

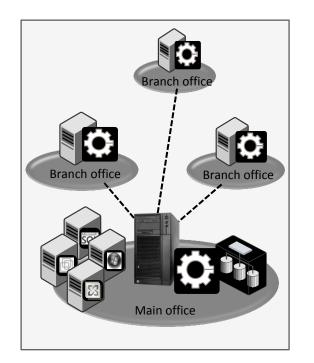


# Dell PowerVault DL2200 &

# **BE 2010 Power Suite**

**Owen Que** Channel Systems Consultant Dell

## **Customer Storage Challenge - Reduce Storage Costs**

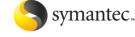


#### Your Customer's Storage Challenge

- Up to 70% of data is duplicate and hasn't been accessed in more than 90 days<sup>1</sup>
- 57% of midsize organizations increase storage growth by 11-30% annually<sup>2</sup>
- Data lifecycle management is becoming more challenging

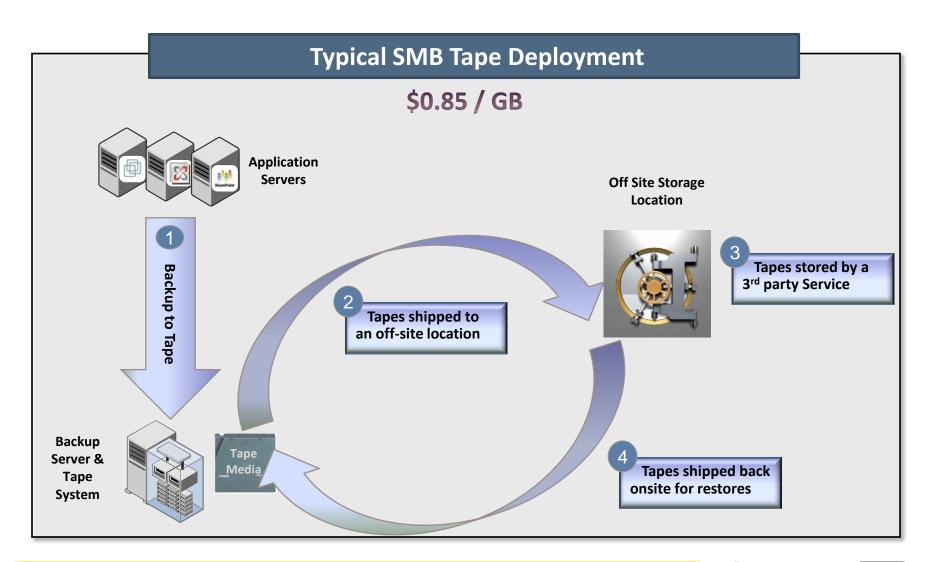
#### The DL2200 Opportunity:

- New Deduplication Option
- Improves Storage and Cost Savings
- Helps Reduce Backup Windows
- Adaptable To Any Customer's Environment



**Replace Tape with Deduplication** 

### **Customer Pain Points with Tape**



DL2200 powered by Symantec Backup Exec™ 2010: Replace Tape in the SMB



## **Dell Powervault DL2200**

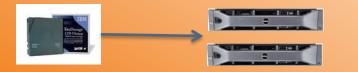
Powered by Symantec Backup Exec 2010 – integrated backup to disk solution



## NEW PowerVault DL2200 powered by Symantec Backup Exec<sup>™</sup> 2010

## Replace Tape with Deduplication

50% less expensive than similar tape solutions through deduplication



**Protect Virtual Servers** 

Source deduplication ideal for virtual

backups

## **Unified Archiving**

Eliminate file system and exchange email data growth problem via automated policy

## **Protect EqualLogic**

**#1 solution for backing up EQL** 

Native VSS Integration Script-less integration



## **Deduplication Everywhere**

Dell PowerVault DL2200 powered by Symantec Backup Exec<sup>™</sup> 2010



**Replace Tape with Deduplication** 

# **Replace Tape Solution with**

# Deduplication

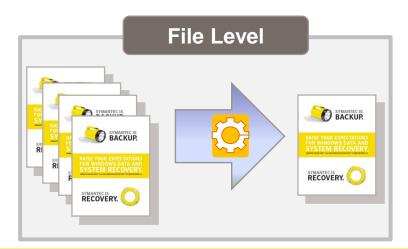
DL2200 powered by Symantec Backup Exec<sup>™</sup> 2010: Replace Tape in the SMB

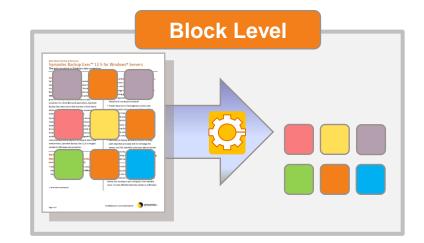


6

## Why dedupe?

- What are the benefits?
  - 1. Increase network bandwidth
  - 2. Free up valuable storage space
  - 3. Makes recovery easier
  - 4. Free up precious admin time to other more important tasks.
- What is the difference between file and block level?





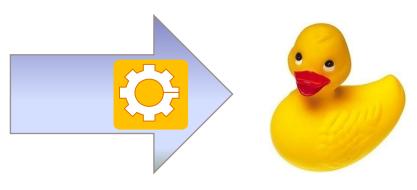
symantec.

Announcing Symantec Backup Exec<sup>™</sup> 2010: *Reduce Storage Costs* 

## **How Does it Work?**

• Deduplication?



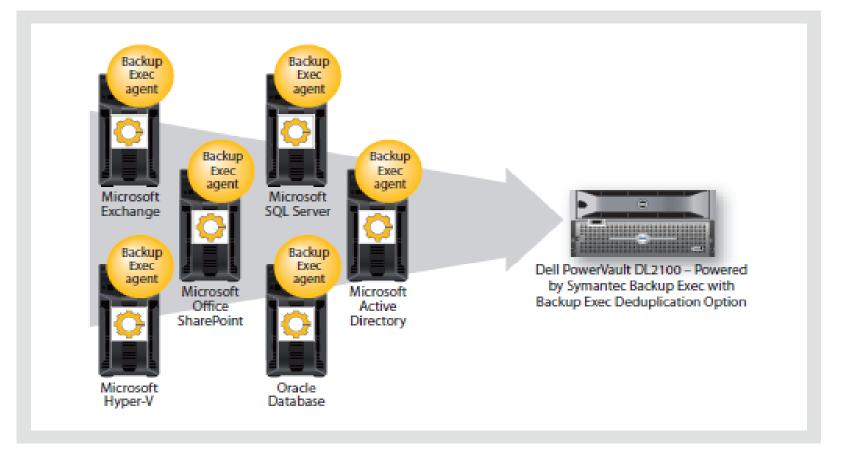


• What is the difference between file and block level?



DL2200 powered by Symantec Backup Exec<sup>™</sup> 2010: Data Deduplication

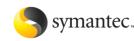
## NEW Deduplication Option Client Deduplication (Source Deduplication)



Client deduplication performed on the source servers is designed to reduce the amount of data sent over the network, helping optimize both bandwidth and storage usage

Note: Requires Deduplication Option on medias server and Remote Agent on each client/source

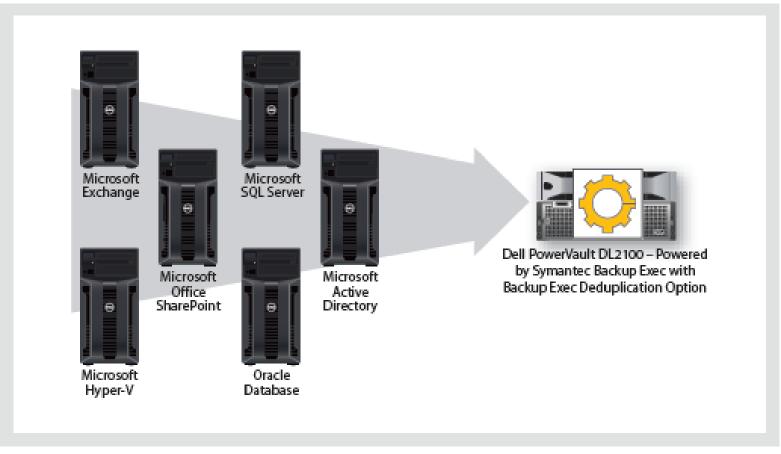
DL2200 powered by Symantec Backup Exec<sup>™</sup> 2010: Data Deduplication



.е

Dedupe is performed

## NEW Deduplication Option Media Server Deduplication (Target Deduplication)

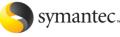


Media server deduplication performed on the Dell PowerVault DL2100 helps optimize storage while simplifying deployment in existing backup infrastructures

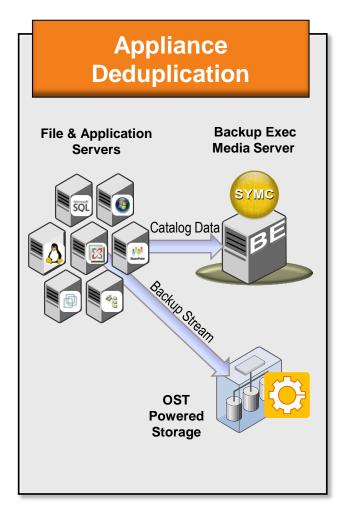
here
Dedupe is performed

Note: Requires Deduplication Option on medias server and Remote Agent on each client/source

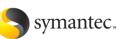
DL2200 powered by Symantec Backup Exec<sup>™</sup> 2010: Data Deduplication



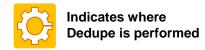
## **NEW Deduplication Option** *Appliance Deduplication*



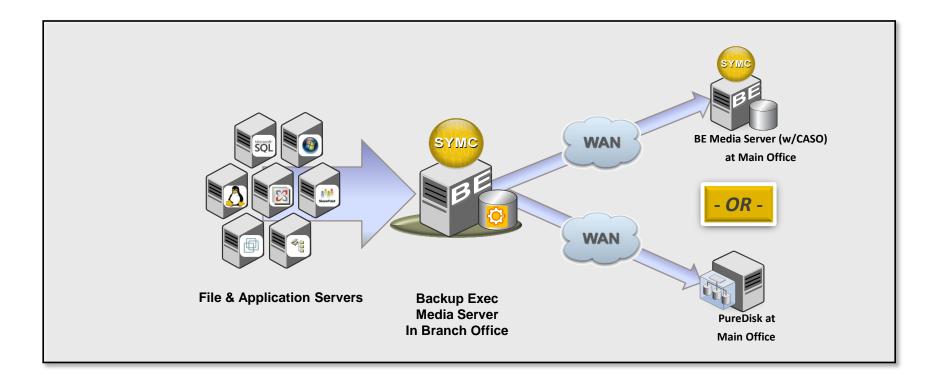
- Allows users to adopt 3rd party Open Storage (OST) deduplication disk devices
- Remotely controlling the data to be backup/restore using 3<sup>rd</sup> party Appliance Deduplication technology and report catalog data back to Backup Exec Media Server.
- Achieves faster backups to deduplication appliances via Symantec OST plug-ins enabled by Backup Exec 2010



# NEW Deduplication Option



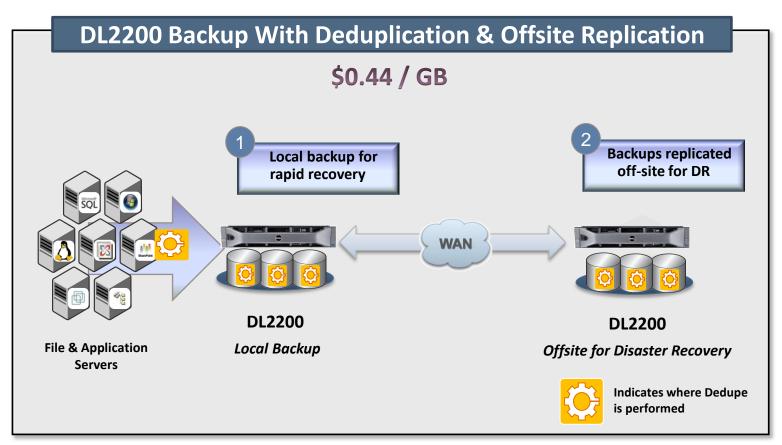
## Deduplication Backup Set Copy - DR & remote Office





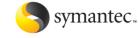
## **Replace Tape with DL2200**

**Deduplication and offsite disaster recovery** 



*Optimized Duplication*: WAN-optimized backup (only new deduplicated blocks are transferred over the WAN to the remote site)

DL2200 powered by Symantec Backup Exec™ 2010: Replace Tape in the SMB



## **DL2200:** Replace Tape in the SMB

SMB Use Case			
Primary Storage Today	500 GB		
Growth Rate	80%		
Storage @ 2 Years	1,620 GB		
Daily Change Rate	3%		
Data Sets Stored	Weekly, Monthly, Yearly		
Backup Storage Size	20,837 GB		

## **DL2200:** Replace Tape in the SMB



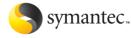


SMB Use Case	DL2200	LTO Tape
Solution Costs	\$15,000 (2 Systems)	\$12,400
Media Cost	NA	\$1,800
Off-site Storage Costs	NA	\$3,600
Storage <sup>1</sup>	33,750 GB (Deduplication)	6,400 GB (Compression)
Cost/GB	\$0.44	\$0.85

#### 

1. Assumes 15:1 Deduplication Ratio and 2:1 Compression Ratio

DL2200 powered by Symantec Backup Exec™ 2010: Replace Tape in the SMB



15

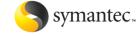
## **Comparing Deduplication Solutions**







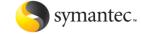
	Symantec DL2200	Data Domain	EMC Avamar
Solution Costs	\$7,500	\$50,000	Expensive
Dedupe Methods	Source and Target	Target	Source
Cost to Scale	No Additional Costs	\$9,000 / TB	Expensive



DL2200 powered by Symantec Backup Exec<sup>™</sup> 2010: *Data Deduplication* 

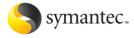
## **Deduplication Business Use Cases**

Remote Office Data Protection	Virtual Machine Deduplication	Use Less Storage for Your Backups	No Storage Lock-In
<list-item></list-item>	<ul> <li>Resource optimized backup of VMware virtual machines</li> <li>Dedupe in the VM with Agent or at the BE Server without an Agent</li> </ul>	<ul> <li>Use standard servers and disk, but stores more data more efficiently</li> <li>Off-host dedupe</li> <li>Off-host dedupe</li> </ul>	<text></text>
CLIENT-SIDE	CLIENT /OFF-HOST	MEDIA SERVER	HARDWARE OR
DEDUPLICATION	DEDUPLICATION	DEDUPLICATION	SOFTWARE DEDUPLICATION



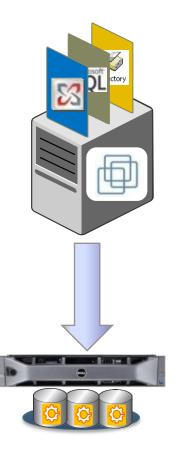
## **Protect Virtual Servers**

DL2200 powered by Symantec Backup Exec<sup>™</sup> 2010: Virtual Machine Protection



18

## **Virtual Machine Protection**

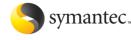


#### Your Customer's Virtualization Challenges

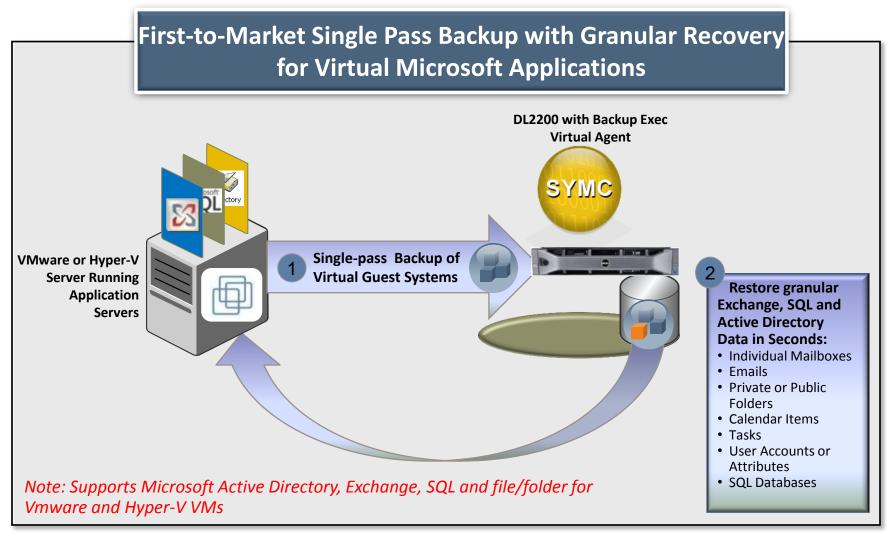
- 46% of respondents surveyed run "Tier 1" applications on virtual machines<sup>1</sup>
- 65% of SMB companies do not back up virtual server environments<sup>2</sup>
- Virtualization introduces new backup performance issues and recovery complexities
- Customers redesigning backup simultaneously

#### The DL2200 Value Proposition:

- Save time in designing virtualization backup DL2200 is optimized and designed for VM protection
- Reduce LAN backup traffic from 100s of VMs using DL2200 source deduplication
- Recover data better in VMs DL2200 simplifies individual file and e-mail recovery

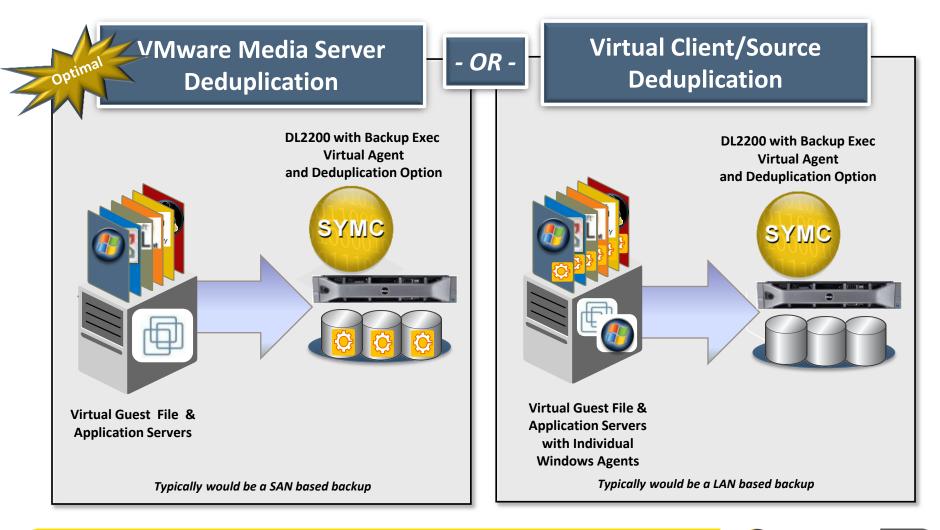


## Virtualize with Confidence *Protect, Optimize...*





# Virtualize with Confidence *... and Deduplicate*





symantec.

## NEW Virtualization Support Physical and Virtual System Protection In One Console

#### Agent for VMware Virtual Infrastructure

- Support for VMware vSphere 4.0, vCenter 4.0 and vStorage
- Stage-less backup and restore (No VCB Proxy Server)
- vSphere block level Differential/Incremental backup
- Virtual Machine Template File Backups
- Application Granular Recovery (Exchange, SQL, AD) from a single-pass backup
- Dynamic inclusion of found virtual machines
- Redirected restore Support for Folders and Resource pools

#### Agent for Microsoft Hyper-V

- Support for Windows Server 2008 R2 Hyper-V
- Support for Hyper-V LiveMigration/host clustering with Cluster Shared Volumes (CSV)
- Dynamic inclusion of found virtual machines
- Application Granular Recovery (Exchange, SQL, AD) from a single-pass backup



# **Unified Archiving – File System & Exchange**

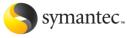
DL2200 powered by Symantec Backup Exec<sup>™</sup> 2010: Virtual Machine Protection



## **Business Case: Unified Archiving**

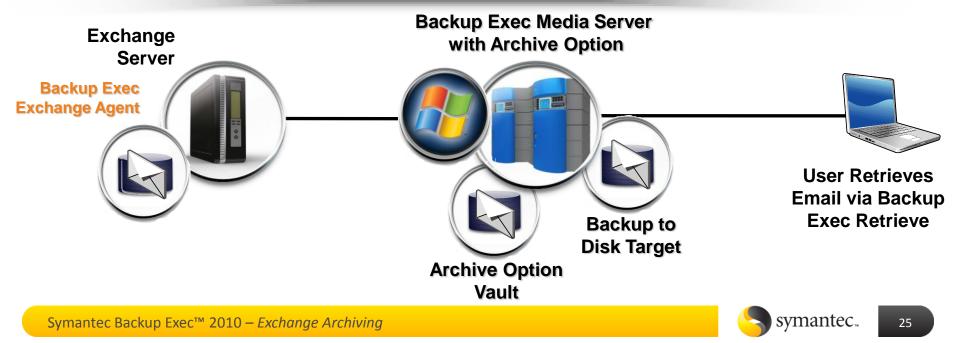
#### **Exchange and File Server Archiving Options**

- Keep Exchange and File storage at predictable levels
- Reduce backup windows
- Provides migration of data to cheaper disk storage as it ages
- Improves recovery times
- One backup for disaster recovery and archive protection reduces I/O impact on Exchange and File servers
- Easily combine with client or media server Deduplication for added storage savings



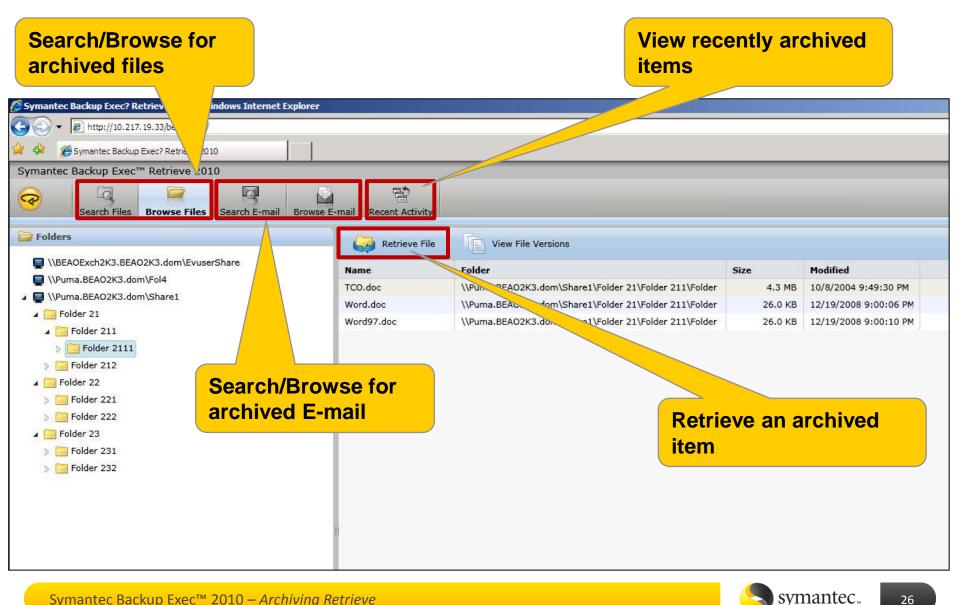
# NEW Backup Exec Archive Option for Exchange

- Full and Incremental/Differential Exchange Database Backups Are Performed Regularly
- Based Upon Archive Option criteria (age and/or size), Individual Emails Are "Harvested" from Backup and Migrated to Archive Option Vault
- Original Email Deleted From Exchange Server to Free Storage Space
- Emails in Vault Are Indexed
- Users Can Retrieve Individual Emails Using the Backup Exec Retrieve Google-like web UI



Symantec - CONFIDENTIAL

## **Introducing Backup Exec Retrieve**



Symantec Backup Exec<sup>™</sup> 2010 – Archiving Retrieve

Symantec - CONFIDENTIAL

26

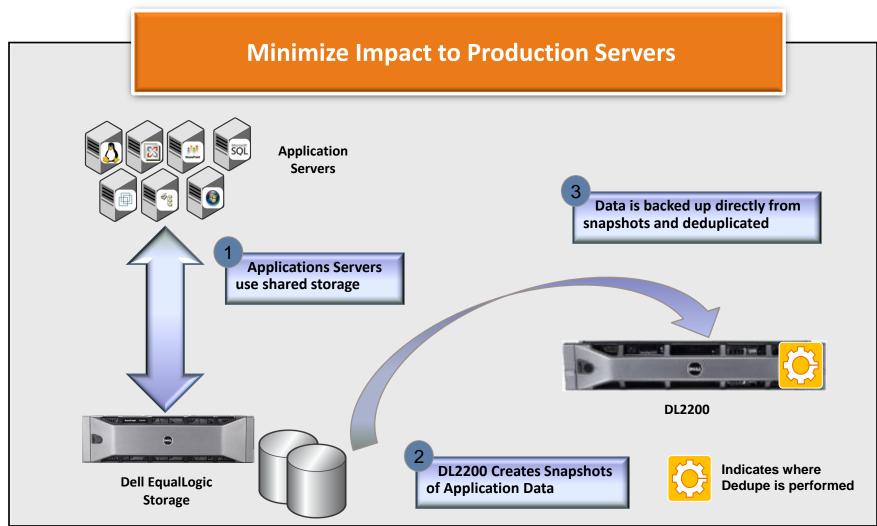
Protect EqualLogic

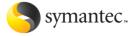
## **Protect EqualLogic using DL2200**

DL2200 powered by Symantec Backup Exec<sup>™</sup> 2010: EqualLogic Integration



## **Simplified EqualLogic Protection**

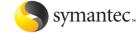




## **Business Case: EqualLogic Integration**

**Advanced Disk-based Backup Option** 

- Centralize storage using cost effect iSCSI SANs
- Integration with EqualLogic APIs no separate scripting or education is required. Simply select as part of a backup job.
- Backup directly from EqualLogic Snapshots to minimize the impact on production servers (off-host backups)
- Combine with deduplication to reduce the amount of data stored



## Simplify

DL2200 powered by Symantec Backup Exec<sup>™</sup> 2010: Simplified Offering



## Symantec DL2200 Editions



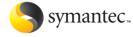
#### **Without Deduplication**

- Media Server License
- Storage Provisioning Option Basic
- 2 x Agent for Windows Systems
- 1 Yr or 3 Yr Maintenance



#### With Deduplication

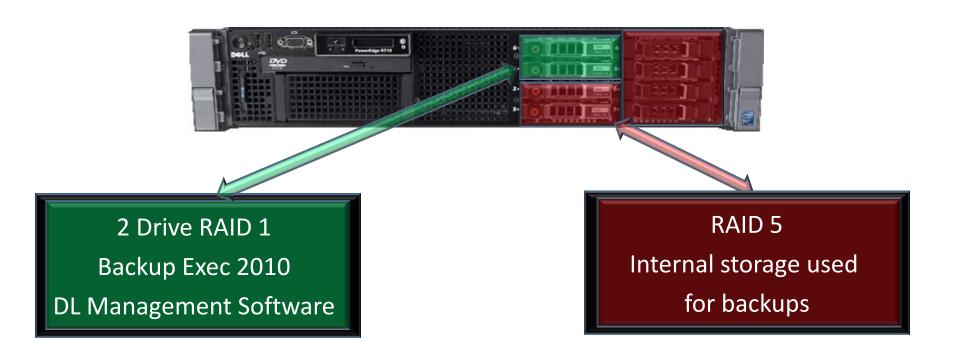
- Media Server License
- Storage Provisioning Option Basic
- Deduplication Option
- 2 x Agent for Windows Systems
- 1 Yr or 3 Yr Maintenance



## **DL2200 Add-on Packs**

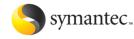
- External Storage Upgrade
  - Adds support for provisioning external disks in an MD1000 attached to the DL2200
- Agents and Options
  - Additional Backup Exec Agents and Options are licensed from the **BE 2010 Power Suites**.

## **DL2200 Server Only Configuration**

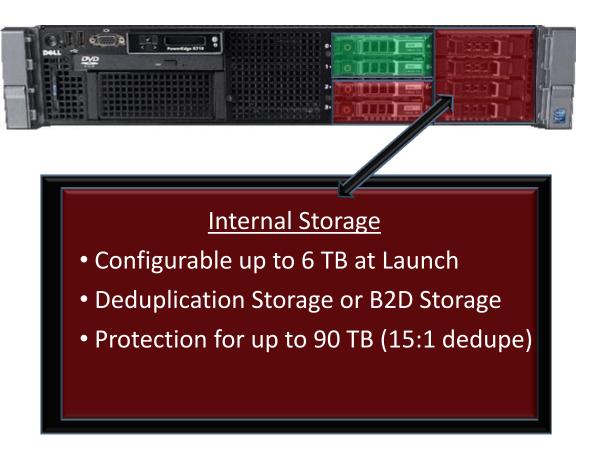


#### Storage Provisioning Option – Basic License configures internal storage only

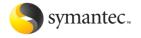
DL2200 powered by Symantec Backup Exec™ 2010: Simplified Offering



## **DL2200 Server Only Configuration**

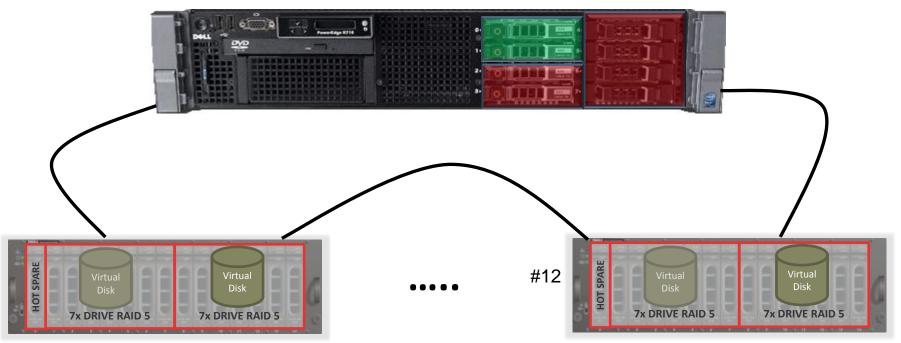


DL2200 powered by Symantec Backup Exec<sup>™</sup> 2010: Simplified Offering



## **DL2200** with Expansion

#1



#### Add External Storage Upgrade SKU (Storage Provisioning Option) for MD1000 expansion

DL2200 powered by Symantec Backup Exec<sup>™</sup> 2010: Simplified Offering



35

Q & A



