Pulse Comes to You 2012

Business without **LIMITS**



Deon George



Agenda

TSM "Cloud Service" features



- Customer, providing a internal backup service
 - Internal Backup Cloud Service
- Service Provider, providing a backup service
 - External Backup Cloud Service
- Service Provider, providing infrastructure
- Front Safe Web Portal

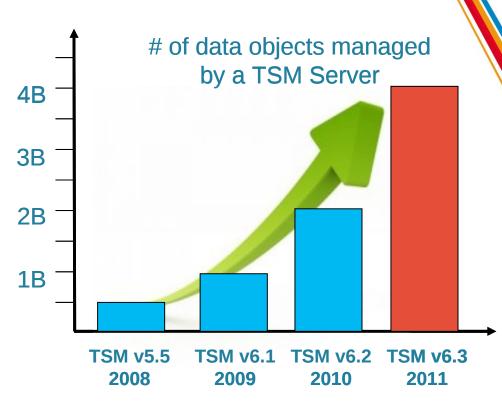


Double the capacity of the TSM Server – AGAIN!!

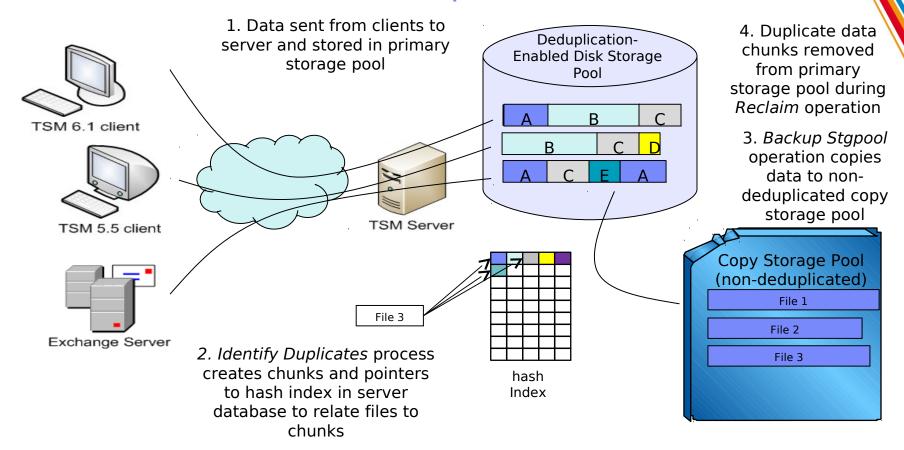
Data growth of 40%-60% per year?

NO PROBLEM

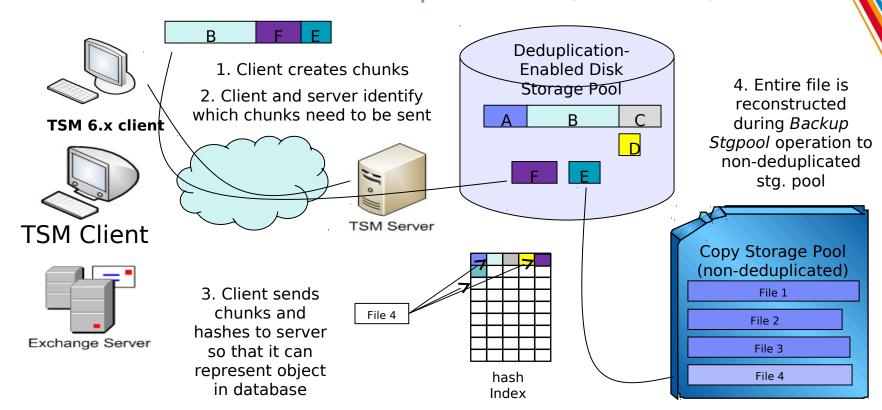
- The best-in-class in scalability just GREW 100% for the 3rd straight year
- Now managing up to 4 BILLION data objects in a single TSM Server
 - Files and chunks of de duplicated files
 - Databases
 - Images
- Single server architecture
 - No need for additional "media servers" as you scale
 - 87.5% reduction in the number of backup servers needed to manage 4B objects (vs. TSM v5.5)



TSM Server Side Data Deduplication (TSM 6.1)



TSM Client Side Data Deduplication (TSM 6.2)



In-flight data encryption using SSL

Extended platform support

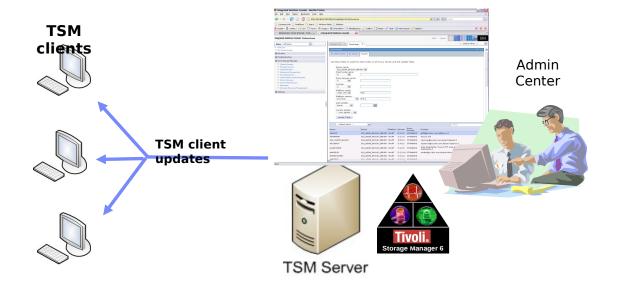
- Linux
- Solaris
- HP-UX



- Available in TSM 5.5: Windows, AIX
- Benefits:
- Secure data transmission between client and server
- 256-bit AES encryption for in-flight data
- Compatible with TSM server- or client-side deduplication
- Simplified deployment and validation of TSM server certificates

Client Deployment for Windows

BA clients (TSM 6.2)



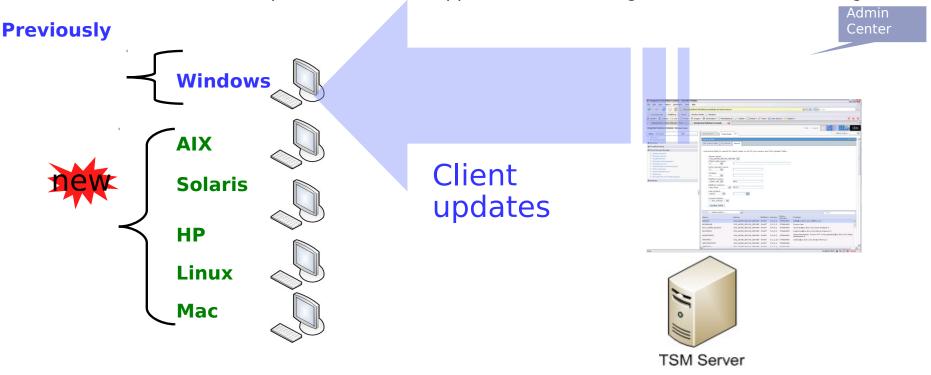
Benefits:

- Updating Windows BA clients is:
 - Less time consuming
 - More reliable
 - Less labor intensive

- \checkmark TSM administrator obtains Windows BA client maintenance release from the FTP site.
- From the Admin Center, the TSM administrator selects a maintenance level to be distributed to a list of existing clients. Define a policy and schedule.
- \checkmark The distribution and code updates will run automatically on the clients, based on the predefined policy/schedule.
- ✓ From the Admin Center, the TSM administrator can review the client distribution status.
- ✓ Windows Backup-Archive client maintenance distribution for upgrade from 5.x or higher to 6.x or higher.

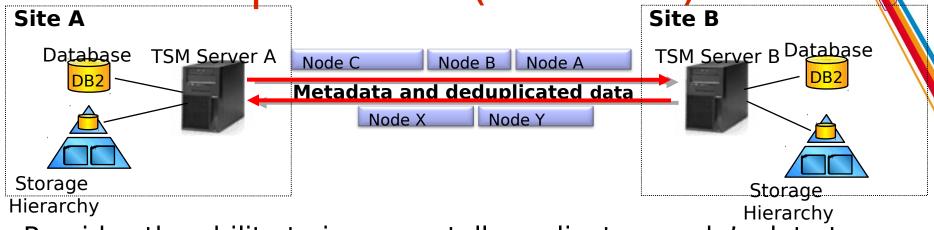
Deployment of Backup Archive Client Updates (TSM 6.3)

- Deploy client maintenance updates to non-Windows platforms
 - Previously only Windows
 - Now AIX, Solaris, HP-UX, Linux, Macintosh & Windows
- Allow client to upgrade to 5.5, 6.1, 6.2 or higher versions
 - Previously only allowed to update Backup-Archive clients to version 6.2
 - Now clients can be updated to lower (supported) versions e.g., 5.5 or 6.1, or 6.2 or higher



Business without **LIMITS**

Node Replication (TSM 6.3)



Provides the ability to incrementally replicate a node's data to a remote target server for disaster recovery purposes

- True incremental replication-
 - Only replicates directories and files that do not exist on target server
- Deletes data on target server that has been deleted on the source server
- Can recover client data directly from hot standby server
- Can use with or without deduplication
- Can have multiple servers replicate to one server
 - Remote vaulting without manual tape transfer
 - •Efficient use of bandwidth through deduplicated replication
 - •Allows hot standby at remote site

Tivoli Storage Manager Suite for Unified Recovery

- TSM Cloud Packaging and Pricing
 - Meets diverse data recovery requirements across the enterprise and scales to meet needs of any size organisation
- Value-based pricing and easy-to-measure licensing
 - Perpetual license for the storage capacity consumed
 - Pay for the amount of primary data being stored and managed (not for copies of backup data)
 - Costs can be reduced with built-in data deduplication and compression
- Uses the right data protection and recovery tool for each requirement
- Manages it all from a single user console

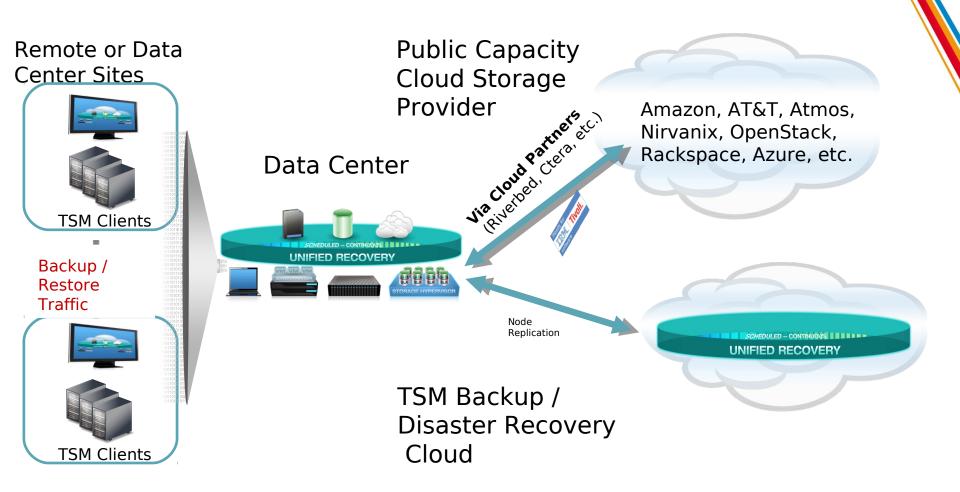


Putting it together (Customers)

- Node replication
 - Provides a highly available TSM service
 - Maintenance performed on Master, recoveries available from secondary
 - Enables DR testing from secondary without impacting recovery capability
 - More capability planned for future releases
- SSL Encryption
 - Protect data at sites via a public link
- De-duplication
 - Efficient for bandwidth (especially with compression)
 - Efficient for storage requirements (especially with compression)
 - Helps backup windows (especially with compression)
 - Reduces TB licensing (especially with compression)
 - Use tape for copies
 - Media protection
 - Data protection (re-hydrated)



Using the cloud as another tier

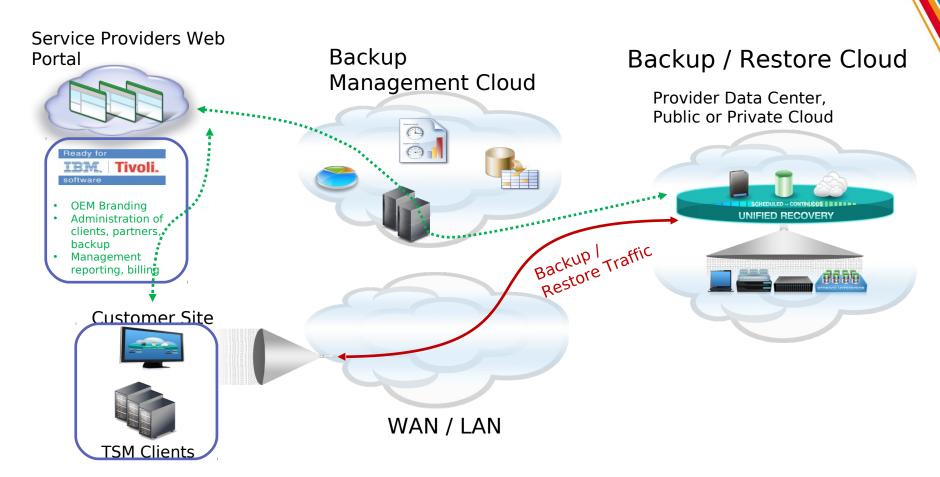


Putting it together (BaaS Providers)

- Node replication
 - Provides a highly available TSM service, customers can always recover
 - Maintenance performed on Master, recoveries available from secondary
 - Enables DR testing from secondary without impacting recovery capability
 - Provide the target for Node Replication
 - Customers Node Replicate to your infrastructure
 - More capability planned for future releases
- SSL Encryption
 - Provide a secure channel to your TSM infrastructure
 - Protecting customer data from being reviewed in transit
- De-duplication
 - Efficient for customers bandwidth (especially with compression)
 - Helps customers backup windows (especially with compression)
 - Use tape for copies
 - Media protection
 - Data protection (re-hydrated)
- Using Frontsafe



TSM as the Backup / Disaster Recovery Cloud

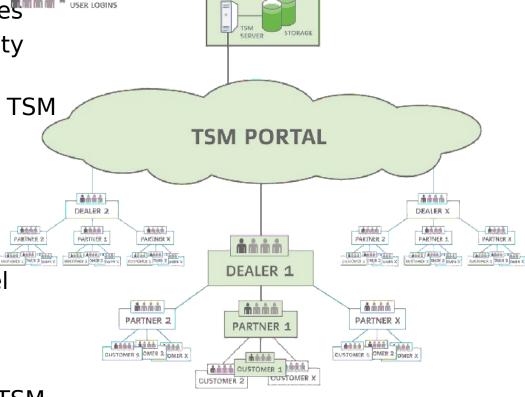


Introducing the go to market interface..



TSM Business Cloud Portal FRONTSA

- The Vision
 - Make TSM accessible to smaller customers
 - Deliver TSM as a service to small and medium sized companies
 - Build in business functionality
 - Secure a fast and effective business model for bringing TSM to market
- The Solution
 - TSM Portal in the Cloud
 - Built in OEM Partner channel setup through a network of partners and resellers
 - Not a technical tool but a business solution on top of TSM



Business without **LIMITS**

DATACENTER

(PORTAL OWNER

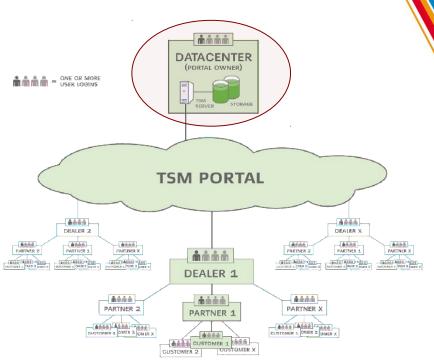
Who is Front-safe



- Business established in 2006
 - -TSM Cloud Service Provider in Denmark
 - including own datacenter, TSM infrastructure, TSM Cloud Portal, service and support, etc.
- Provider of the TSM Cloud Portal
 - enabling Datacenters/Enterprises to setup
 TSM as a public or private Cloud service

The datacenter (Portal Owner)

- IT Hosting and Service providers looking for new services for the market + Large Enterprises with had a service of the market + Large Enterprises with needs for setting up TSM as a Private Cloud
 - Deliver the infrastructure (buildings, Hardware, Software, TSM Portal)
 - Deliver TSM skills and know-how
 - Deliver 1st level support to
 Dealers, to direct Partners and to
 direct customers
 - Invoices Dealers, direct Partners and direct customers



The dealers

 Find and sell the solution to Partners who resell the solution
 to end customers

 Deliver 1st level support to Partners

Invoice the Partners

IDEAL DEALERS

- Telecommunication Providers
- Internet Service Providers
- Hosting Providers
- Any service provider with a reseller strategy

DATACENTER
(PORTAL OWNER)

TSM PORTAL

TSM PORTAL

DEALER 2

DEALER 2

DEALER 2

DEALER 3

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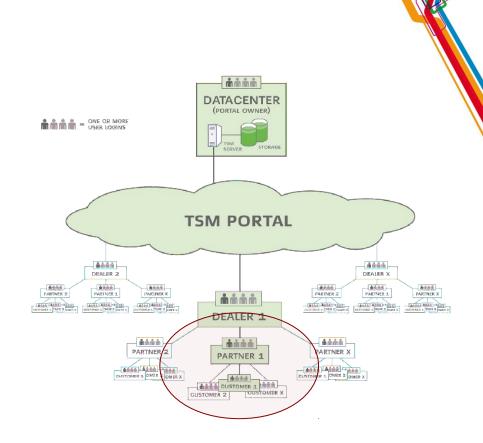
DEALE

The partners

- Find and sell the solution to end customers
- Deliver 1st level support to end customers
- Install end customer solutions
- Invoice end customers

IDEAL PARTNERS

- IT infrastructure providers
- Branch specific application providers
- Microsoft Business Partners
- Any service provider with a customer base



Why Front-safe is successful

- The infrastructure owner, enables dealer networks
- The dealers enable their channel partners
- The channel partners sell the capability to their customers
- All levels can sell to customers
- All levels can be branded as their own
- The portal enables
 - Non-technical sellers to provision access to a TSM environment
 - Provides the software for the customers
 - Provides billing data to the partner and dealers
 - Provides a communication channel from the customer to the infrastructure owner
- All licensed from IBM by capacity
 - Customers can be billed by capacity/node or a mix



Front-safe's success

- FRONTSAFE
- More than 10 datacenters in 7 different countries run the TSM Portal as Portal Owners
- More than 170 Dealers and Partners
- More than 3.000 end customers
- Close to 10.000 servers
- More than 1 PB of data (all disk)
- 2 TSM FTE's manage the TSM Infrastructure
- ~25 TSM Instances (5.5)
- Migrating to 4 TSM Instances (6.3)

"All of this achieved in markets where TSM was not represented before"



Questions?



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