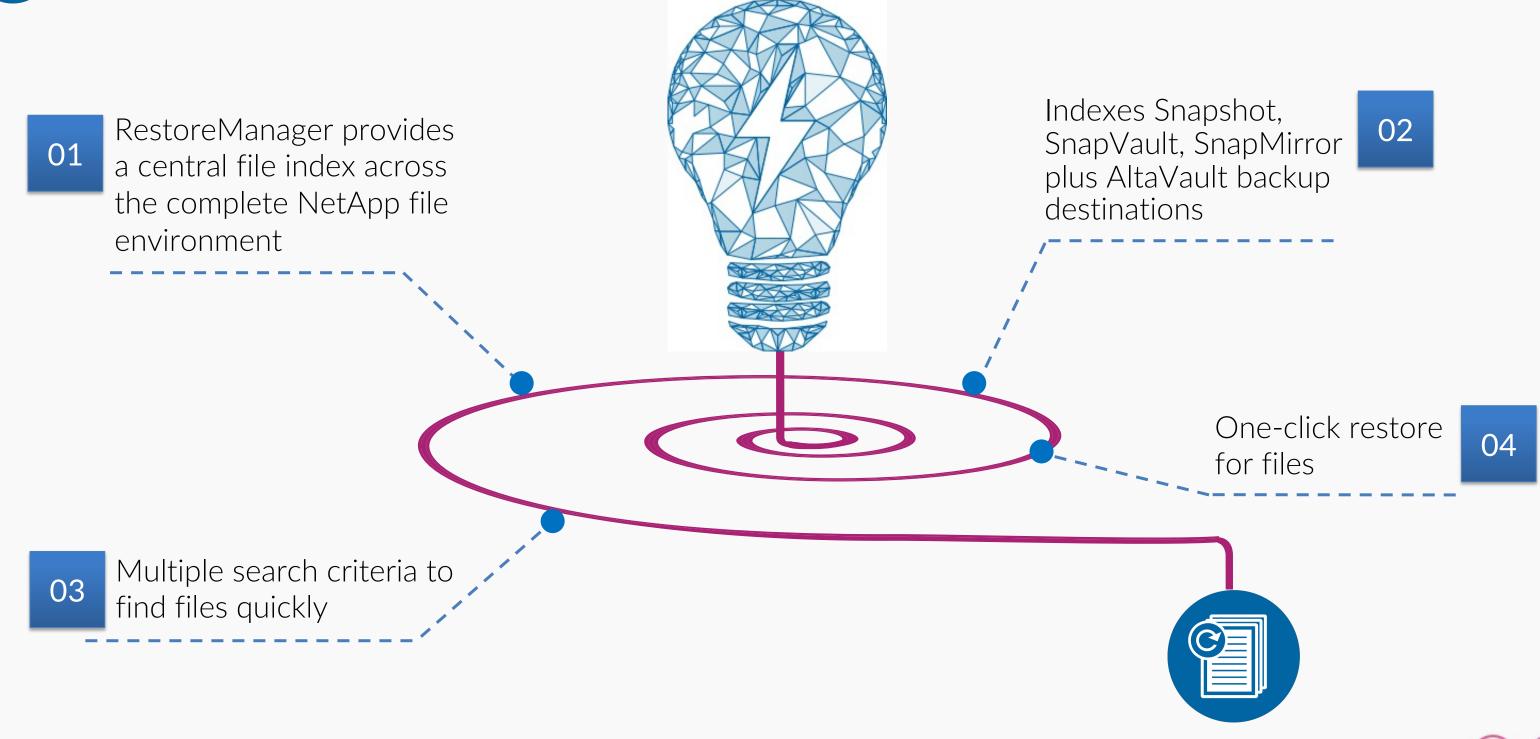






RestoreManager is the Solution









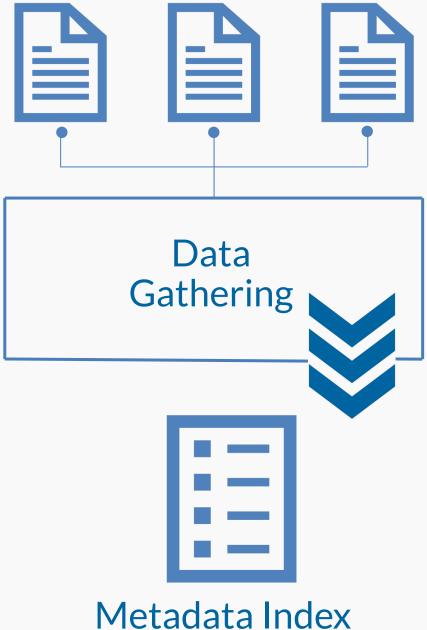




How RestoreManager Works?

- RestoreManager gathers file metadata using the NetApp SnapDiff protocol
- Data is indexed and searchable via an Elastic Search
 Database
- Search at any level: enterprise, cluster, SVM, volumes, folders, etc.
- Multiple search filters can be applied
 - Filter by file name, parts of file name or file path, with wildcards permitted
 - Filter by file type
 - Filter by deletion period or creation period
 - Filter by file size parameters

NetApp Enterprise











Other Features



One-click Restore

- Select one or more files from Search screen and click to restore
- Select version of file from existing snapshots
- Restore to original location or to alternate location



Scalable Architecture Easy to Deploy

- Uses ElasticSearch search engine for speed and scale
- Simple .OVA file deployment



Selective Indexing

- □ Index only the systems you want to index
- □ E.g. index only SnapVault destination volumes which have longer file retention









NetApp: File Data Analytics



O1 Detailed analysis of file data for full understanding of NetApp file environment

File type, age, size, last access, etc.

Determines file ownership for auditing and chargeback

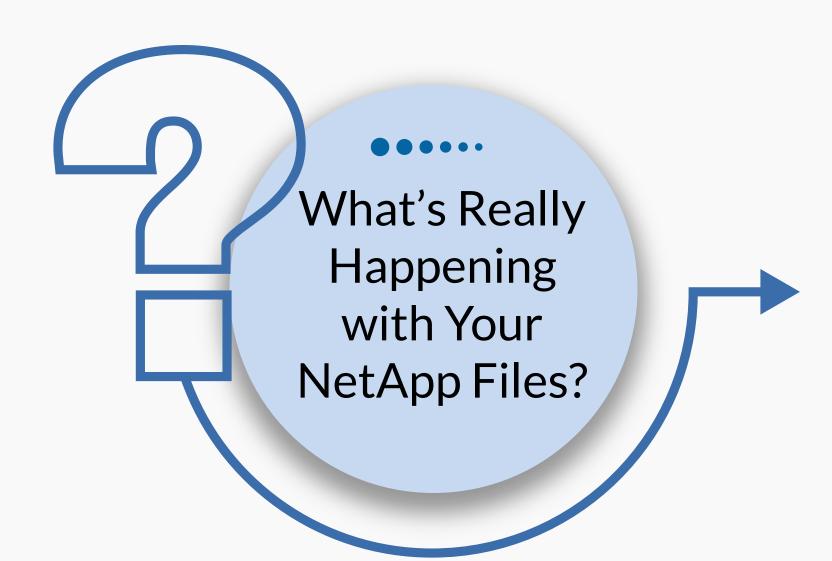
Helps uncover wasted storage resources

04









Can You Easily Answer These Questions?

- How many files do you have?
- What types of files are using up the most storage space?
- What percent of your files haven't been accessed in a year? Or five years? Or ten?

But Knowing the Answers is Valuable!

- Recover large amounts of storage space (some users have recovered as much as 80%!)
- ✓ Identify "bad citizens" storing too much old or unwanted data





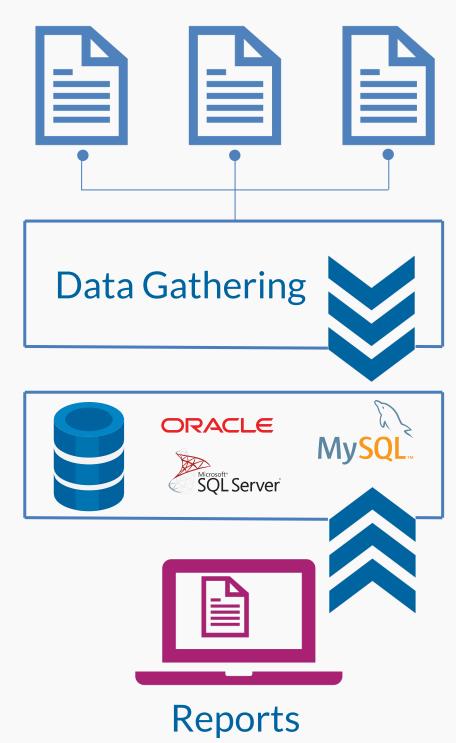




How DataAnalyzer Works?

- DataAnalyzer gathers file metadata across the NetApp file environment
- □ Data is stored in a database (MS SQL, Oracle, mySQL)
- Reports are visualized in Excel for easy data manipulation and sharing
- High-performance: up to 10 million files per hour, per volume
- □ Full scan required only upon first installation

NetApp Enterprise











DataAnalyzer Reports

Gain critical insights into files

- Number of files and total storage space used based on file type
- Age of file data
- Identify stale files that haven't been accessed over a defined time period
- Identify unused or under-used storage and VMDKs
- Report storage consumption by users and groups for audit and chargeback



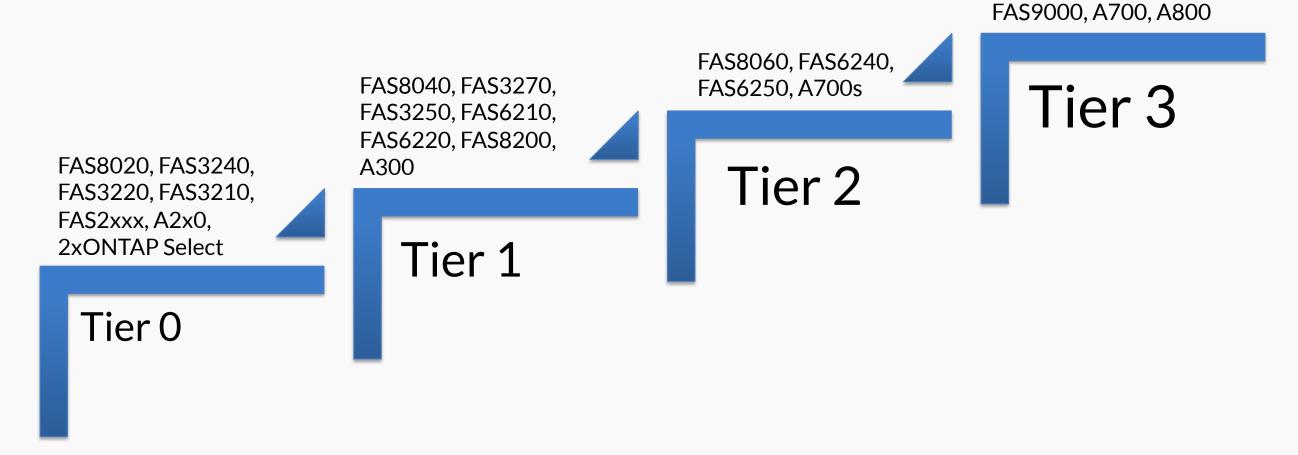








Simple and Affordable Licensing



- ✓ Licensing is per-controller node (e.g. dual node HA pair is two licenses)
- Licensing is tiered by NetApp system size (see tiers at left)
- No additional charge for number of files, amount of disk capacity, etc.

✓ License is subscription-based, priced per month, with minimum one-year purchase

FAS8080, FAS8080EX.

FAS6280, FAS6290,

All nodes in a cluster must be licensed, even if they are not using NAS protocols







Thank You!







