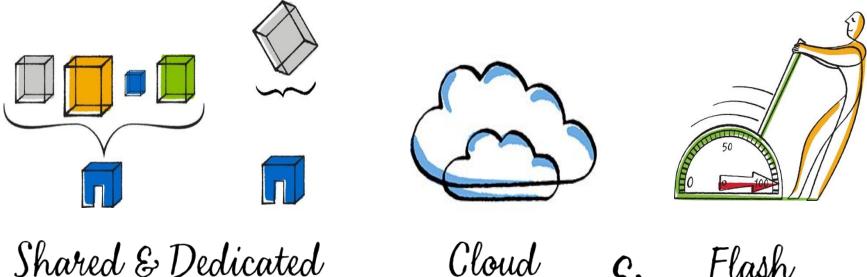




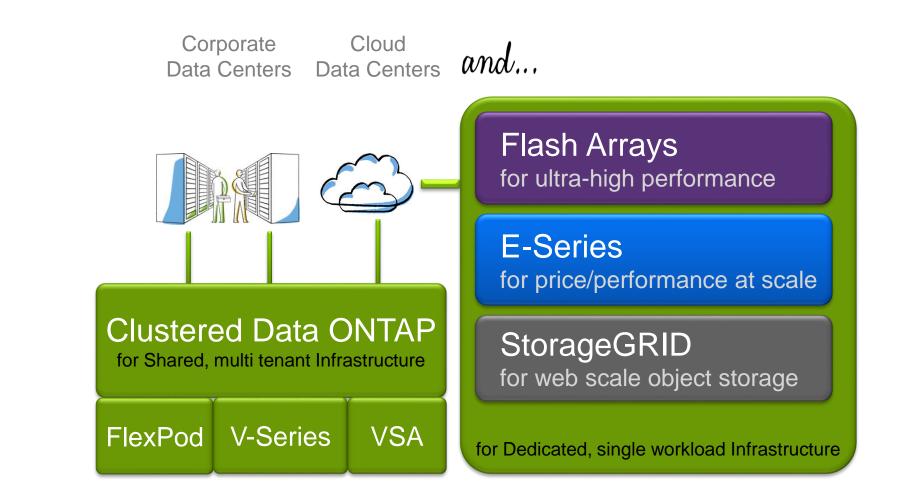
Market-leading innovations, that are ...



Storage Solutions

Cloud & Flash Integrated Accelerated

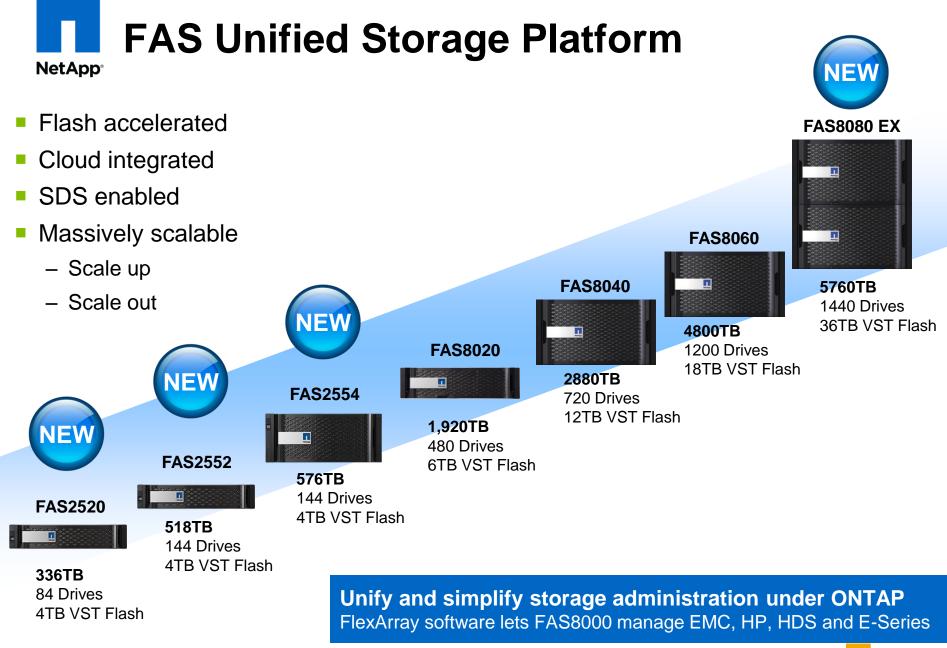
Lead the Industry with Storage Innovation



Innovation to Help You Succeed

EF550 all-flash array extends 2013 NetApp's flash **Flash portfolio** leadership **Clustered storage** 2012 Clustering across SAN & NAS Shared virtualized *2007* First unified dedupe for primary/secondary storage systems Compounding Thin provisioning and FlexClone® 2004 storage efficiencies **Unified storage** 2002 First unified SAN and NAS appliance systems Affordable data SnapMirror[®] replication protection First network-attached storage appliance Birth of an industry and storage Snapshot™ efficiency

NetApp[®]



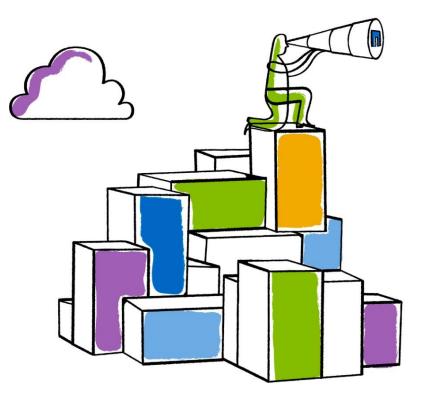




Go further, faster®



NetApp Integrated Data Protection



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NetApp[•] SnapShot

Research from Gartner

The Future of Backup May Not Be Backup

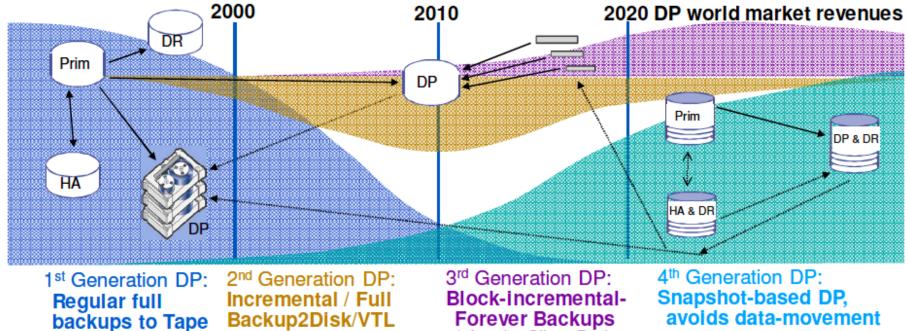
Many organizations struggle with the effectiveness of their backup solutions. With the status quo for recovery deemed outdated, backup looks as if it will morph into a very different activity, with new technologies being deployed to provide improved data protection.

Overview

The top challenges and current trends for the backup market are described in this research. New solutions for augmenting and even replacing traditional backup software are emerging, with the future of backup poised to become something different from backup as we have known it for decades. protection capabilities, such as snapshot and replication (which could include continuous data protection [CDP], file sharing [with versioning] and cloud capabilities).

- Ensure that you understand the existing and expected data recovery capabilities that are provided by your key application providers, as well as what is delivered by your OS and hypervisor vendors. While perhaps not ready to handle the bulk of your requirements today, new features are being delivered that may warrant consideration today or in the future.
- Although snapshots are likely to play a more expanded role in your future backup solution
- NetApp has invented SnapShot by 1993
- NetApp Snapshots does not have any write impacts
- Same feature and same # of SnapShots across the entire FAS Series
- NetApp SnapShot is free of charge, base feature NetApp SnapShots can be used as part of DP, DR, Backup, HA, Test And Dev solutions simultaneously.
- 3rd Party vendors use NetApp SnapShots as fundament.

NetApp's current offerings for the Data **Protection Market paradigm change** NetApp[®]



(often by Client-Dedupe; reduced backup xfer rates, but slower large Restores & Tape copies)

for backups and restores

with Mirroring / Replication (DP, DR, HA and Test/Devneeds can be combined)

Dedupe & compression benefits start at Primary Data and can be kept in backup copies

Traditional DP result in very poor DP SLAs (too much data & files have to be transferred)

(Dedupe- and Non-

Dedupe targets offer only limited improvements to

1st generation solutions)

 \rightarrow 4th Generation Snapshot based Data Protection is the future for the DC, 3rd Gen is the future for client DPR & may be an alternate for backups "out of Array Snapshots" -

Separate techniques

for DP. DR and HA

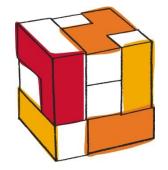
Data Management Challenges

Growth



- Data growing 30-50% per year
- Scaling current process and systems is difficult

Complexity



- Too many technologies to integrate
- Coordinating technologies slows response times

Cost

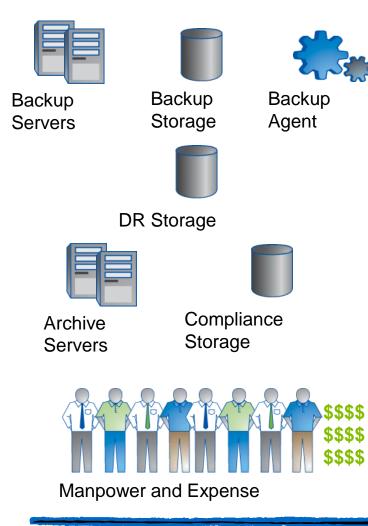
- Frozen or shrinking IT budgets
- Need to consolidate resources across the business





- Slow recovery times impact business units
- Mandated compliance and need for rapid eDiscovery

Implementing Traditional Data Protection



Costly

- Multiple, specialized devices to buy
- As data grows, you scale multiple products

Complex

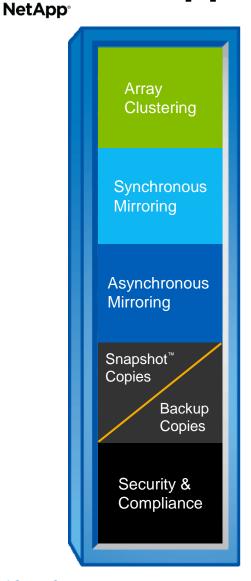
- Time consuming to deploy
- Multiple silos of management
- Multiple vendors & support contracts

Limited flexibility

- Cannot use systems for multiple purposes
- Difficult to use with virtual servers (e.g. backup)
- Not well suited to on-demand, multi-tenancy needs of IT as a Service / cloud

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NetApp Integrated Data Protection



Reduces risk

- Continuous availability
- Recovery in minutes
- Secure retention for compliance

Drives greater cost efficiency

- Up to 90% less capacity used
- Up to 70% less network utilization

Improves and simplifies processes

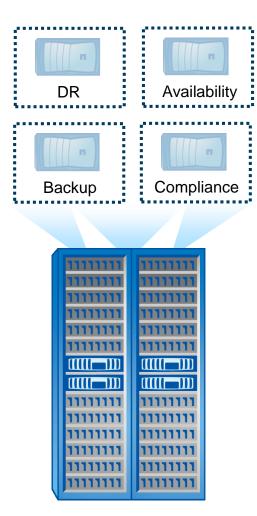
- Built-in protection that rolls out in minutes
- Up to 40% lower management overhead
- Flexible and scalable in any environment

Business agility

- Enables IT to be a business driver
- Accelerates business intelligence efforts
- Up to 95% lower development costs

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A Single Platform



Satisfies broad set of recovery objectives

- Continuous availability zero RTO
- Disaster recovery flexible RTO
- Backup and recover multiple RPOs
- Archive and compliance

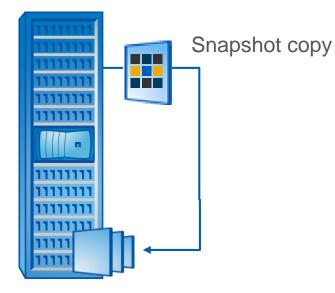
Easily and quickly deployed

- Services are already on board add as needed
- Configure and make available in minutes

Supports multiple environments

- Physical servers
- Virtualization
- IT as a service

Risk Mitigation: Faster Protection



Safeguard data up to 98% faster

- Creates instant point-in-time Snapshot[®] copies
- Has near-zero impact on performance
- Enables you to back up when you want, as often as you want to prevent data loss

Restore faster, to eliminate risk of downtime

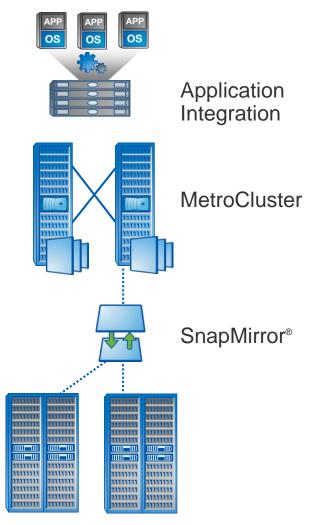
- Snapshots revert to specific point in time
- Meets tight recovery time objectives
- Uses a single command to restore, minimizing downtime

"Until recently the backup took several hours. With NetApp we have a time saving of at least 18 hours and were able to eliminate the tape backup."

Pekka Purontaka, Storage Manager AFA Insurance

Risk Mitigation: Increased Availability

NetApp[®]



Designed for continuous availability

- Storage clustering for zero data loss
- Eliminates planned and unplanned downtime
- Cluster up to 100 km for greater protection

Delivers flexible disaster recovery

- One to many and many to one
- Any platform to any platform (FC or SATA)
- Integrates with virtualization software for automatic VM failover
- Replicates between NetApp and third-party storage (via V-Series)

Cost Reduction: Storage Efficiency



(RAID-DP®)

Protects against double disk failure with no performance penalty.



Snapshot[™] Copies

Point-in-time copies that write only changed blocks. No performance penalty.



Thin Provisioning

Flexible volumes appear to be a certain size but are really a much smaller pool.



Deduplication & Thin Replication

Removes data redundancies in primary and secondary storage.



Virtual Clones

Near-zero space, instant "virtual" copies. Only subsequent changes in cloned data set get stored.

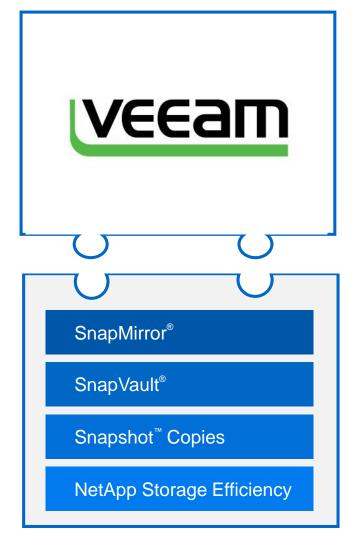


Network Efficiency

Minimizes the amount of data transferred and accelerate data protection.

Simplified Management through Integration

NetApp[°]



- Integrates versus replacing
 - Lets backup application manage NetApp IDP
 - Local Snapshots to meet tight RPOs
 - Replication for up to 98% faster protection
 - Leverages storage efficiency to reduce costs
- Eliminates risk and complexity
 - Consolidated interface for policies
 - Cataloging for rapid search & recovery
 - Leverages existing product best practices
- Reduces costs
 - Snapshot copies consume less space
 - Deduplication and compression keep costs down over time on primary & secondary
 - Integration lowers operational overhead

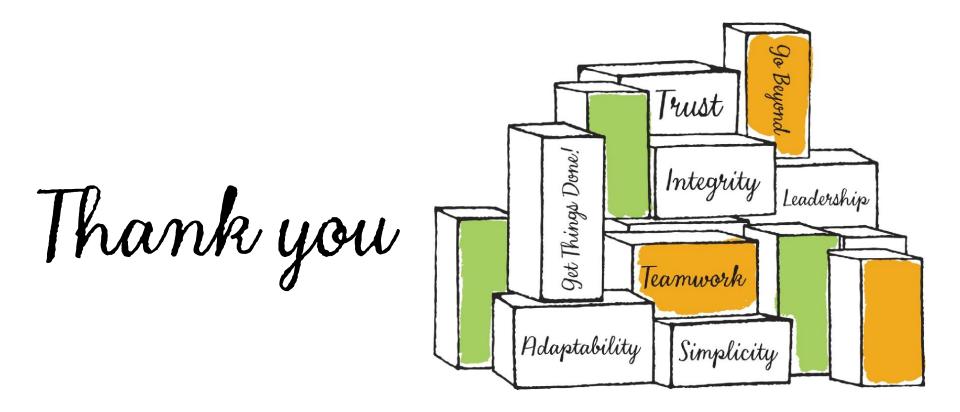
The most important features of ONTAP NetApp^{*} for Customers with Veeam?

- ONTAP Snapshots really scale up to 255 Snapshots
- ONTAP offers a (to Veeam & all access-Protocols transparent) stable & scaling sync Mirror: MetroCluster
- ONTAP offers stable and scaling async BLIF-Replications (SnapMirror / SnapVault) for any distance
- NetApp's Management functions for the Storage & VMware (cost free System Manager, VSC for vSphere & SnapCreator) can fill Veeam Gaps

NetApp and Veeam better together!

- Two proven, industry leading technologies combine:
 - Fantastic RPOs (NetApp) with the fastest RTO (Veeam)
 - Zero impact snapshots (NetApp) with industry-leading VM backup (Veeam)
 - SnapVault storage (NetApp) with application-aware VM processing logic (Veeam)
- One disruptive, innovative, and robust solution





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Veeam & NetApp Better Together

Mehmet Gonullu Presales Consultant, Middle East mehmet.gonullu@veeam.com







Alliance Partner

cisco

Preferred Solution Partner



Veeam Availability Suite

Veeam + NetApp Integration



Availability for the modern datacenter

Veeam Sackup & Replication



••••

Veeam ONE



What sets Veeam apart?

Strong R&D – history of innovation

Solid financial foundation

Impressive customer growth

Robust channel

Strategic partnerships







Alliance Partner



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Veeam is built for virtualization

50+ awards 500,000+ users 111,500+ customers <u>30,000+ pa</u>rtners



The Always-On Business



The business has changed:

- Customers, partners, suppliers, employees: everyone is connected
- Everyone needs access to information
- Anytime, everywhere

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The Challenge for IT

The always-on business





New requirements for IT:

- Access to applications and data everywhere anytime
- No patience for outage or loss
- Amount of data skyrocketing

While risk is increasing:

- More complex IT
- Outage, Data Loss
- Disaster

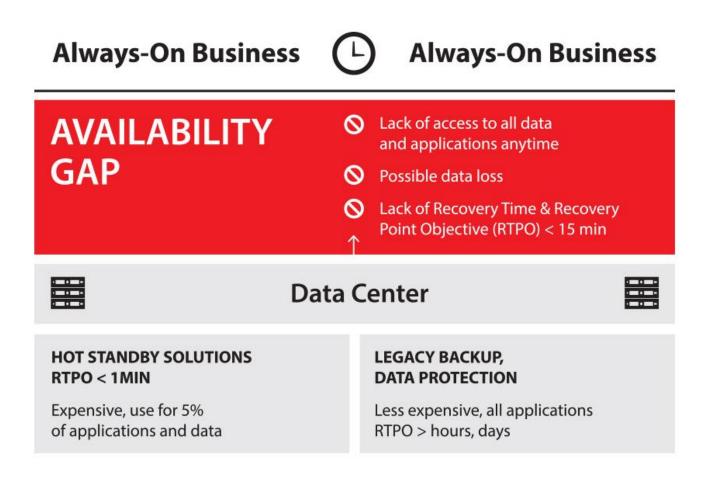
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The Key 5 Questions:

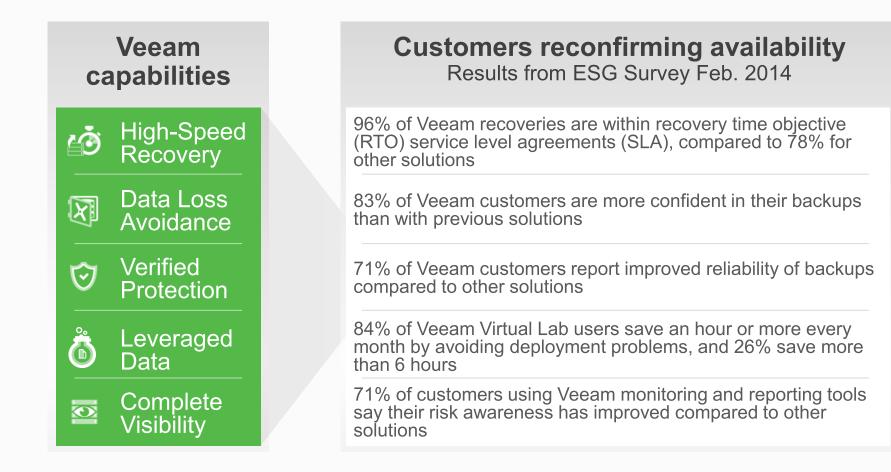
- How quickly can you recover what you need?
- What are you doing to reduce the risk of data loss?
- What are you doing to ensure everything is recoverable when you need it?
- How do you mitigate risks from new applications and changes?
- How do you detect potential issues before they have an impact?



The Availability Gap

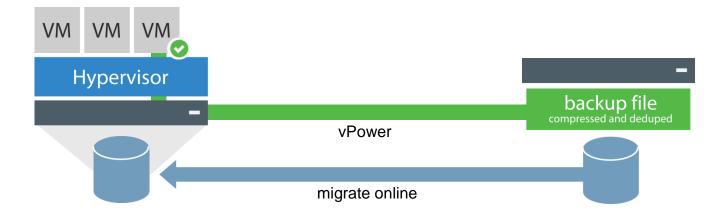


Veeam Availability Suite Enabling the Always-On Business™



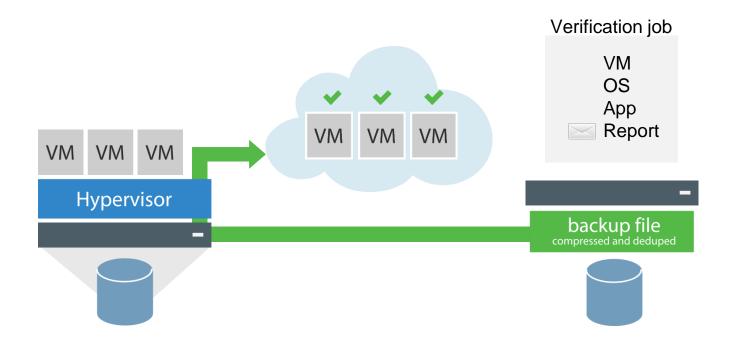


High-speed Recovery instant VM recovery





Verified Protection automated recovery verification





Application Item Recovery Veeam Explorers for Microsoft Applications

😭 Veeam Explorer for Exch	👫 Veeam Explorer for SharePoil	🎼 Veeam Explorer for Active	🍓 Veeam Explorer for Micro	soft SQL Server	_ D X
Home	Home	Home Home	Home Home		
Add Remove Store Store Mailbox Stores	Add Remove Database Database Content Databases	Add Remove Database Database Databases Export	Add Remove Database Database Database	Restore Database - Restore	
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	Reusable Content	 ▶ System (container) ▶ 2 Tests (organization ▶ 2 Users (container) 		Primary database files c:\Program Files\Microsoft SQL Server\MSSQL10_50.VEEAR Secondary database and log files	MSQL2008R2\MSSQL\DATA\Veea
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NetApp Integrated Data Protection



NetApp and Veeam: 1+1 = 3

Two proven, industry leading technologies combine:

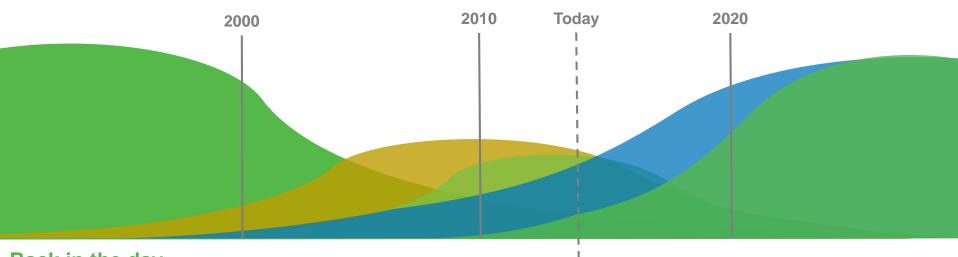
- Fantastic RPOs (NetApp) with the fastest RTO (Veeam)
- Zero impact snapshots (NetApp) with industryleading VM backup (Veeam)
- SnapVault storage (NetApp) with applicationaware VM processing logic (Veeam)

One disruptive, innovative, and robust solution

Veeam & NetApp Partnership Value Proposition

Achieve unprecedented levels of data protection combining NetApp's low RPO capabilities with Veeam's low RTO enablement

Evolution of Data Protection



Back in the day...

Backup2Disk and VTL...

Client/Server Block-level Increment ...

Snapshot-based...

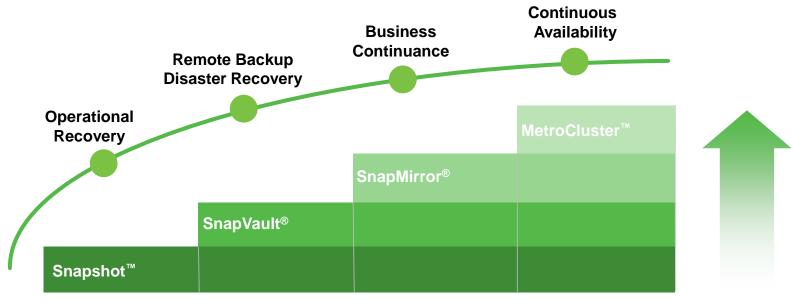
The "Cloud"...



NetApp Proprietary – Limited Use Only

Clustered Data ONTAP

Data protection portfolio



Availability



Veeam & NetApp integration

Integrating NetApp and Veeam allows users to:

- Create backups from storage snapshots up to 20 times faster than competitive products
- Recover individual items quickly and efficiently from NetApp Snapshot, SnapMirror and SnapVault
- Improve DR protection by creating instant, secondary backups from storage snapshots

Advanced storage integration with v8

- Integration in NetApp ONTAP for VMware backups
 - Restore out of NetApp Snapshots
 - Restore out of SnapVault/SnapMirror
 - Snapshot Orchestration
 - Backup from Storage Snapshot

High-Speed Recovery for VMware

Veeam Explorer for Storage Snapshots

NetApp[™]

Snap

Fantastic RPOs

Zero impact on production

Reduce bandwidth utilization

Leverage NetApp storage capabilities

Store

Block-level incremental changes

Efficient data replication

Flexible solution with multiple uses

Reduce management overhead



Recover

Fastest RTO

File-level recovery for 17 different file systems

Item-level restores for four Microsoft applications

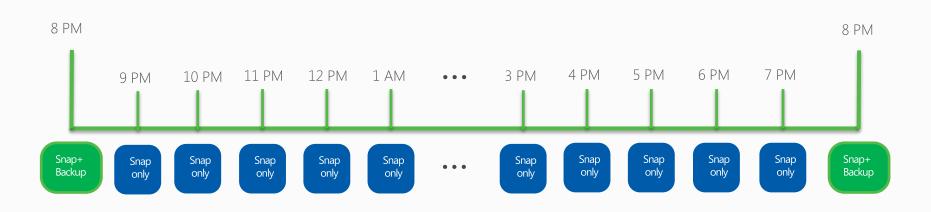
Support for

- NetApp Snapshot
- NetApp SnapMirror
- NetApp SnapVault

Better RPO with storage snapshots

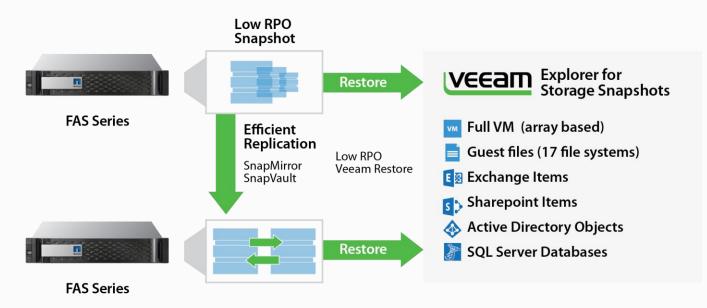
Transport data and consistency processing reduce performance of applications

- \Rightarrow Veeam Backup Processing typically "only" 1-4x a day
- ⇒ Solution: Use Storage Snapshots between the Backups (once per hour or more frequent) for better RPO





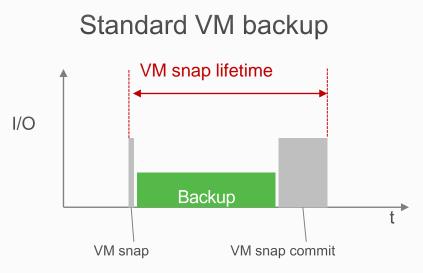
Veeam Explorer for Storage Snapshots



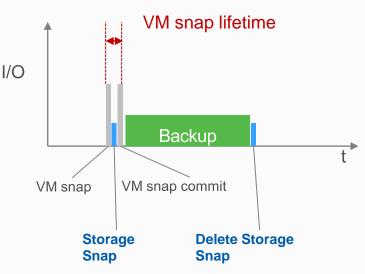
Combine low RPOs of NetApp snapshot copies with low RTOs of Veeam Explorer for Storage Snapshots

- Use crash-consistent storage snapshots created outside Veeam or schedule storage snapshots directly in Veeam
- Support for NetApp snapshot copies, SnapMirror, and SnapVault
- Included in all editions of Veeam Backup & Replication including Backup Free Edition

VMware snapshot challenges



High load at snapshot commit at storage Can take hours/days With NetApp snapshot integration



Faster commit with less data Near instant VM snapshot commit Use of storage snapshot for backup

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NetApp storage snapshots for Veeam backups

/M name	Status	Action	Duration
TAPEXCH02	Success	Inventoring guest system	0:00:01
TAPFILE01	Success	Preparing quest for hot backup	0.00.03
TAPCLIENT01	Success	Creating snapshot	0:00:03
TAPSQL01	Success	Seleasing guest	0:00:02
TAPEXCH01	Success	Collecting disk files location data	0:00:08
		Removing VM snapshot	0:00:26
		Queued for processing at 3/11/2014 10:11:31 PM	
		Required backup infrastructure resources have been assigned	
		VM processing started at 3/11/2014 10:11:35 PM	
		VM size: 100.0 GB (57.2 GB used)	

- VMware VM Snapshot only open for ~10 seconds
- Creates NetApp Volume Snapshots in the background directly after VM Snapshot creation
- Near-instant VMware VM Snapshot commit (26 seconds)
- Works with FC/iSCSI/NFS VMware datastores
- NetApp Snapshot can be used to trigger NetApp SnapVault/SnapMirror update or for Veeam backup (out of ONTAP)

NetApp snapshot orchestration

Veeam snapshot orchestration

- Use Veeam as a NetApp console
- Create manual snapshots directly from the Veeam interface
- Schedule snapshot-only "backup" jobs (lowest RPO)
- SnapMirror and SnapVault orchestration for singlepass backup into two destinations (instant "Backup Copy")

Veeam UI: Manual NetApp snapshot

Volume Tools		٧	/eeam Backup & I	Replication		
Home Volume						
Create Delete Rescan Snapshot Snapshot						
Manage Volume						
Storage Infrastructure	⊡ - Type in an object name t	o search for				
⊿ 🍘 Storage Infrastructure	Name	Creation Time	Reported Size	VMs Count		
⊿ 📊 NetApp	I VeeamSourceSnapshot_N	18.07.2014 13:59	100,0 GB	1		
⊿ 🚟 d1	snapmirror.65236069-0e	10.09.2014 05:33	100,0 GB	3		
⊿ 🕮 SVM1						
⊳ 😁 SVM1_root						
⊿ 😁 vol_iSCSI1						
Image: Sinal Sinal Sinal Sinal Create Snapshot Image: Sinal Vee Image: Vee						
< III >						
Backup & Replication						

Veeam UI: NetApp snapshot only "backup"

				Veeam B	ackup & Replica	ation
Home View Backup & Replication	D Type in an ob	ject name to search for				
⊿ 🎡 Jobs	Name	Туре	Status	Last result	Next run	Target
Backup	11 585		New Backup Job			x
 Image: Replication Image: Image: Image:	Storage Specify processing bio and customized Name Virtual Machines Storage Guest Processing Schedule Summary	Backup proxy: Automatic selection Backup repository: NetApp SnapShot (P Retention policy	r source data retrieval, b quired. himary storage snapshot d	only)		duced by this
	0	Copy backups pro recommend maint	ary destinations for this jo oduced by this job to anot aining at least 2 backups is include backup mode, n settings, automated po < Previou	ob ther backup repository, s of production data, wit compression and dedu st-job activity and other	h one of them being o plication, settings.	

Veeam UI: Scheduled NetApp SnapVault/SnapMirror

Can be triggered from Veeam's NetApp snapshot orchestration without creating a classic Veeam backup

Can be used together with Veeam Backup from NetApp Storage Snapshots to process backups out of Data ONTAP

Home View					
ackup & Replication	O Type in an object name to search for				
⊿ 🏥 Jobs ∰ Backup	New Backup Job				
In Replication In Backups In Disk	Secondary Targel Use the backups pro backups and replicas	duced by this job to satisfy backup requirement by archiving backups to tape, or efficiently creating remote			
Storage snapshots Replicas Ready	Name	Backup copy jobs: Add			
⊿ 👸 Last 24 hours	Virtual Machines	NetApp Storage			
Success	Storage	NetApp SnapVault			
-	Secondary Target	heiliove			
	Guest Processing	NetApp SnapVault Retention			
	Schedule	Creates additional backup copy by vaulting array snapshots produced			
	Summary	by this job to the secondary NetApp storage.			
		Number of snapshot copies to retain: 14 文			
		OK Cancel			
		< Previous Next > Finish Cancel			
L		11			

Veeam UI: Browse and restore from NetApp primary snapshot

VM Tools Home Virtual Machine Virtual Machine Instant VM Guest Guest Application Recovery Files + Items + Restore	Type in an object name to search	n for	Veeam Backup &	Replication
 ▲ Storage Infrastructure ▲ NetApp ▲ WetApp ▲ WetApp ▲ SVM1 ▷ SVM1_root ▲ ♡ vol_iSCSI1 ⓐ snapmiror.65236069-0e87-11e4-a9b1-123478563412_214 ④ VeeamSourceSnapshot_ds54SCSI-ApplicationAware-SnapC ⓐ Nourly.2014-09-10_0605 ⓐ hourly.2014-09-10_0605 ⓐ hourly.2014-09-10_0055 ⓐ hourly.2014-09-10_0055 ⓐ hourly.2014-09-10_0105 ⓐ daily.2014-09-10_0010 ⓐ VeeamSourceSnapshot_ds6-NFS-ApplicationAwareBackup 		Host esxi55u1 i55u1 i55u1 is5u	harePoint items	Size 40,0 GB 40,0 MB 2,0 GB

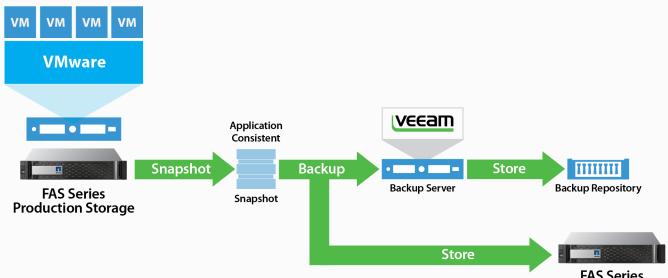
Veeam UI: Browse and restore from NetApp SnapVault/SnapMirror

VM Tools		Veeam Bac	kup & Replication
Home Virtual Machine Virtual Machine Virtual Machine Virtual Machine Virtual Machine Virtual Machine Virtual Machine Virtual Machine Virtual Machine Virtual Machine			
Storage Infrastructure	D Type in an object name to search	ch for	
⊿	Name AD-Test	Host State <unknown> Application-consistent snapshot</unknown>	Size 40,0 GB
 ▷ III dl ▲ III dl ▲ III cl2 ▲ III cl2 ▲ SVM2_root ▲ SVM2_root ▲ SVM2_root ▲ SvM2_root ▲ Svappintor.65236069-0e87-11e4-a9b1-123478563412_2141 ⓐ snapmirror.65236069-0e87-11e4-a9b1-123478563412_2141 ⓐ veeam Source Snapshot_ds54SCSI-Application Aware-Snap0 ⓐ Veeam Source Snapshot_Netapp 4SCSI-SAN Snapshots-Only ▲ ♥ vol_rnfs1_vault ⓐ Veeam Snap Vault_ds6-NFS-Application AwareBackup-Keeps ⓐ Veeam Snap Vault_ds6-NFS-Application AwareBackup-Keeps ⓐ Veeam Snap Vault_ds6-NFS-Application AwareBackup-Keeps 		known> Application-consistent snapshot <	40,0 MB
VeeamSnapVault_Netapp-NFS-SANSnapshot-Snapvault.20			

3-2-1 Backup Concept Veeam – NetApp – VMware



Veeam Backup from Storage Snapshots with NetApp



Backup **directly** from NetApp snapshot copies

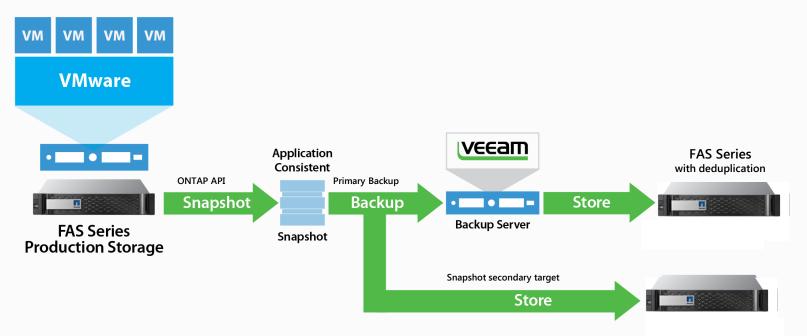
FAS Series SnapVault / SnapMirror

- No datastore mount to proxying ESXi
- No VMFS resignaturing
- No temporary VM registration or host configuration cleanup

Leverages VMware CBT (patent pending)

• Up to 20x faster than competing solutions

Veeam Secondary Backup to NetApp SnapMirror & SnapVault

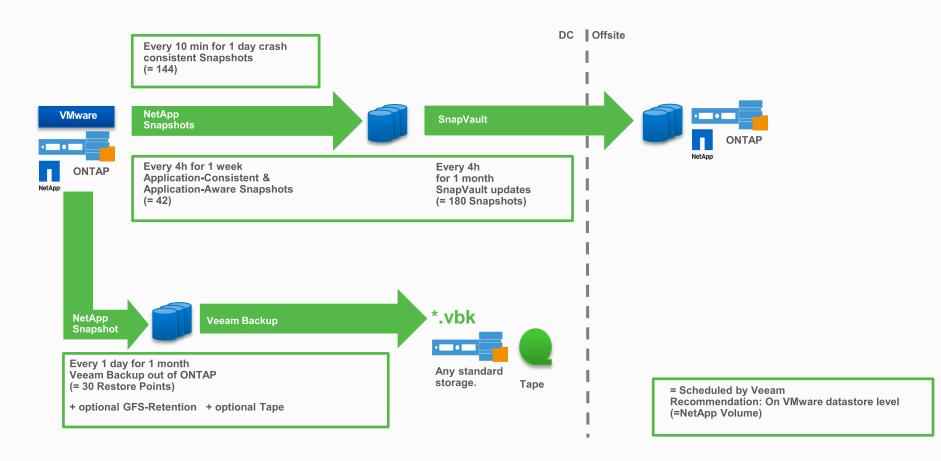


Data Loss

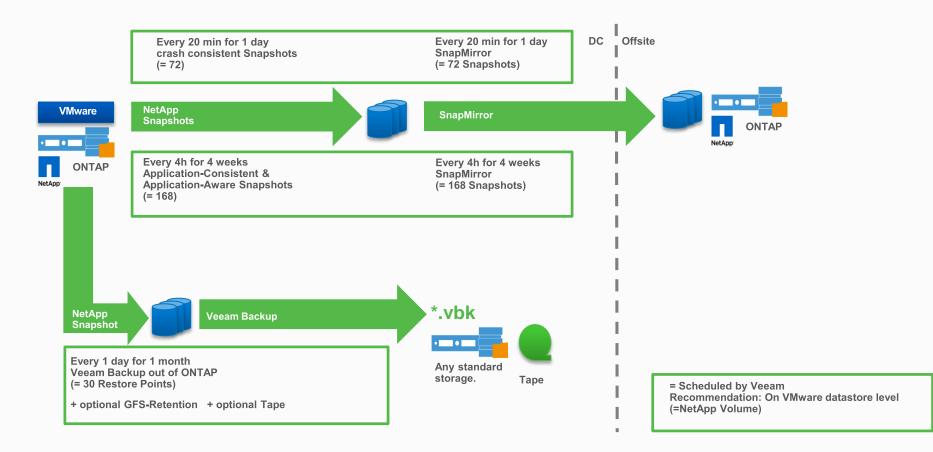
Avoidance

Meet the **3-2-1 backup rule** for maintaining three copies of data efficiently Perform primary and secondary backups directly from only one NetApp Snapshot Instant secondary, **application consistent**, backup Faster DR protection, lower management costs, reduced infrastructure impact

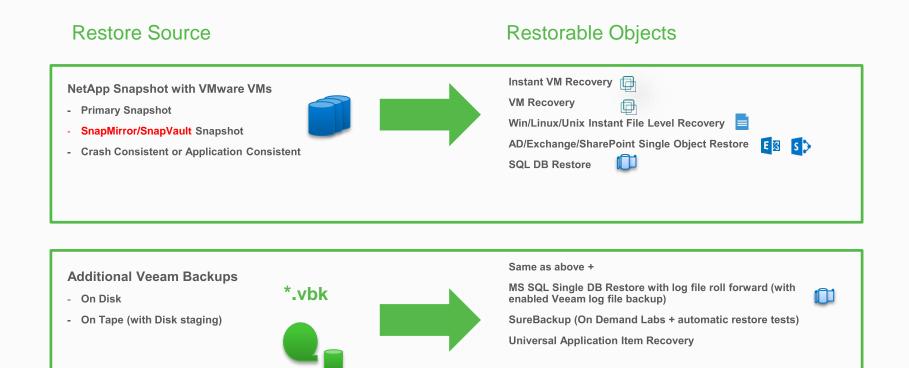
Concept 1 – ONTAP Storage SnapVault + Veeam v8



Concept 2 – ONTAP Storage SnapMirror + Veeam v8



Restore from NetApp Snapshot/SnapVault/SnapMirror



You can use NetApp SnapManager and/or NetApp SnapCreator to complement Veeam for additional applications like Oracle, SAP, SAP HANA, DB2, Informix and others

Veeam & FlexPod

Veeam and FlexPod Benefits

- High-speed recovery options to easily recover individual items or entire VMs from NetApp Snapshot[™], SnapMirror[®] and SnapVault[®]
- Fast, application-consistent recovery points by orchestrating NetApp Data ONTAP® to create snapshot only backups
- Reduced risk of data loss by automating the creation of secondary backups from NetApp SnapVault
- Verified protection by automating the testing of backups in the background to guarantee the recoverability of every file, application and virtual machine (VM)
- A cloud ready platform that enhances data availability by providing an efficient way to get backups off site to a service provider

Veeam / NetApp / Hyper-V

Hyper-V + Veeam + NetApp

Veeam's backup processing is able to use storage snapshots of NetApp ONTAP and E/EF-Series Storage

- Uses NetApp hardware VSS provider
- Veeam's Changed Block Tracking Technology for Hyper-V used for CBT-based incremental forever backups (and VM replicas)
- Like VMware, all restore possibilities possible but it's not possible to restore out of a NetApp snapshot that contains Hyper-V VMs
- All Veeam advanced features (SureBackup/Virtual Lab/On-Demand Sandbox/Self Service, etc.) are available too

System Requirements

NetApp System Requirements

Firmware Data ONTAP 8.1 or 8.2

Hardware

NetApp FAS, FlexArray/V-Series, Data ONTAP Edge VSA and IBM N-series

Connectivity modes

NFS, iSCSI and Fibre Channel (FC) Proprietary NFS client for best reliability and performance

ONTAP deployment modes

7-mode iSCSI/Fibre Channel (no licenses required; FlexClone license recommended) 7-mode with NFS (FlexClone license required; limited use with SnapRestore or NDMP) Clustered ONTAP (FlexClone or SnapRestore required)

LUN cloning

Traditional clone and FlexClone (recommended)

Veeam works with NFS and iSCSI/FC datastores with VMware VMs based on VMDK disks Relevant NetApp licenses required for SnapVault or SnapMirror use

Veeam licensing

Licensed per virtualization host socket

Restore out of NetApp Snapshot (Primary/SnapMirror/SnapVault) with Veeam Explorer for NetApp SAN Snapshots (for VMware)

- Veeam Backup Free Edition includes Application Single Object Export
- Enterprise Edition includes Application Single Object Restore to original places
- Snapshots can be triggered manual or by non Veeam scheduler

Veeam Backup from NetApp Storage Snapshot and Veeam/ NetApp Snapshot Orchestration (for VMware)

- Veeam Backup & Replication Enterprise *Plus* edition or
- Veeam Essentials Enterprise *Plus* edition or
- Veeam Availability Suite Enterprise Plus edition

Questions?

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Alliance Partner