

Is Tape Backup Dead?

Panelists

- **Gary Berger, IT Director**
Ogletree, Deakins, Nash, Smoak and Stewart, P.C.
- **Tom Crowe, IT Manager**
Wyche Burgess Freeman & Parham, P.A.
- **Jay Dover, IT Director**
Liebert Cassidy Whitmore
- **John Green, CIO**
Baker, Donelson, Bearman, Caldwell & Berkowitz, P.C.

Jay's Backups

Liebert

- 75 attorneys
 - 50 staff
 - 3 offices
- BackupExec 12.0, agents on servers. Nightly and weekly incrementals to Drobo 16TB iSCSI NAS.
 - Bi-weekly sync/replication of DM doc libraries via FolderClone among 3 offices over MPLS to Buffalo TeraStation II 1TB NAS devices in each office.
 - Nightly brick-layering of Exchange accounts to Drobo
 - Monthly tape backups of Exchange, DM doc libraries, Summation and LegalKEY images on HP Ultrium 3 drive with 400GB tapes). Tapes stored off-site.
 - Annual end-of-year archive of all Exchange accounts to DVDs.

Gary's Backups

Ogletree

- 488 attorneys
 - 544 staff
 - 40 offices
- 100's of servers, Exchange, DMS, Elite, UltiPro, Extensity, Metastorm, Clarity, etc etc.
 - 2 data centers
 - MPLS network
 - Backup technologies include LTO, hard-disk, Backup Exec, SAN snapshots (LeftHand, EMC), backups over the wire.

Gary's Backups

Ogletree

- 488 attorneys
 - 544 staff
 - 40 offices
- Backup strategy depends on system.
 - DMS: SQL full to local disk nightly, SQL diff to local disk at 6/12/18, SQL log to local disk hourly. Backup Exec full weekly, Backup Exec DIFF hourly. 30 days retention for tape and disk. File server Backup Exec full weekly, diff hourly, snapshots on the half hour (retain for a week). Index server not backed up.
 - Elite: Nightly SQL full, hourly logs to disk. Nightly to tape. App servers backed up nightly to tape.
 - Internet: Hourly to disk, retain 30 days, nightly to tape, retain 30 days then montly for 12 months.
 - Exchange/Other: Nightly to disk, disk to tape, retain for 30 days, then monthly for 12 months.

Tom's Backups

Wyche

- 39 attorneys
 - 45 staff
 - 2 offices
- 19 virtual servers running on vSphere 4. All servers running from HP Lefthand iSCSI SAN.
 - Using Veeam Backup and Replication on a separate box with 3 TB of SATA storage.
 - Nightly backups of all servers, processing 1.3 TB nightly
 - Veeam is Exchange, SQL and VSS aware
 - Backups are retained for 14 days for all systems using synthetic fulls.
 - In process of configuring replication of nightly backups to an offsite datacenter using Veeam.

John's Backups

Baker Donelson

- 575 attorneys
 - 625 staff
 - 15 offices
- i365 Evault Software product (formerly InfoStage).
 - 268 backend servers running Evault software (directors) managing data safesets on storage called vaults.
 - In each of our 2 data centers we have 2 Nexsan Satabeasts for storage, each loaded with 42 1TB drives
 - SQL and Exchange servers have SQL aware or Exchange aware agents enabling online backups. Each server agent backs up to 2 vaults.
 - Retention policy is set to 10 daily safesets, 5 weekly safesets and an infinite number of monthlys. Most application servers run dailys and weeklys. File servers, SQL servers and Exchange servers also run monthlys.

Are Tape Backups Dead?

Backup Tape vs Digital Tape

- Tape Types – size, compatibility
- Device – external, internal
- Storage – onsite/offsite
- Cost per unit of storage

Backup Tape vs Digital Digital

- Internal vs External Backups
 - External – hosted vs internal
- Bandwidth – what's the size of your pipe?
- 24/7 access, scalability
- Cost per unit of storage

Comparison Points

- Reliability
- Availability
- Security
- ROI
- TCO
- Administration
- Bandwidth
- Hardware/Software
- Storage
- Data Restore Time
- Transport Time
- Retention -
Physical/Policy

Why Are We Backing Up?

- Disaster Recovery/Business Continuity
- Single File Recovery
- Single Email Recovery
- Regulatory
- Why not back it up?
- CYA

Decision Factors

- Business-driven – type of law practice
 - Regulations governing practice areas
- Size of firm, number of offices
- Number of remote users
- Technical - staffing, equipment, server room space
- Budget
- Geographical location
- Physical space / building
- Capacity
- Device

Is Tape Backup Dead?

The Verdict

It's not necessarily either/or ...

He's Not Dead Yet
(Insert Video Clip)