



Data Protection | Rapid Recovery

x86

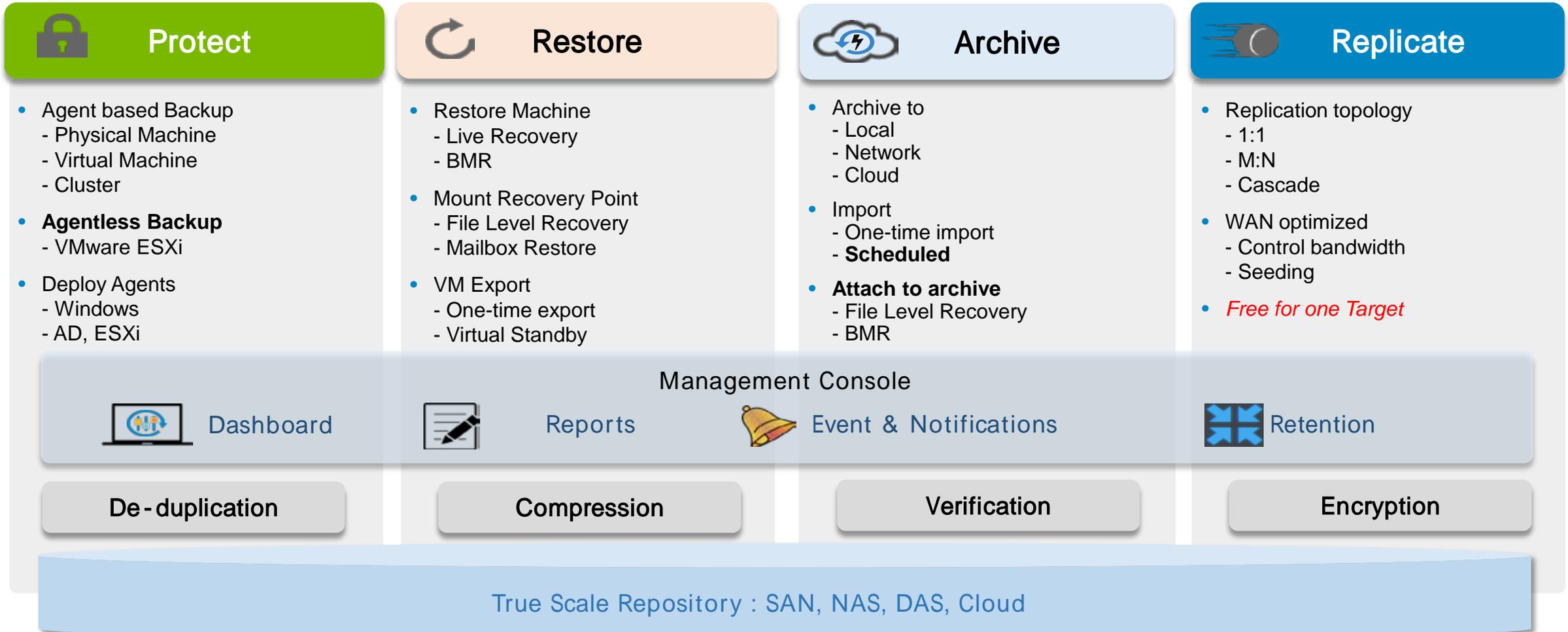
DR

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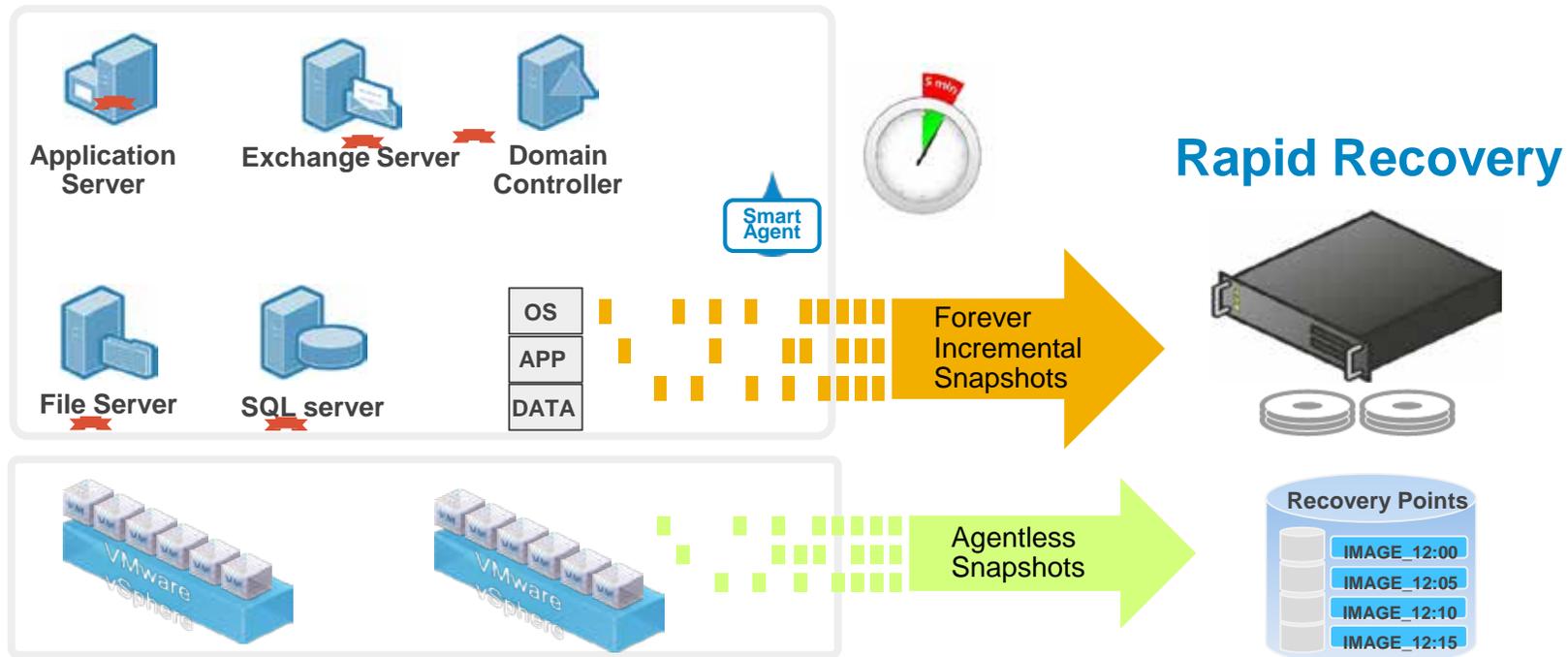
Rapid Recovery Overview: x86

DR



Protect Continuously: 5

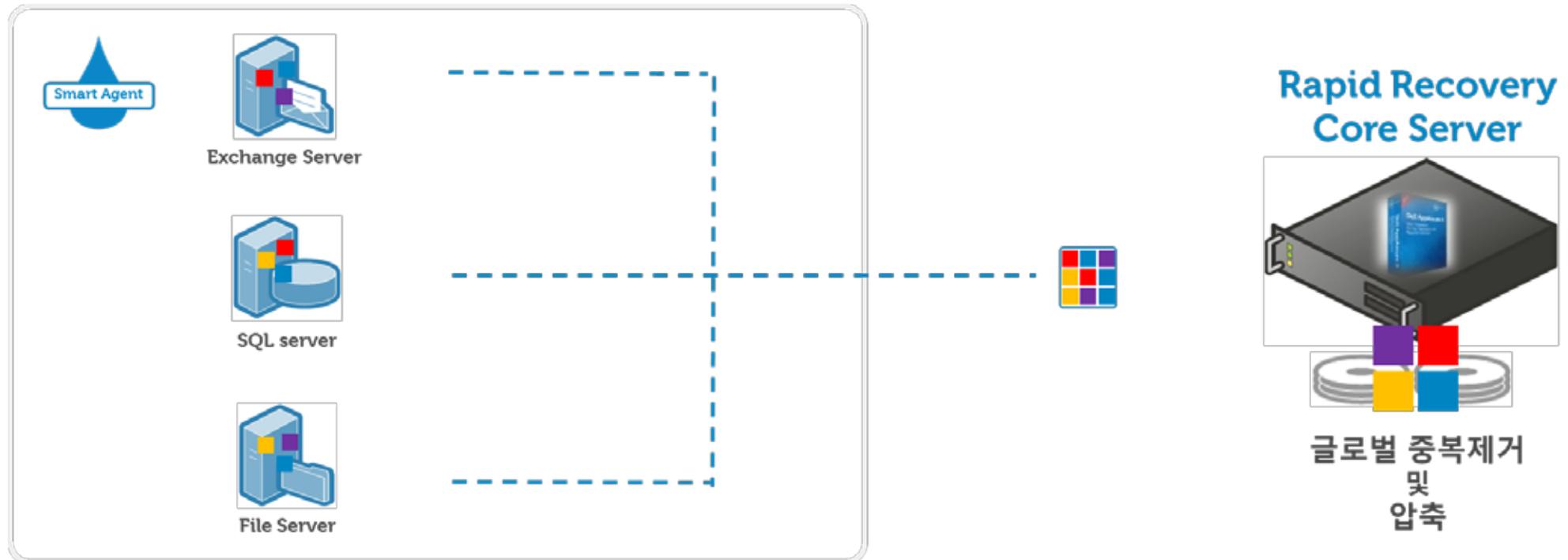
- -
 -
- 5 è 1% CPU
- 10 è 5



Protect:

- : 80%

- (Repository)



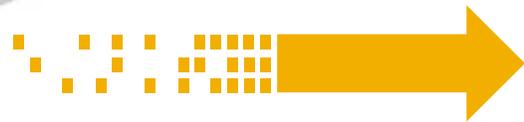
Recovery: Universal Recovery™

- The ultimate flexibility for disaster recovery

- OS Image HW Platform / 가 가
- VM Host (or) Migration
- P2P, P2V, P2C, V2V, V2P, V2C, C2P, C2V



5 /



Rapid Recovery



Amazon S3
MS Azure
RackSpace
OpenStack



Virtual Server



Bare Metal Restore

Dissimilar hardware

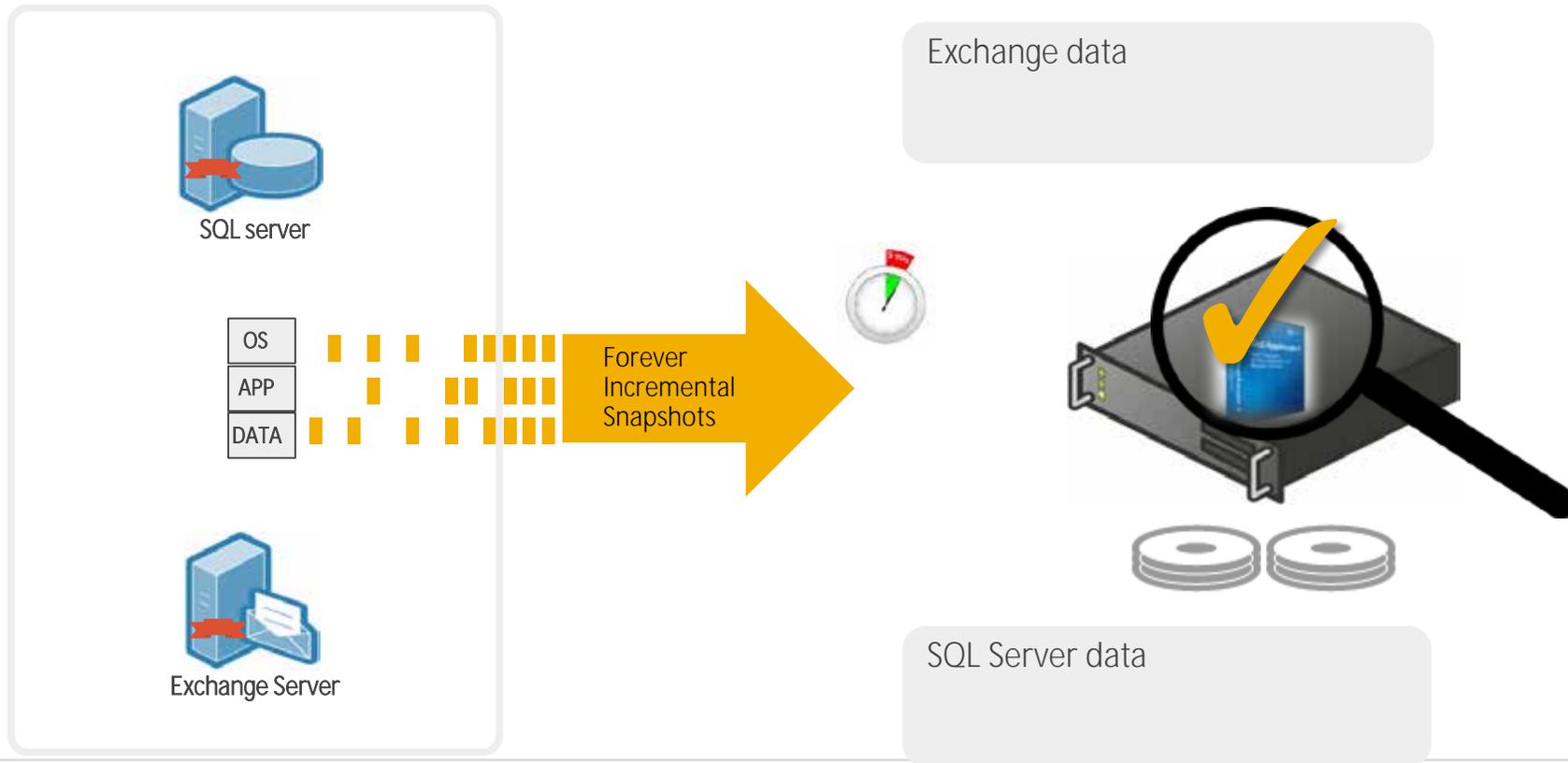


Identical hardware



Recovery: Verified Recovery™

- Data (MS SQL Server, MS Exchange)
-

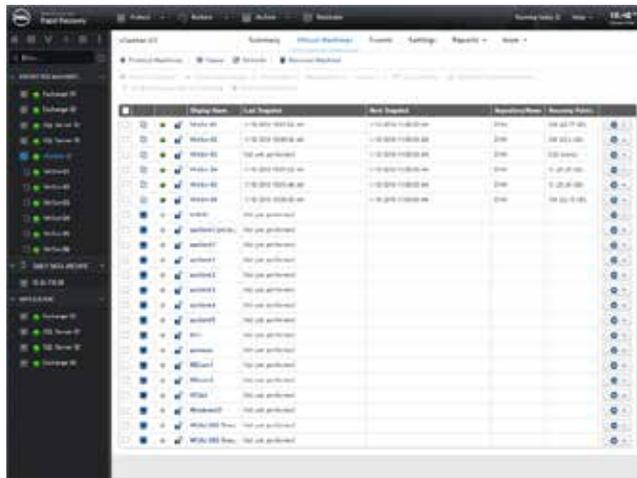


Friday, Sep 12, 2014

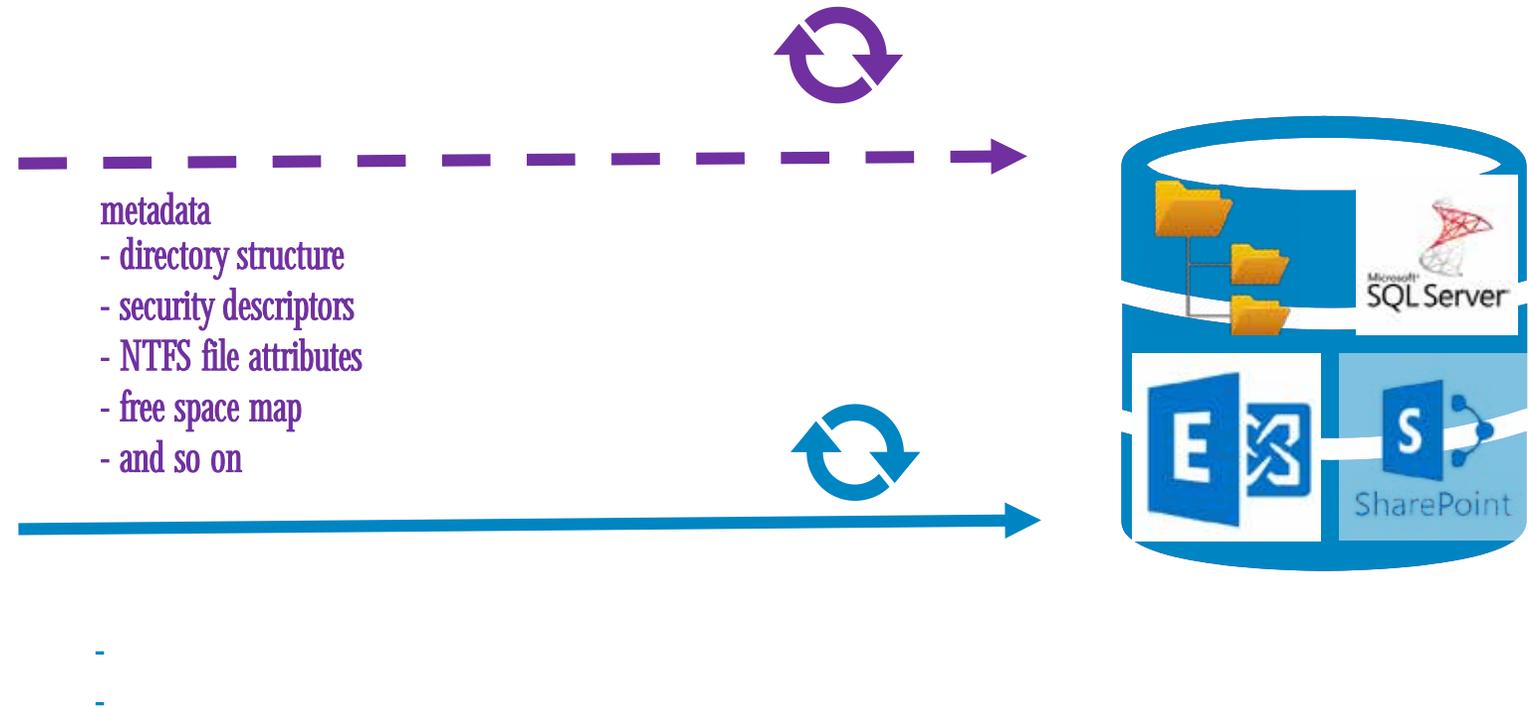
- ☺ 01:00 – C: D: E: F:
- ☺ 01:30 – C: D: E: F:
- ☺ 02:00 – C: D: E: F:
- ☺ 02:30 – C: D: E: F:
- ☺ 03:00 – C: D: E: F:
- ☺ 03:30 – C: D: E: F:
- ☺ 04:00 – C: D: E: F:
- ☺ 04:30 – C: D: E: F:
- ☺ 05:00 – C: D: E: F:
- ☺ 05:30 – C: D: E: F:
- ☺ 06:00 – C: D: E: F:
- ☺ 06:30 – C: D: E: F:
- ☺ 07:00 – C: D: E: F:
- ☺ 07:30 – C: D: E: F:
- ☺ 08:00 – C: D: E: F:
- ☺ 08:30 – C: D: E: F:
- ☺ 09:00 – C: D: E: F:

Recovery: Live Recovery™

- data 가 (SQL, Exchange, SharePoint)
- (on-demand)



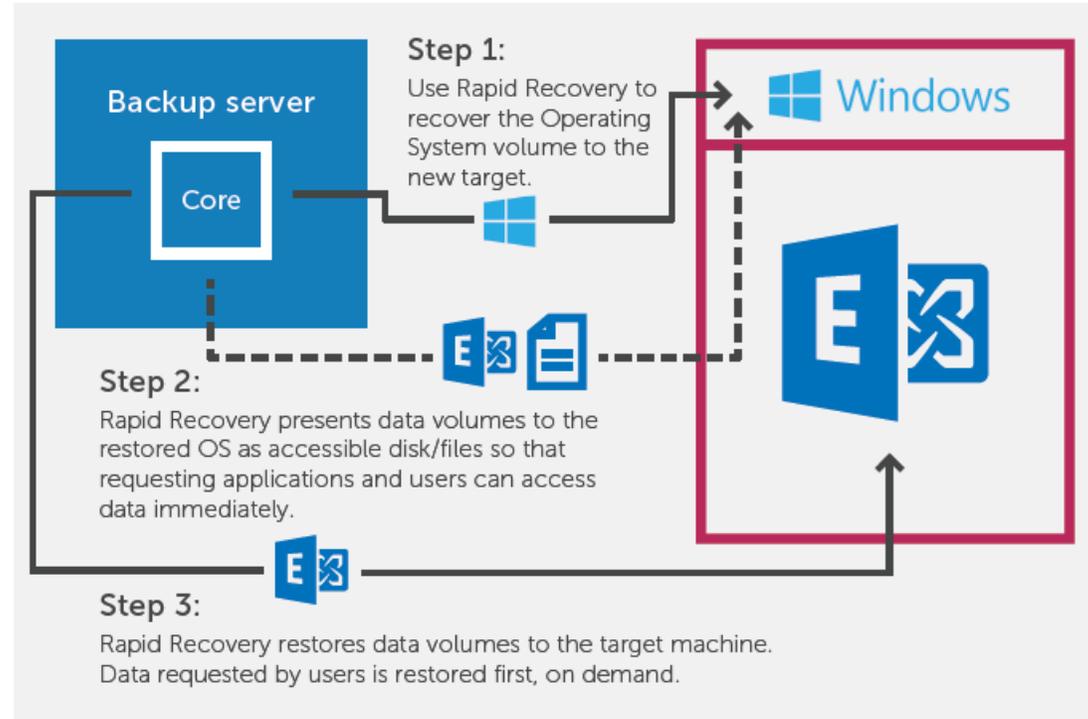
Rapid Recovery Console



Live Recovery functional diagram



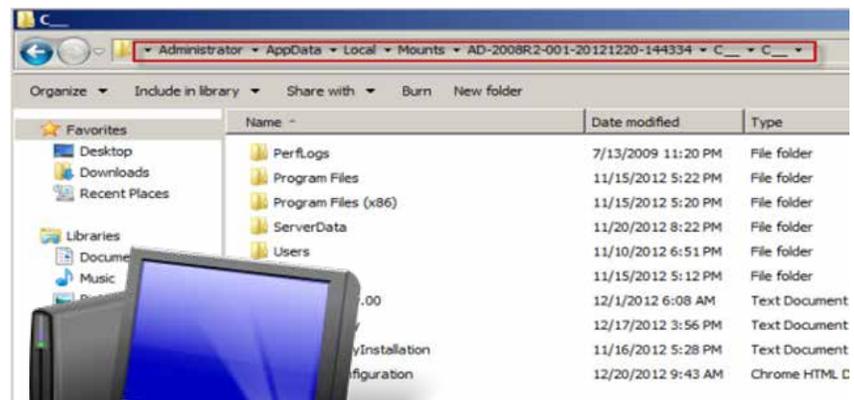
Machine crashes, all data lost or is inaccessible. However, Rapid Recovery has a backup of the entire machine.



Recovery:

-Local Mount Utility

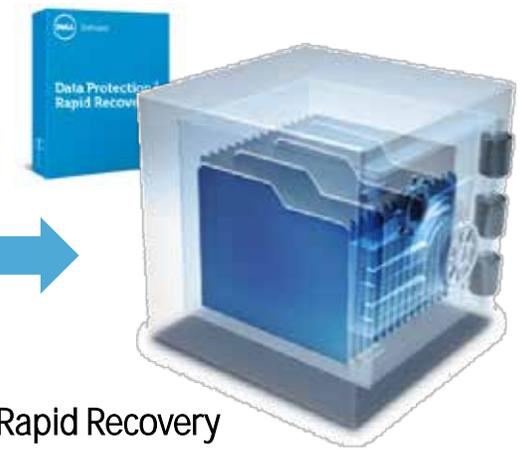
- (File, SQL Database, Exchange Message)
- PC network drive mount point 가
- Image Data File



Server/Desktop



Mount Point
Backup Storage Direct Access

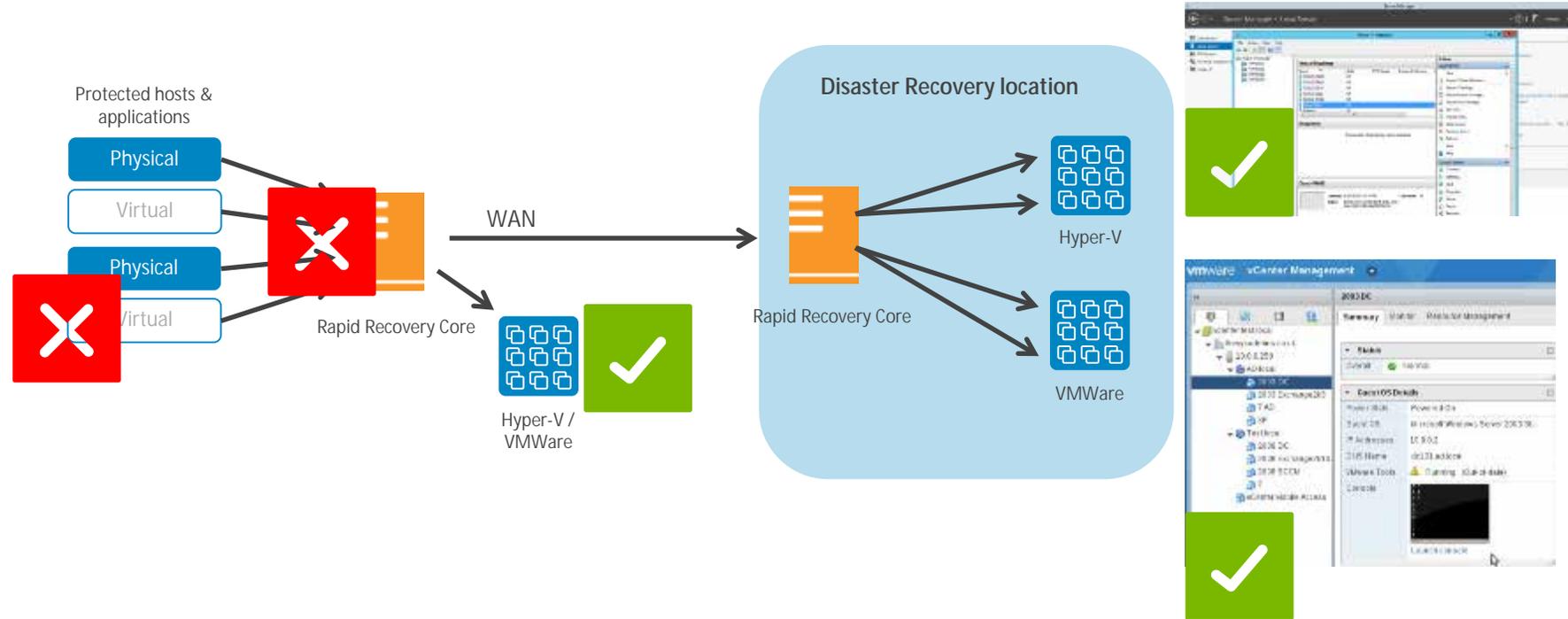


Rapid Recovery

Recovery: Virtual Standby(or Export)

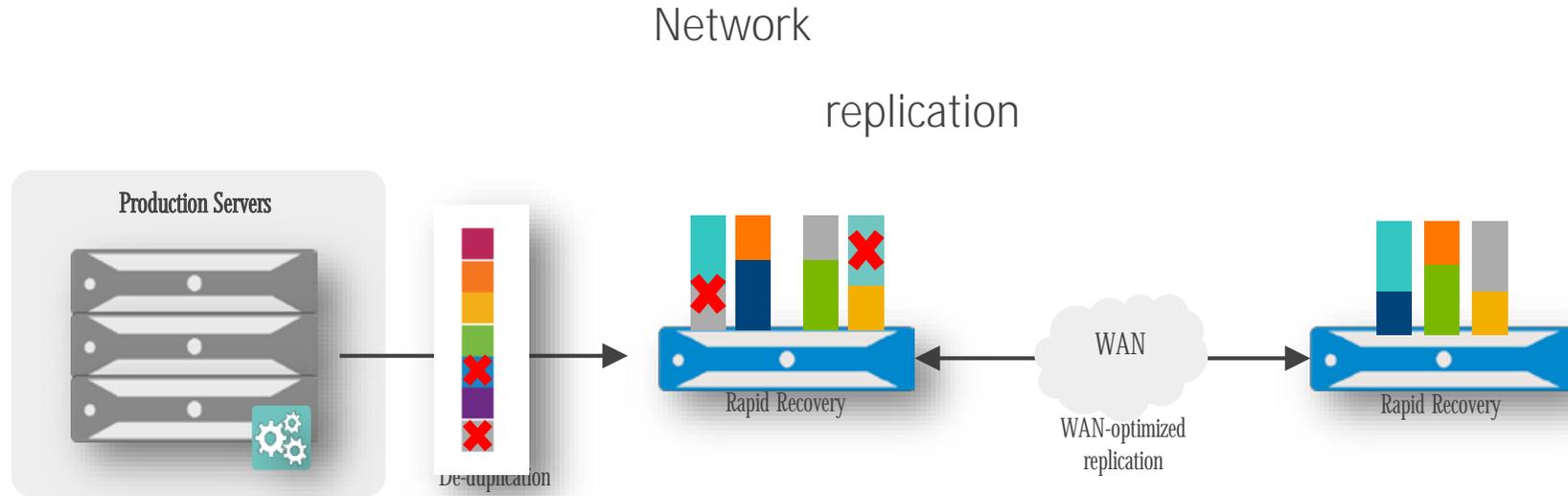
- 가 Virtual Machine
- Standby VM 가
- ESXi Hyper-V, VirtualBox Hypervisor

Æ Near Zero RTO



Replication

-
- M:N



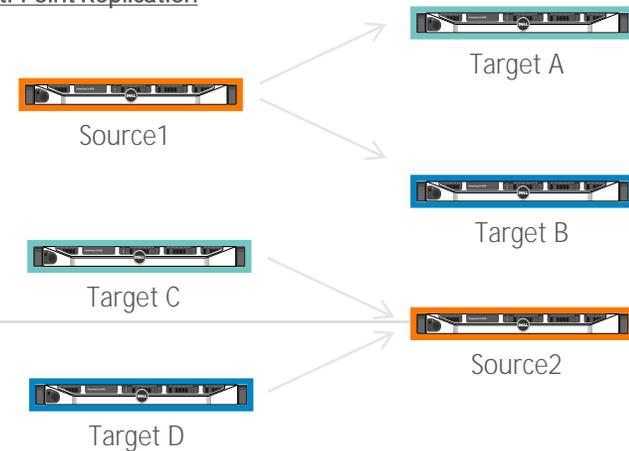
Simple Replication



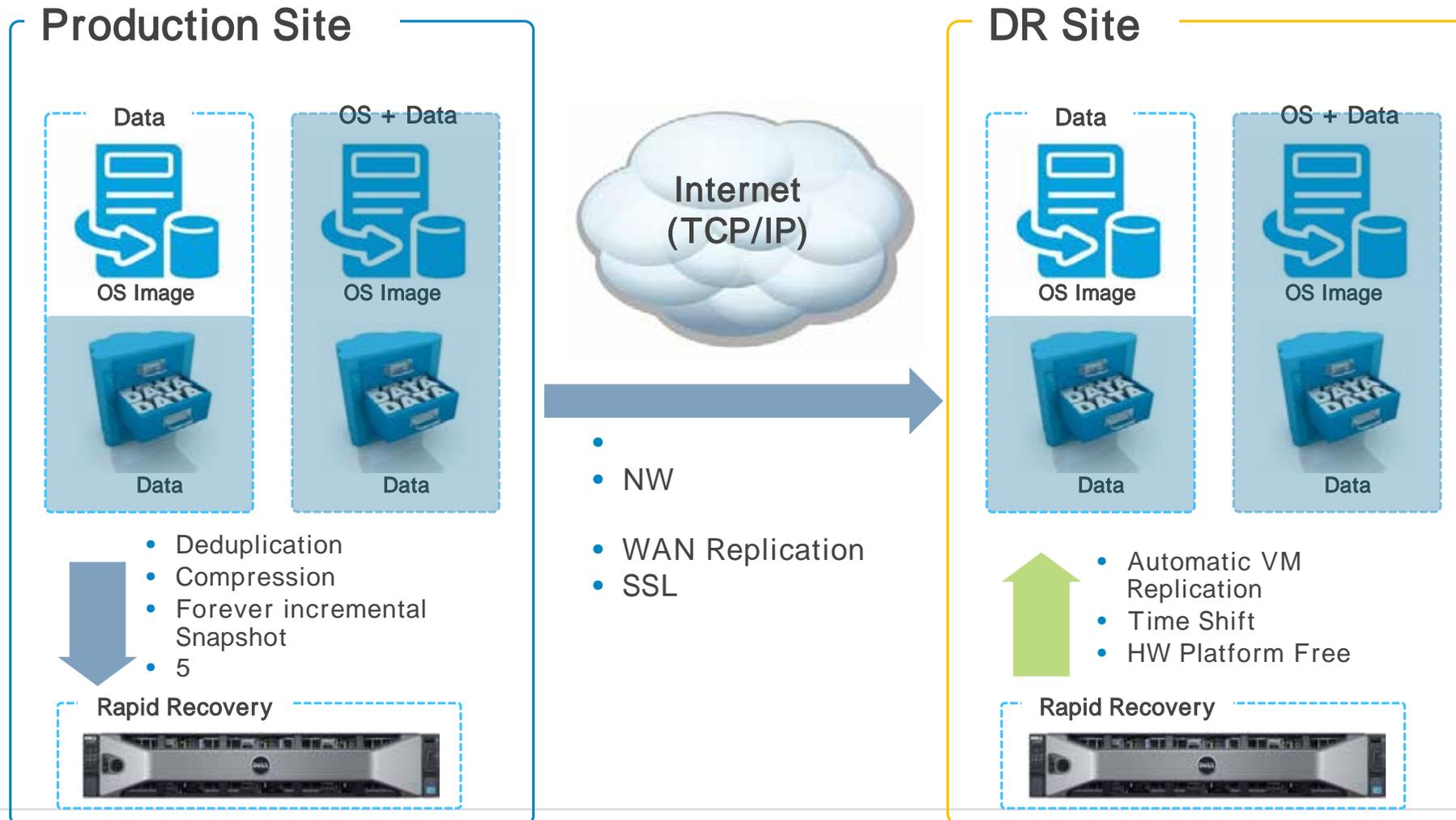
Cascaded Replication



Multi-Point Replication



Replication + Virtual Standby



OS

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The image displays two screenshots from the Veeam Backup & Replication interface. The top screenshot is the 'Protect Machine Wizard' showing 'Protection Volumes' with a table of volumes to be protected. The bottom screenshot shows the 'V-SQL Recovery Points' summary and a table of recovery points. A 'Restore' button is highlighted in red in the bottom screenshot. Annotations include a callout for 'Protection Volumes' in the wizard, a yellow arrow labeled 'Snapshots' pointing from the wizard to the recovery points, a callout for 'Snapshots' pointing to the wizard's volume list, a callout for 'Recovery Point - Restore' pointing to the 'Restore' button, and a callout for 'OS/ (BMR)' pointing to the 'Destination' section of the 'Restore Machine Wizard'.

Protect Machine Wizard - Protection Volumes

Name	Space Usage	File Systems
(복합 레이볼 '시스템 예약')	61.7 MB used of 100 MB	NTFS
C:\	31.1 GB used of 99.9 GB	NTFS
F:\	307.91 MB used of 30 GB	NTFS

V-SQL Recovery Points - Summary

Recovery Points: IMAGE_12:00, IMAGE_12:05, IMAGE_12:10, IMAGE_12:15

Repository Status: 12% (111.23 GB used of 950.62 GB)

V-SQL Recovery Points - Table

Status	Encrypted	Contents	Type	Date	Size
	<input checked="" type="checkbox"/>	(복합 레이볼 '시스템 예약')	Base	7/15/2018 12:00:03 AM	61.76 MB
	<input checked="" type="checkbox"/>	(복합 레이볼 '시스템 예약'), C:\, F:\	Incremental	7/15/2018 12:05:02 AM	5.05 MB

Restore Machine Wizard - Destination

Destination: Choose the target machine that you want to restore.

Recover to a protected machine (only recovery software supported): 1 SQL (Current) [Refresh]

Recover to any target machine using a boot CD. This option will attempt to use a boot CD. If you already have a boot CD, check the box below.

OS/ (BMR)



- Notification Group

- Email, Windows Event Log, syslog, SNMP

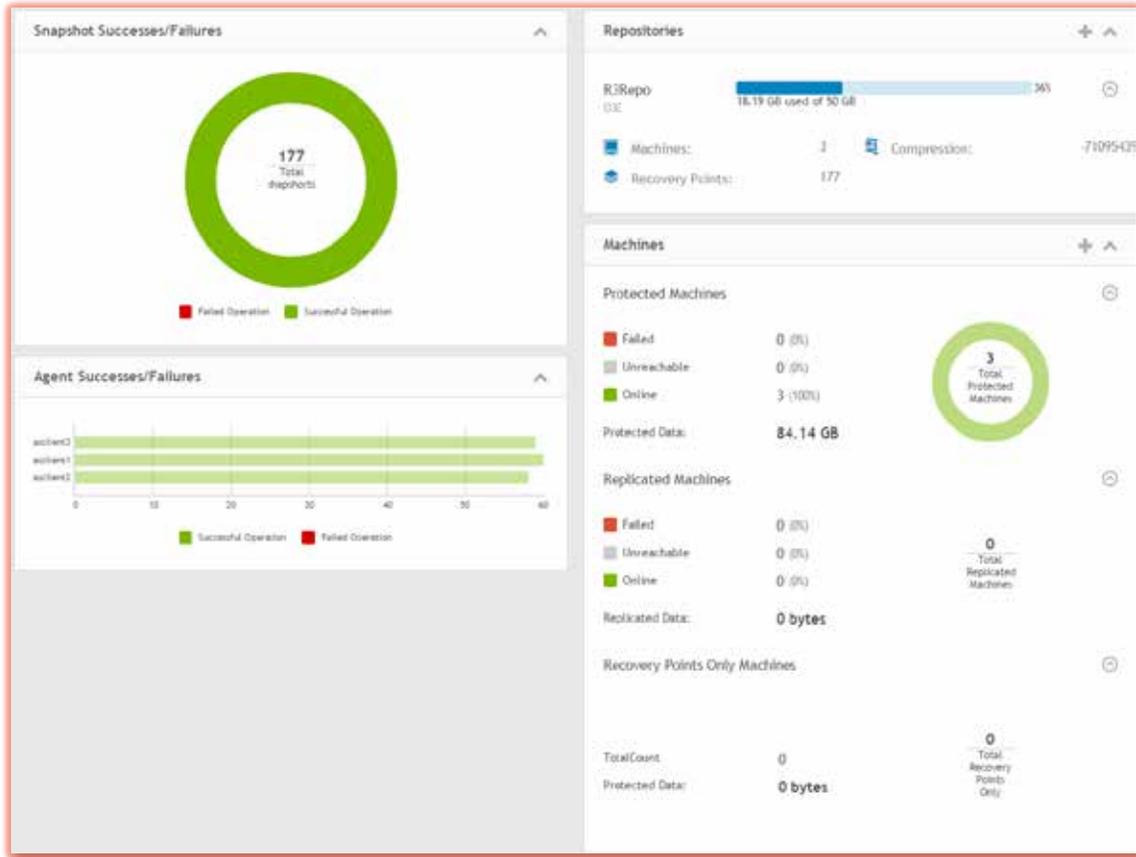
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The image displays a dashboard with several panels and two configuration windows. The dashboard panels include:

- Transfer Job for last 24 hours:** A donut chart showing 24 total snapshots, with a legend for Successful (green) and Failed (red).
- Repository:** Shows REPO_DVM1 with 62.94 GB used of 232.09 GB (27%). It lists 4 machines, 136 recovery points, 63% compression, and 30% deduplication. A line graph shows disk transfer rates for Read and Write over 1 minute.
- Transfer Job per Machine for last 24 hours:** A horizontal bar chart showing successful transfers for machines like 10.154.4.91, ZP-MS9(LT817), and SP-DFA-WMG02.
- Machine Connectivity:** A table showing 4 protected machines, all Online (100%). It also shows 0 Failed, 0 Paused, and 0 Unreachable machines. Protected data is 170.43 GB.

Two configuration windows are overlaid on the right:

- Add Notification Group:** Shows settings for a notification group, including 'Enable Alerts' and 'Notification Options' with a list of alert types like 'Exchange' and 'Jobs'.
- Add Notification Settings:** Shows configuration for a specific notification, including 'To' (Email), 'From', and 'Send to' (Windows Event Log).

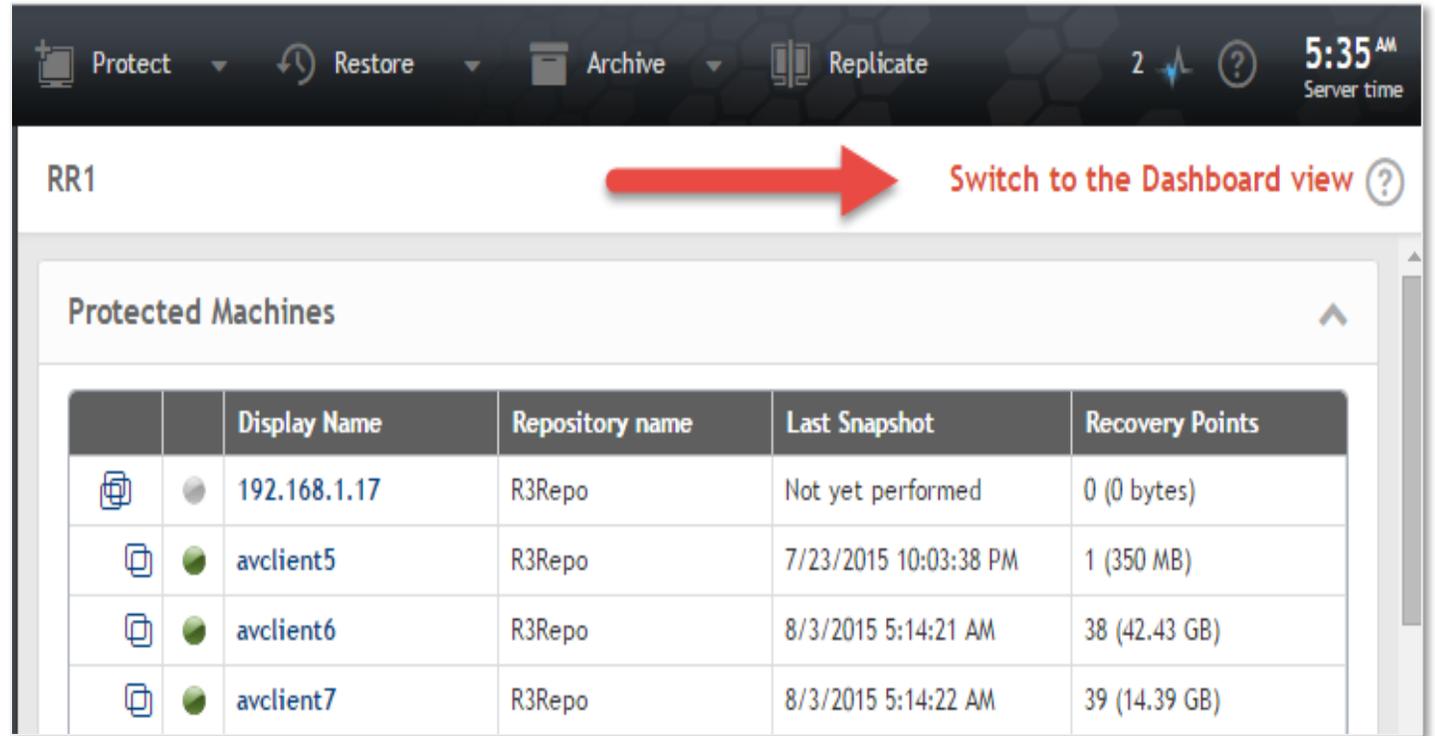


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- DVM
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Summary table view

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- 가
- Snap-shot,



The screenshot displays a software interface for data protection management. At the top, there is a dark navigation bar with icons and labels for 'Protect', 'Restore', 'Archive', and 'Replicate'. On the right side of this bar, it shows '2' (likely a notification count), a help icon, and the server time '5:35 AM Server time'. Below the navigation bar, the text 'RR1' is visible on the left, and a red arrow points to a button labeled 'Switch to the Dashboard view' with a help icon. The main content area is titled 'Protected Machines' and contains a table with the following data:

		Display Name	Repository name	Last Snapshot	Recovery Points
		192.168.1.17	R3Repo	Not yet performed	0 (0 bytes)
		avclient5	R3Repo	7/23/2015 10:03:38 PM	1 (350 MB)
		avclient6	R3Repo	8/3/2015 5:14:21 AM	38 (42.43 GB)
		avclient7	R3Repo	8/3/2015 5:14:22 AM	39 (14.39 GB)

Easily monitor and maintain data protection for critical systems

Rapid Recovery Appliance: DL Series

DL4300 Backup and Recovery Appliance (Standard Edition)



Quest DL1300
1, 2, 3 and 4TB



Quest DL4300
Standard Capacity
Up to 60TB



Quest DL4300
High Capacity
Up to 120TB

Capacity License:

Feature	Specification
Processor	<ul style="list-style-type: none"> Two Intel Xeon E5-2640v3 2.6 GHz
Drives(Internal)	<ul style="list-style-type: none"> 2x 300GB SAS drives for OS (2.5", 10K, 6Gbps) RAID 1 Standard 5TB Edition Standard 10~20TB Edition Standard 30~40TB Edition Standard 50~60TB Edition
Memory	<ul style="list-style-type: none"> 64GB or 128GB RDIMM
Network connectivity	<ul style="list-style-type: none"> Dual 4x1GbE Broadcom NIC or 4x1GbE Broadcom NIC and 2x10GbE Broadcom NIC
Maximum physical capacity	<ul style="list-style-type: none"> Standard Edition : 5TB - 60TB High Capacity Edition : 120TB using up to four MD1400 expansion shelves(40TB - 120TB)
Features	<ul style="list-style-type: none"> Inline block level deduplication Snapshots Live Recovery® Capacity licensing Standby Virtual Machines for Disaster Recovery - 2 edition included with license

Rapid Recovery Agent

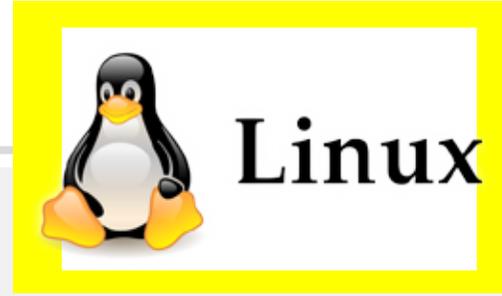
x86



Microsoft Windows Vista SP2
Microsoft Windows 7 SP1
Microsoft Windows 8, 8.1*
Microsoft Windows 10
Microsoft Windows Server 2008 SP2
Microsoft Windows Server 2008 R2 SP1
(except Windows 2008 Core)
Microsoft Windows Server 2012
Microsoft Windows Server 2012 R2*

• * ASP .NET 4.5.x role/feature

- SQL Server : 2005 ,
- Microsoft Exchange : 2007 SP1 Rollup 5 or later, 2010, 2013
- SharePoint 2007, 2010, 2013



Red Hat® Enterprise Linux® (RHEL) 6.[3~7], 7.0, 7.2
CentOS 6.[3~7], 7.0, 7.2
Oracle Linux 6.[3~7], 7.0, 7.2
Ubuntu 12.04 LTS, 12.10, 13.04, 13.10, 14.04 LTS, 14.10, 15.04, 15.10
SUSE® Linux Enterprise Server (SLES) 11 (SP2 and later), 12

- ext2, ext3, ext4 xfs
- root

Common Notes

- UEFI
- Windows 2008 R2
- Hyper-V CSV Virtual Export
- 가
: Port : 8006, 8009
- reboot
- Agentless VMware Tool
CBT enable



Rapid Recovery



- Snapshot: 가 incremental
- 가
- MSSQL, Exchange Sharepoint



- Live Recovery: 가
- 가
- (P2V, V2V, V2P, P2P, P2C, V2C C2P, C2V)



- UI 가
- 가
- WebUI

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