

Transform the DataCenter with Cisco HyperFlex & Veeam Availability Solution

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1 + 1 = 3
Cisco + Veeam
Better Together



Always-On Availability

Welcome to Veeam



267,500

Customers worldwide

4000+ new per month

74% of Fortune 500

16 700 Cloud & Service Provider

Goal of

\$1B

revenue by 2018

84% growth

in the Enterprise

+73

Veeam's Net Promoter Score (NPS)

+31.8 Industry average

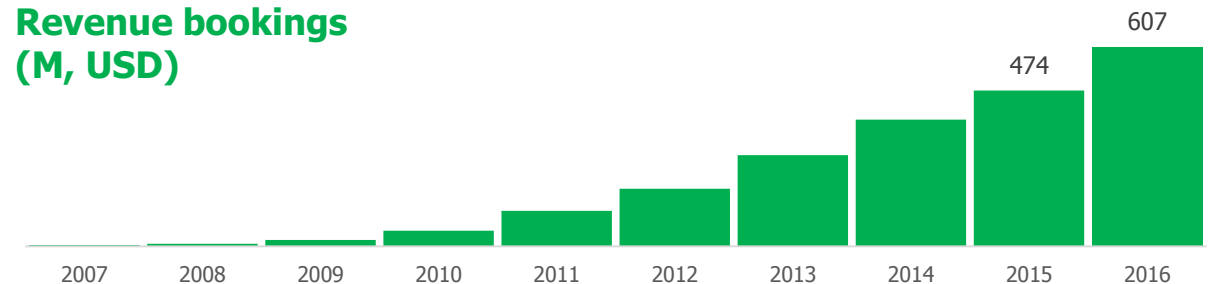
3 000+

employees
worldwide

15.3M

VMs protected
in **180** countries

Revenue bookings
(M, USD)



Industry Leader – Veeam



2017 Magic Quadrant for Enterprise Backup and Recovery Solutions

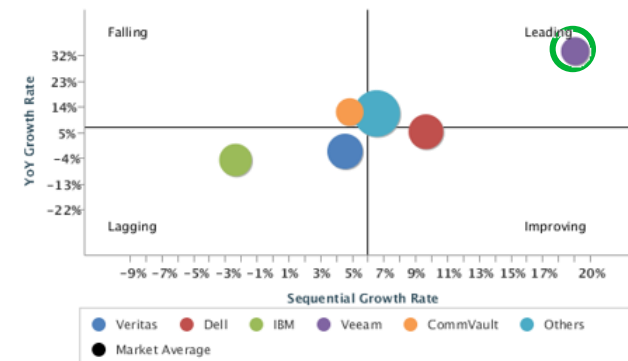
Figure 1. Magic Quadrant for Data Center Backup and Recovery Solutions



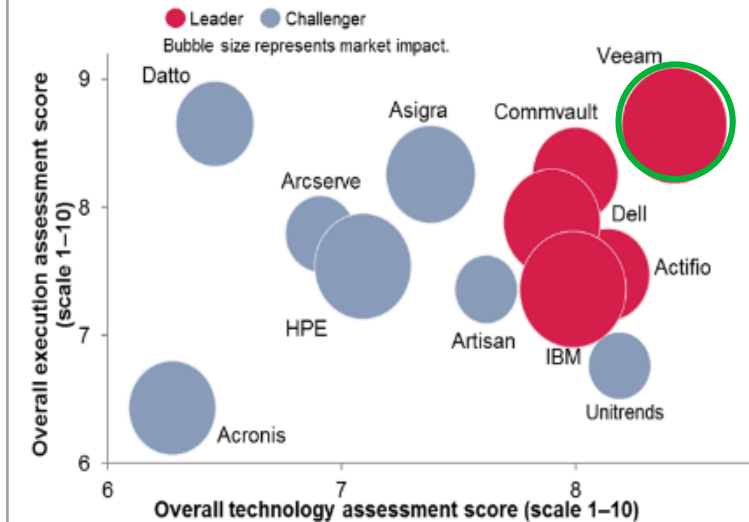
2016H2 Semiannual Software Tracker Report

Vendor Momentum - Top 5 Vendors 2016H2 (Vendor Revenue, US Dollar, M)

Vendor Momentum: Top 5 by Vendor, 2016H2 (Vendor Revenue, US Dollar, M)



Decision Matrix: Data Availability and Protection Solutions for the Cloud Era, 2016-17

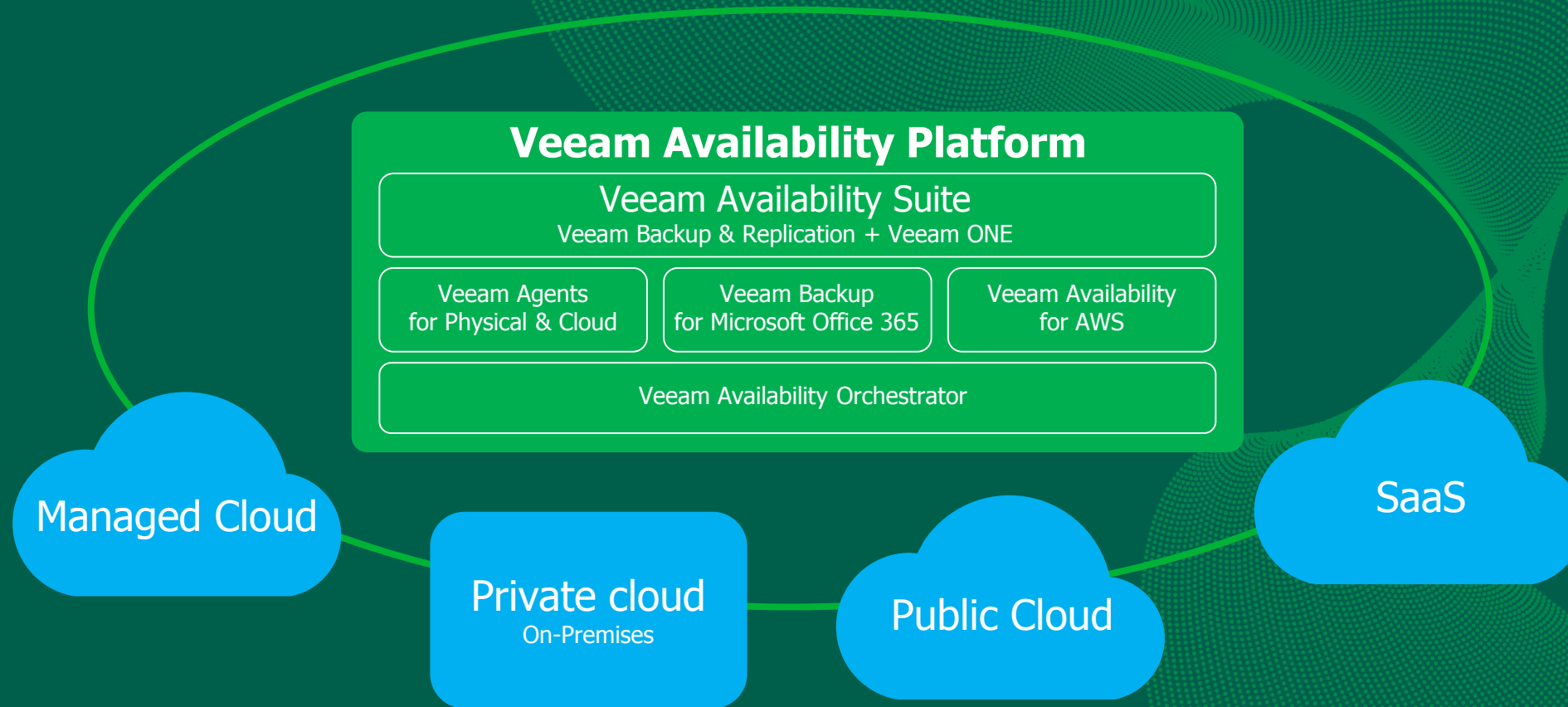


Sources: Gartner: Magic Quadrant for Data Center Backup and Recovery Solutions 2017 and IDC
 IDC, Worldwide Data Protection and Recovery Software Market Shares, 2015: Steady On, Doc # US41573316, Jul 2016

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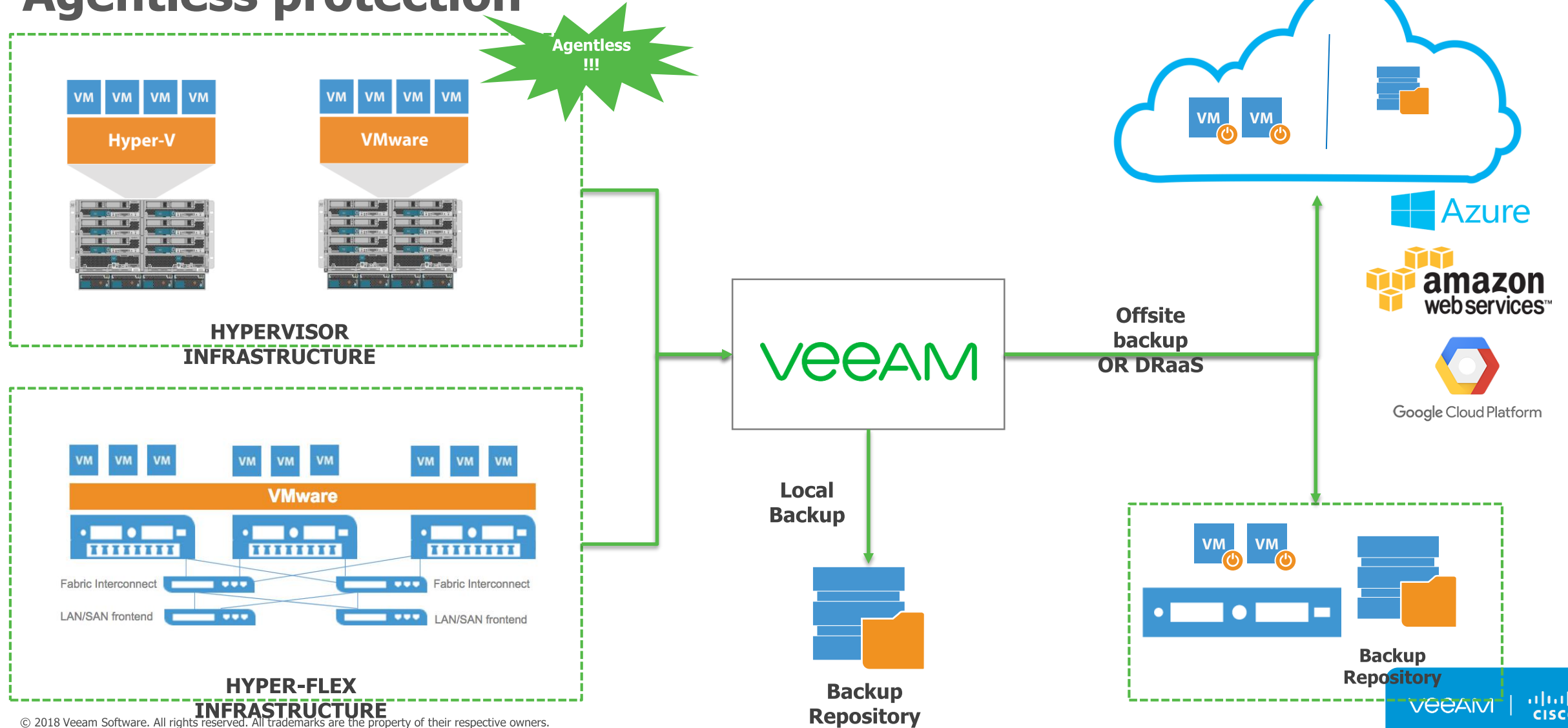
Availability for the Always-On Enterprise

Any App, Any Data, Any Cloud



Availability for The Always-ON Enterprise

Agentless protection



Flexible Recovery

57 restore options

8 Restore of Oracle Database new in 9.5

Authorized personnel can use Veeam Backup & Replication Manager to restore the necessary Oracle Server Backup server VM backups. The restore process goes as follows:

- The user logs in to Veeam Backup & Replication Manager using an account with the sufficient permissions.
 - The user navigates to the desired backup jobs Data Center Databases.
 - The user enters the name of the Oracle server holding the desired database, or clicks the link to add a server from the list of available Oracle server VM backups.
 - The user selects Data Center and the desired database.
- Note: User credentials for connecting to the restore procedure via Enterprise Manager will be picked as follows: first, the user that is the account of the backup job that contains Oracle server VM, or the account which is currently logged in. If it fails, the user will be prompted to supply the credentials with sufficient rights.
- Note: Two different restore scenarios can be performed according to what is needed: 1-click restore to the original location or restore with custom settings.



15 Self-service portal restore

Veeam Backup & Replication Manager allows users with local administrative rights for infrastructure VMs to browse, search and request OS files within restore points of the those VMs. To access the portal the user should:

- Start the Veeam Self-Service Portal by clicking on the Desktop or accessing the corresponding URL, for example https://vmsession.manager_host:8443/#!/restore
- Login when prompted, entering domain username and password.
- Find the App page with the File tab by default. The page shows guest OS files and the latest restore point of the VM to which a logged-in user has local administrative rights.
- Choose 'select an option' or 'pick a different VM' link to search to a VM depending on file.
- Now, the user can perform all operations supported by VM guest file by Veeam Backup & Replication Manager.



16 VM from tape directly to infrastructure new in 9.5

Veeam Backup & Replication performs the following steps:

- The VM from the tape restore job checks the Backup Catalog in the Veeam Agent for the target server to compare the needed backup files.
- The Veeam Agent for the target server is prompted to read the required backup files from the tape. The first file reads to metadata and cache it on the target server.
- Using the cached data, Veeam builds a map of data blocks with references to the VM configuration file and the VM disk data.
- Veeam loads the VM for the second time and restores the VM configuration file to enable the original local or Veeam agent to restore the VM configuration file up to the backup date. To restore to another location, Veeam copies the VM configuration file and registers the VM on the target host.
- Veeam loads the tape for the third time and restores the VM disks. Veeam reads the tape sequentially and using the map of data blocks, copies the VM data data.



21 PowerShell cmdlets

Veeam Backup & Replication comes with PowerShell cmdlets - a special Microsoft Windows PowerShell 2.0. The Veeam Backup PowerShell cmdlets allow an administrator to do almost all operations that are available in the user interface, including restore scenarios. Veeam PowerShell cmdlets are actions that are performed via Veeam Backup & Replication UI.

Here is a list of cmdlets that help to perform restore operations:

Operation/Platform	Aliases	Support
Restore job	Get-VBRRestoreJob	Get-VBRJobType
Restore VM Configuration file	Set-VBRVMConfigurationFile	Set-VBRVMConfigurationFile
Restore guest Windows OS file	Get-VBRWindowsFile	Get-VBRWindowsFile
Restore guest Windows OS file recovery search	Get-VBRWindowsFileRecovery	Get-VBRWindowsFileRecovery
Restore guest Windows OS file recovery search with custom settings	Get-VBRWindowsFileRecoveryCustom	Get-VBRWindowsFileRecoveryCustom
Restore guest Windows OS file recovery search with custom settings and recovery search	Get-VBRWindowsFileRecoveryCustomSearch	Get-VBRWindowsFileRecoveryCustomSearch
Restore guest Windows OS file recovery search with custom settings and recovery search and recovery search	Get-VBRWindowsFileRecoveryCustomSearchAndRecoverySearch	Get-VBRWindowsFileRecoveryCustomSearchAndRecoverySearch
Restore guest Windows OS file recovery search with custom settings and recovery search and recovery search and recovery search	Get-VBRWindowsFileRecoveryCustomSearchAndRecoverySearchAndRecoverySearch	Get-VBRWindowsFileRecoveryCustomSearchAndRecoverySearchAndRecoverySearch

33 Direct restore to Microsoft Azure new in 9.5

Veeam Backup & Replication can restore physical and virtual machines from backups residing in the on-premise environment to Microsoft Azure. The restore process goes as follows:

- If an Agent proxy is used for restore, Veeam Backup & Replication performs the following steps:
- Veeam Backup & Replication converts data of a backup job on the source to the VHD format and uploads converted data to blob storage in Microsoft Azure.
- Veeam Backup & Replication requests uploaded data to the backup server.
- Then, it prepares disks for VM restore (creating virtual disks, configuring virtual disks and so on).
- Veeam Backup & Replication connects via prepared disks from the backup server.
- If an Agent proxy is used, Veeam Backup & Replication powers it off after a timeout.
- Veeam Backup & Replication registers a Microsoft Azure VM with the prepared disks, powers on and configures the Microsoft Azure agent on the machine.



34 Quick Rollback

For external restores, Veeam Backup & Replication can recover only those data blocks that are necessary to restore the VM or VM disk to an earlier point in time. Quick Rollback significantly reduces the recovery time and has little impact on the production environment.

To perform quick rollback, Veeam Backup & Replication uses the changed block tracking technology. Active Windows OS for servers or production Oracle DB server with Reverse Change Tracking for Hyper-V.

- Veeam Backup & Replication queries Veeam OpenFS in Veeam OST driver to get CBT information for the current VM state.
- Then, it compares this information with the CBT information in a backup file, detecting all of data blocks that need to be restored back to the state of the VM disk in an earlier point in time.
- Rolling back the VM disk file will work only prior to the operation.
- Rollback copies only changed blocks from backup file to production datasets.



35 U-Air restore

Veeam Universal Application from-level recovery (U-AIR) allows the restore of individual application areas that were accidentally deleted or corrupted, directly from old backup.

The typical restore procedure includes the following steps:

- The user downloads and installs the U-AIR agent on his machine.
- Then, he starts the U-AIR agent and submits a virtual file request, which is sent over to Veeam Backup & Replication Manager and is registered there.
- The Enterprise Manager administrator receives an e-mail about a new file request submitted by the user.
- The administrator makes sure that the user is eligible for access to the data from the corresponding backup.
- The administrator approves or denies access using Veeam Backup & Replication Manager. If approved, the administrator sets the request approval needed to select the recovery parameters for the backup job that should be started in order to locate the requested virtual file.
- Once the file is ready, the user receives a notification from Veeam Manager.
- The user can now start application-level recovery.



37 Veeam Explorers

Veeam Explorers give administrators better options for handling the challenges of data protection and recovery of the five largest Tier 1 IT infrastructure applications: SQL, AD, Exchange, SharePoint and Oracle. Users can restore **entire components** that have been protected with **the R3 workflow**.

Veeam Explorer for Microsoft Active Directory: Active Directory objects are recovered more broadly ranging in AD's functional level (including user and computer accounts) password hashes and group objects, before.

Veeam Explorer for Microsoft Exchange: Restoring items from the Exchange folder used by Exchange when Intergate folders or single-item recovery features are enabled, restoring from on-line databases (LDB) created by Veeam Backup for the Microsoft Office 365.

Veeam Explorer for Microsoft SharePoint: Item-level recovery from Microsoft SharePoint 2010 content databases, detailed as restore report providing restore status for each object.

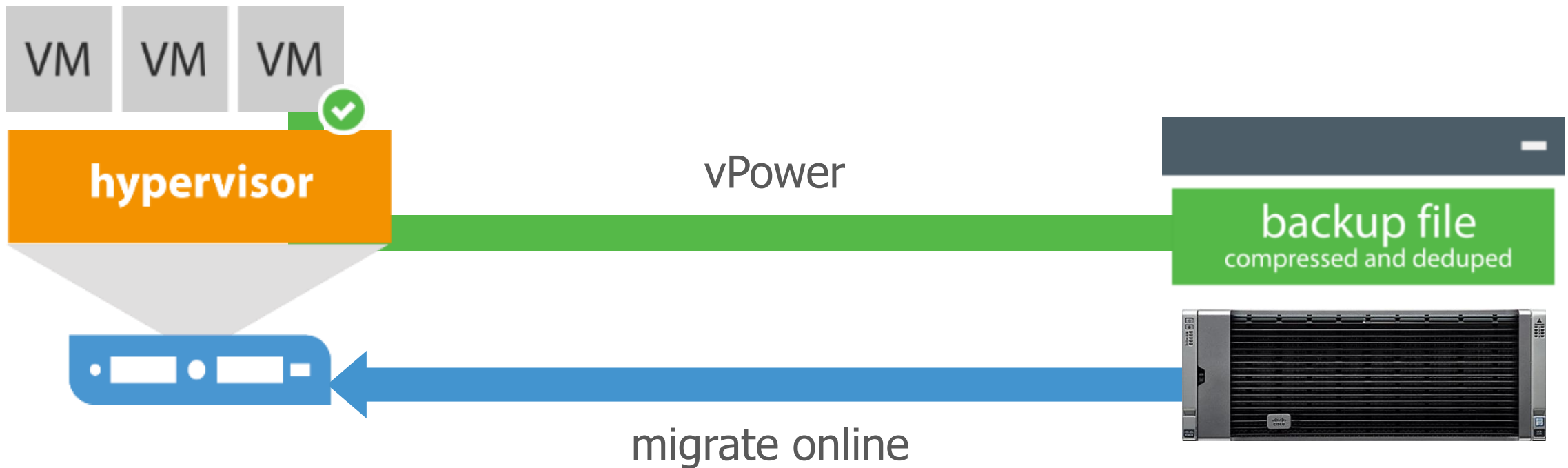
Veeam Explorer for Microsoft SQL Server: Database-level, table-level and row-level recovery from Microsoft SQL Server 2016 including SQL objects from the following table types: system-generated temporal tables, memory-optimized tables (including CLR), and the table.

Veeam Explorer for Oracle: Restoring Oracle database parameters, slightly improved table-level recovery by restoring specific database management operations.



High-speed Recovery

instant VM recovery



High-speed Recovery

Granular File level

Windows / Linux

High-Speed Recovery



The screenshot displays the Veeam File Level Restore interface. The main window shows a file list for 'ALPUBUNTU01.vmdk' with columns for NAME, SIZE, DATE MODIFIED, PERMISSIONS, OWNER, and GROUP. The 'Files' folder is selected in the left-hand navigation pane. A 'Restore Point' dialog is open, showing a table of available restore points.

Created	Type
1 day ago (11:00 PM Mond...	Increment
8 days ago (11:00 PM Mond...	Increment
15 days ago (11:00 PM Mon...	Increment
22 days ago (11:01 PM Mon...	Full

The file list contains the following items:

NAME	SIZE	DATE MODIFIED	PERMISSIONS	OWNER	GROUP
Critical Document.odt	10.0 KB	11/2/2015 10:58 AM	rw-r--r--	root	root
Critical Spreadsheet.ods	12.0 KB	11/2/2015 10:59 AM	rw-r--r--	root	root
Veeam Preso.odp	12.8 KB	11/2/2015 11:00 AM	rw-r--r--	root	root



Application Item Recovery

Veeam Explorers for Microsoft Applications

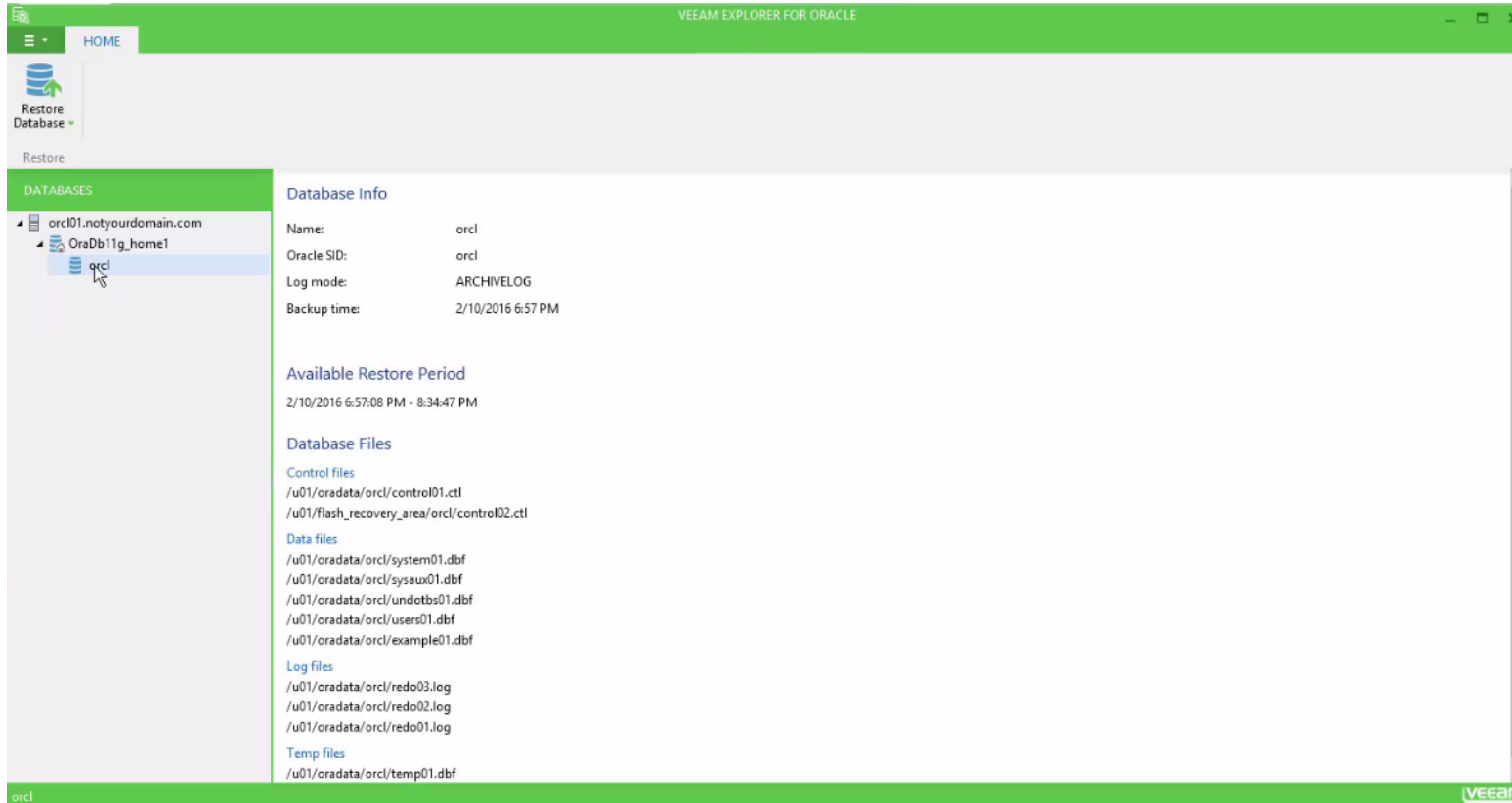
The image displays four instances of Veeam Explorer for Microsoft applications, each showing a different application's data structure:

- Veeam Explorer for Exchange:** Shows mailbox stores like AtlantaDatabase.edb, ColumbusDatabase.edb, and OhioDatabase.edb.
- Veeam Explorer for SharePoint:** Shows content databases for a user named Chris Johnson [SALES], including sites like Contoso and Content.
- Veeam Explorer for Active Directory:** Shows databases for ntds.dit, including a fiji.local site with various organizational units.
- Veeam Explorer for Microsoft SQL Server:** Shows a VEEAMSQL2008R2 instance with a VeeamBackup folder. A context menu is open over this folder, showing options:
 - Export Database...
 - Export Database to Desktop\VeeamBackup
 - Restore Database...
 - Restore Database to SHELL\VEEAMSQL2008R2

Application Item Recovery

Veeam Explorers for Oracle Database

High-Speed
Recovery



This new Explorer provides three key capabilities:

- Agentless transaction **log backup** (low RPO)
- **Log replay** for point-in-time database recovery
- **Transaction-level** recovery **FIRST**

Supported:

- Oracle on both **Windows and Linux**
- Oracle Automatic Storage Management (**ASM**) **FIRST**

Veeam Explorer for Storage Snapshots

Restore VM / File / Mailbox from Storage Snapshots

High-Speed
Recovery

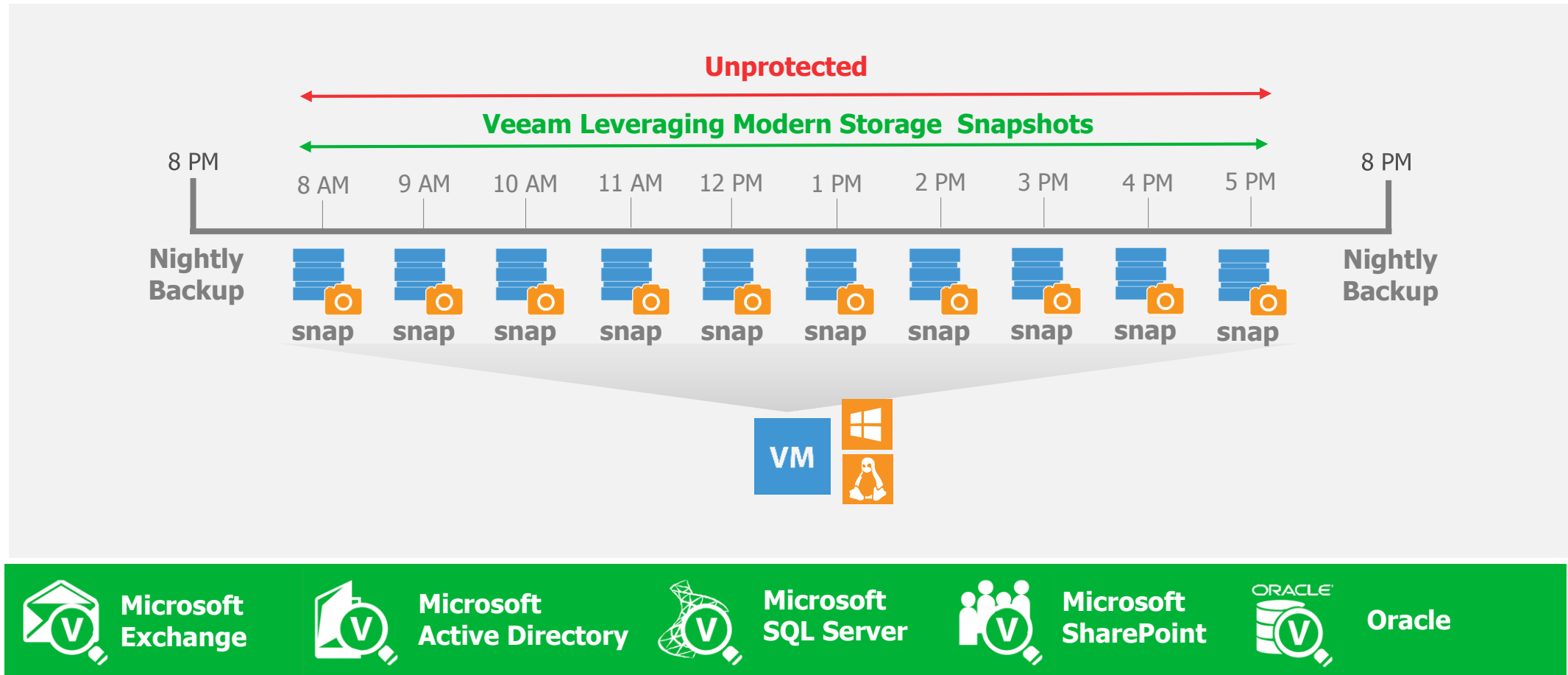


The screenshot shows the Veeam Explorer for Storage Snapshots interface. On the left, a tree view displays the storage infrastructure hierarchy: Storage Infrastructure > HP 3PAR StoreServ > 172.18.48.24 > SE_Demos. A list of snapshots is shown, with 'SE_Demos.1455725701' selected. The main pane displays a table of objects with columns for NAME, ESX, and SIZE. A context menu is open over the selected object, showing options for 'Instant VM recovery...', 'Restore guest files', and 'Restore application items'. The 'Restore application items' option is expanded, showing sub-options for Microsoft Active Directory objects, Microsoft Exchange mailbox items, Microsoft SharePoint content, Microsoft SQL Server databases, and Oracle databases.

NAME	ESX	SIZE
ALPOSECanFe		32.1 GB
ALPOSECentr		31.9 GB
ALPOSEEast8		29.6 GB
ALPOSELatam		
ALPOSEWest8	atlesxi07.ga.local	



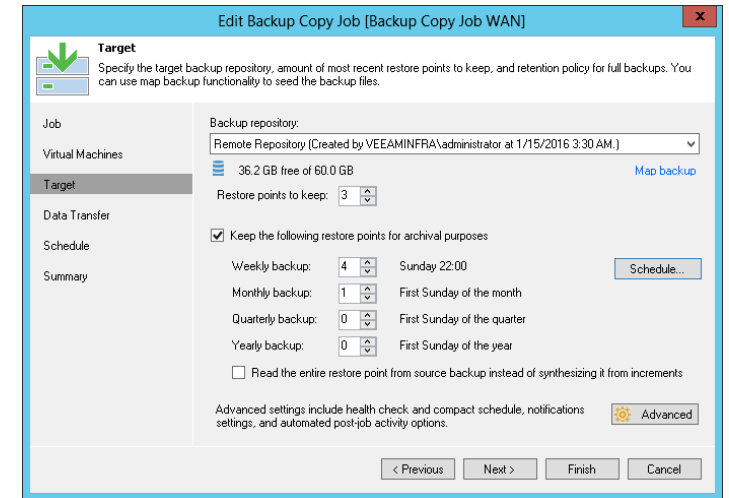
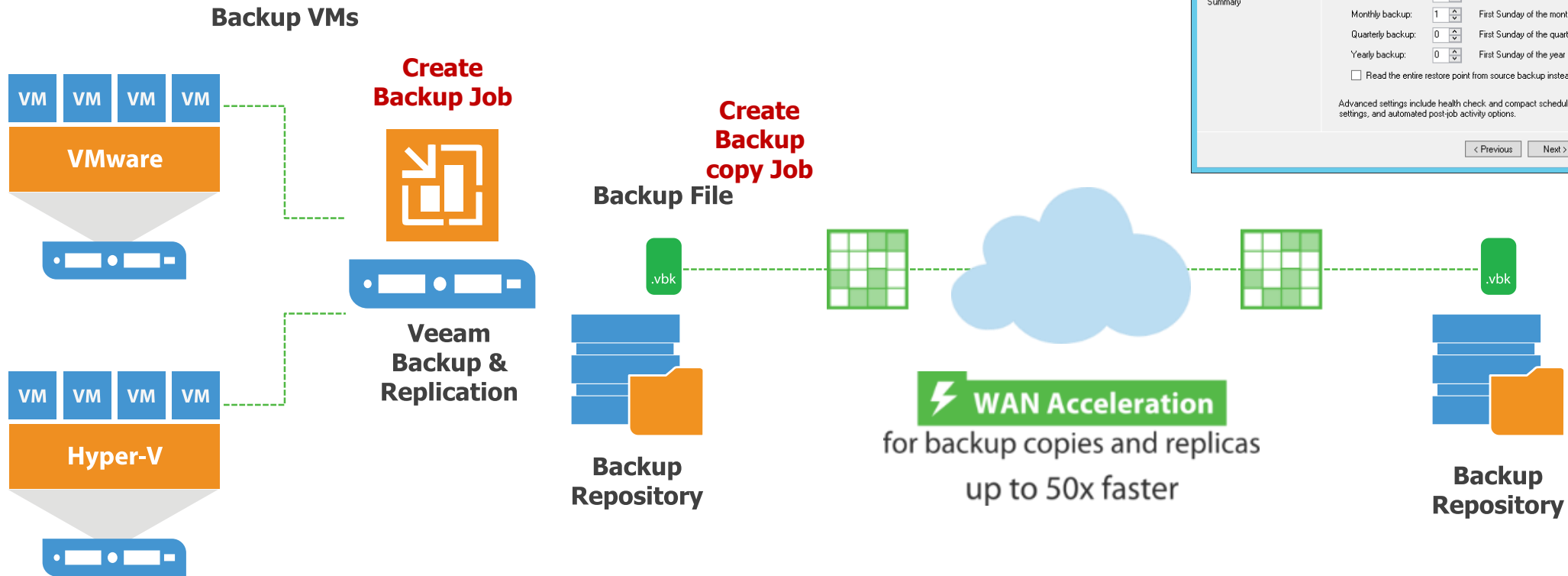
Recovery from Veeam Backup



Veeam Explorer Series – Enables full or granular restores

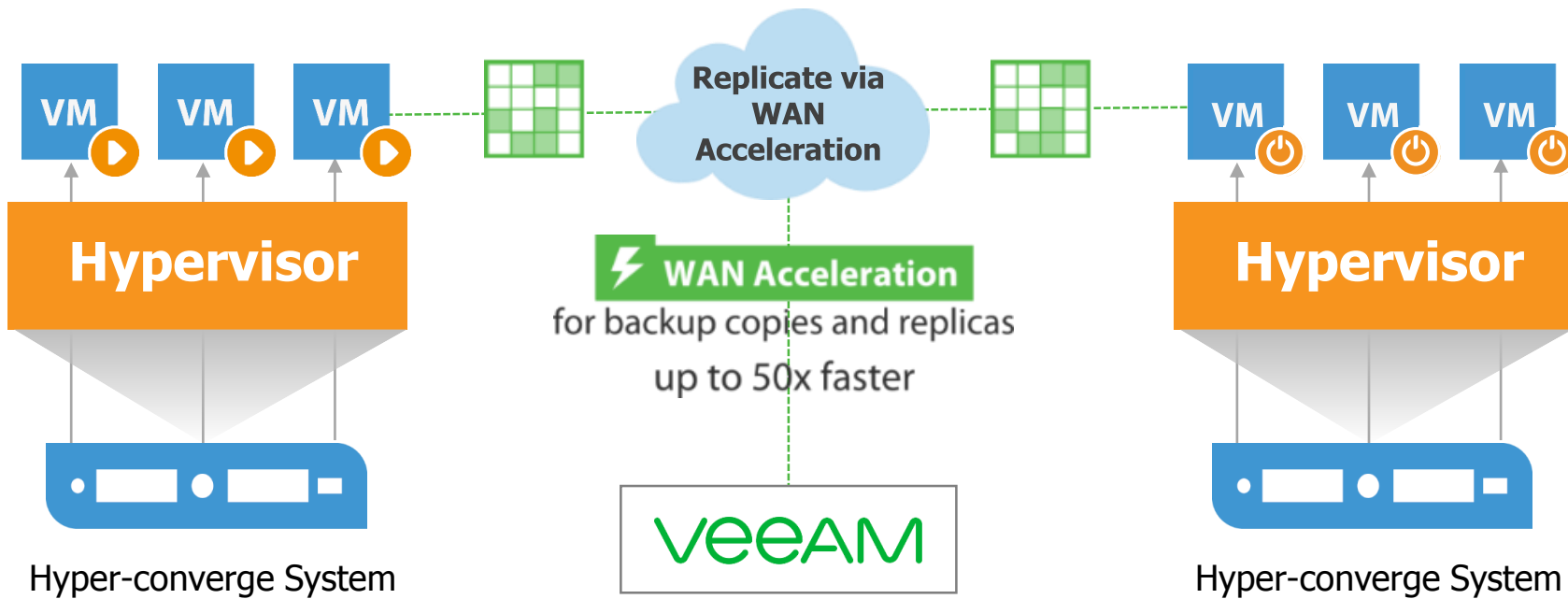
Data Loss Avoidance

Replication Backup file to offsite



Data Loss Avoidance

3-2-1 Rule with Veeam



Host-based replication



- HA and DR: replicate onsite for high availability, offsite for DR
- WAN support: numerous optimizations for efficient WAN replication
- Multiple restore points: protects against corruption

Assisted failover

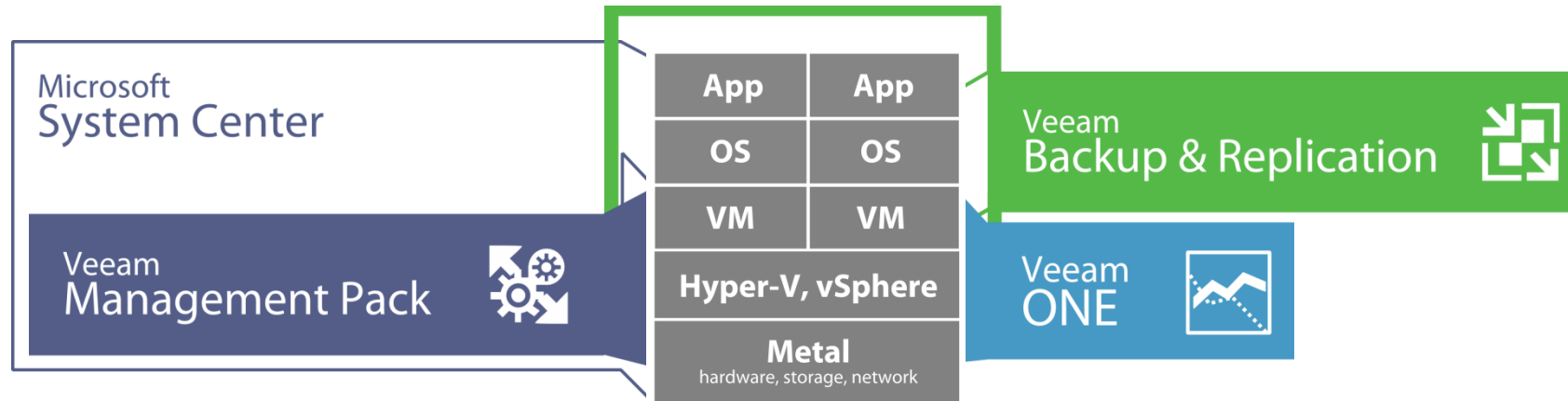
- Failover individual VMs
- Automatically re-IP after failover

Real failback

- Delta sync
- 1-click and confirm – for one or several VMs
- Automatically re-IP after failback

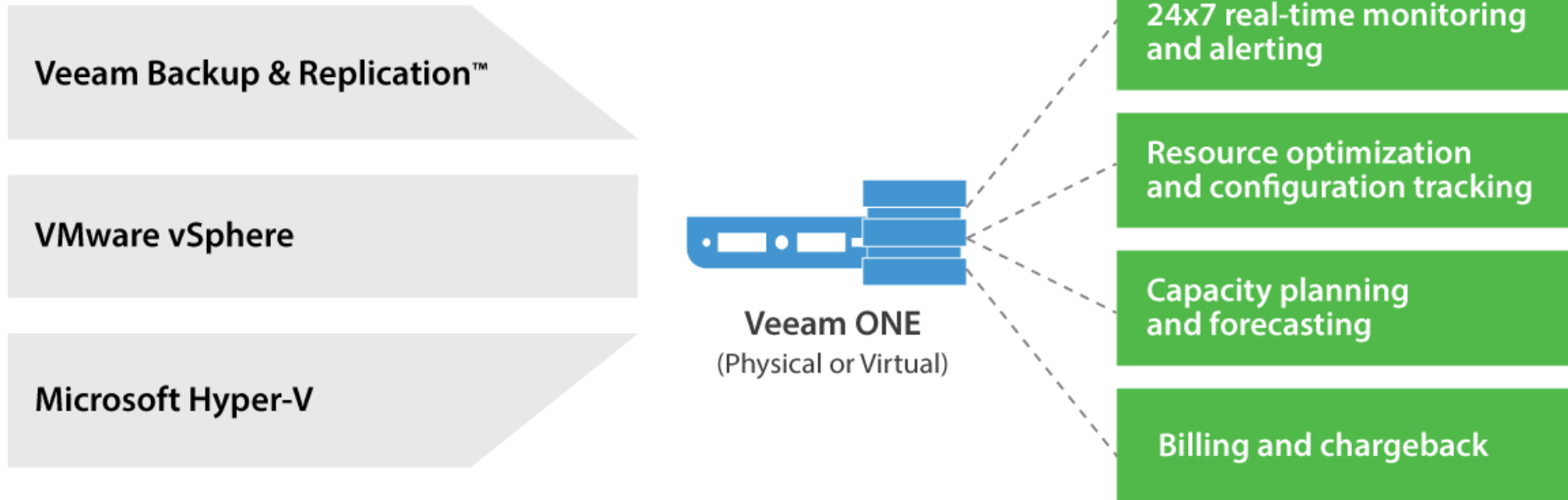
Complete Visibility

monitoring and reporting



Complete Visibility

Veeam ONE 9.5

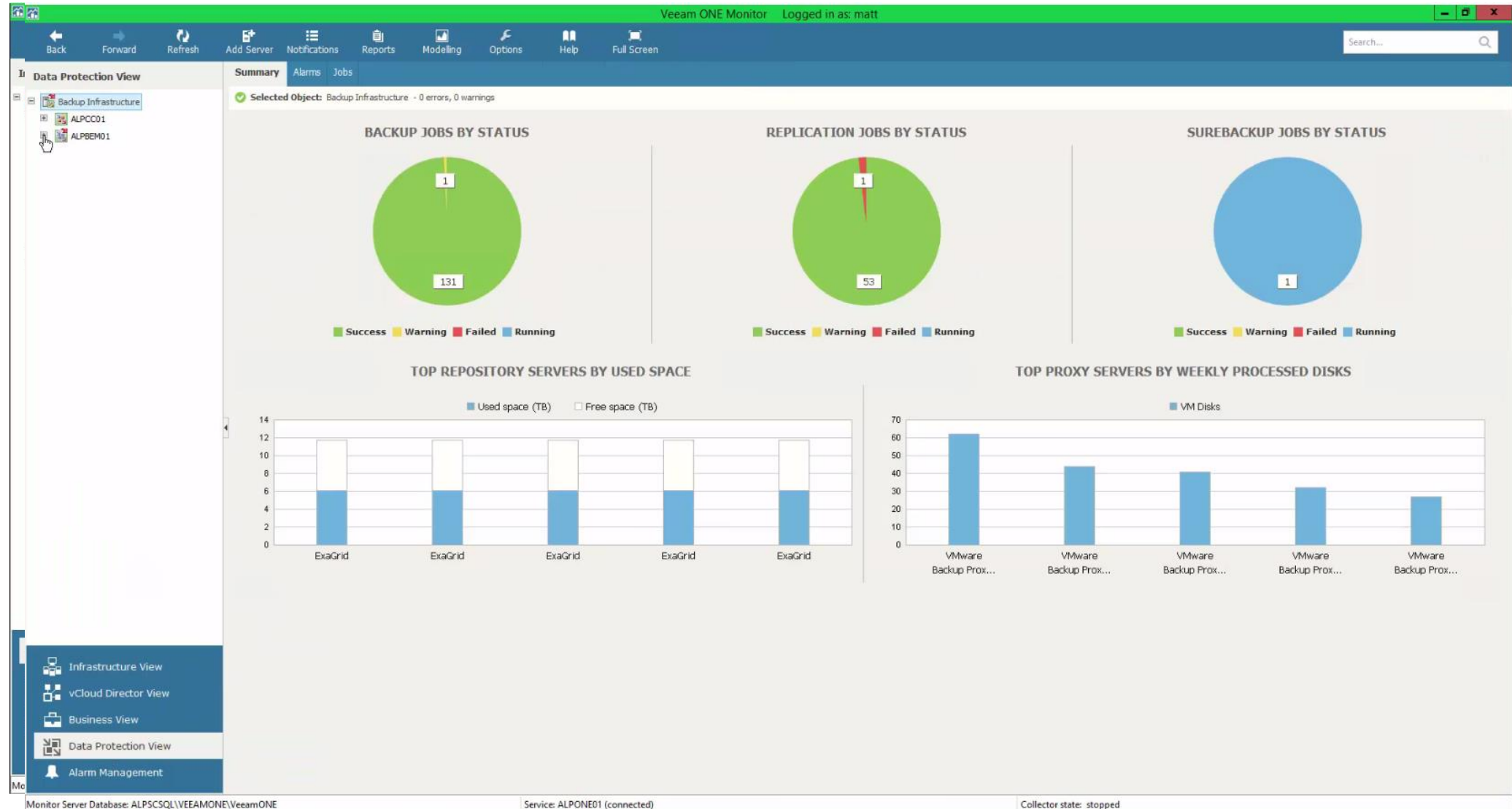


New features include:

- Chargeback and billing for virtual and backup infrastructures
- Advanced deployment scenarios for enterprises
- Support for Microsoft Hyper-V 2016
- Additional backup report pack customizations

Complete Visibility

Get the BIG picture



Complete Visibility

Data Protection View

The screenshot displays the Veeam ONE Reporter interface. The browser address bar shows the URL `alpone01:1239/Dashboard/#Main`. The page header includes the Veeam ONE logo, the word "REPORTER", and the tagline "Advanced monitoring, reporting and capacity planning". On the right side of the header, it indicates the user is logged in as "GA\matt" with a "Sign out" link. Below the header, there are navigation tabs for "DASHBOARDS", "WORKSPACE", and "CONFIGURATION", along with an "ADD NEW DASHBOARD..." button. The main content area is a grid of 18 widgets, each with an icon and a title:

- VEEAM BACKUP AND REPLICATION
- VMWARE ALARMS
- VMWARE HOSTS AND CLUSTERS
- VMWARE TRENDS
- VMWARE DATASTORES
- VMWARE VMS
- HYPER-V ALARMS
- VMWARE INFRASTRUCTURE
- VMWARE CAPACITY PLANNING
- HYPER-V TRENDS
- HYPER-V INFRASTRUCTURE
- HYPER-V VMS
- HYPER-V HOSTS AND CLUSTERS
- HYPER-V DATASTORES

Complete Visibility

Veeam ONE Reporter (Oversized VMs)



Oversized VMs

Report description

This report helps you to discover VMs with under-utilized CPU and memory resources. It analyzes VMs historical performance and configuration data to provide recommendation for VMs.

Report parameters

Scope: Virtual Infrastructure

Interval: 1 week

Business View object(s):

Top N: 5

Memory counter: Active

Summary Information

Total oversized VMs:	214
Total VMs:	265
CPU oversized VMs:	118
Memory oversized VMs:	209
CPU resources that can be reclaimed:	304 vCPUs
vRAM amount that can be reclaimed:	1,243.97 GB

Virtual Machine	CPU			Reclaimed resource	Recommendation
	vCPUs	Average Usage (%)	Peak Usage (%)		
5				CPU	
				36	
				36	
ise_ESX6_Production	10	15.00	20.00	8	Configure this VM with 2 vCPUs.
VEEAM	8	2.00	3.00	7	Configure this VM with 1 vCPUs.
ise_ESX2	8	8.00	8.00	7	Configure this VM with 1 vCPUs.
Hyper-V 2016 (euhv05)	8	5.00	12.00	7	Configure this VM with 1 vCPUs.
ise_HV01_W2012R2	8	4.00	6.00	7	Configure this VM with 1 vCPUs.

Virtual Machine	Memory			Reclaimed resource	Recommendation
	Capacity (GB)	Average Usage (GB)	Peak Usage (GB)		
5				Memory (GB)	
				186.10	
				186.10	
Hyper-V 2016 (euhv05)	48.00	1.45	2.52	44.80	Allocate 3.2 GBs of RAM.
Hyper-V 2016 (euhv03)	48.00	1.70	3.47	43.60	Allocate 4.4 GBs of RAM.
Hyper-V 2016 (euhv04)	48.00	3.53	4.77	42.00	Allocate 6 GBs of RAM.
ise_CS_0.0_ESXi_101_32Gb_500GB	32.00	0.11	0.21	31.70	Allocate 0.3 GBs of RAM.
euworkplacemo	32.00	3.45	6.34	24.00	Allocate 8 GBs of RAM.

Complete Visibility

Veeam ONE Reporter (Guest Disk Free Space)

Guest Disk Free Space

Description

This report provides information about free space for all VMs guest disks.

Report Parameters

Scope: \\Virtual Infrastructure
Business View object(s):
Interval: 1 - week (8/14/2017 - 8/21/2017)
Disk size more than: 5 GB
Free space, less than: 50.00 %
Sort by: Virtual machines
Do not show guest disks suppressed in Monitor Client: True

Summary

Overview

VMs analyzed	55
Virtual disks in the infrastructure	60
Including Thick disks	7
Thin disks	53
Disks to reach 100% in less than 30days	2
Disks to reach 100% in less than 60days	4
Disks with less than 1GB of free space	10
Disks with less than 1% of free space	7
Average disks` daily growth [GB]	0.06
Average disks` daily growth [%]	0.06 %

Virtual Server	Virtual Machine	Partition	Guest disk size (GB)	Guest disk used space (%)	Guest disk used space (GB)	Guest disk free space (%)	Guest disk free space (GB)	Disk's used space growth (GB)	Daily growth (GB)	Days to reach 100%
vcsa.eudemo.veeam.local	cc_ubuntu desktop_VAL	/	7.75	94.40	7.31	5.60	0.43	0.00	0.00	∞
	cc_win2016_VBR9.5	C:\	39.51	68.54	27.08	31.46	12.43	0.00	0.00	∞
	Demo VM on EMC	C:\	39.51	60.31	23.83	39.69	15.68	0.01	0.00	∞
	eurepository	E:\	749.87	63.74	478.00	36.26	271.87	0.00	0.00	∞
	euworkplace	C:\	59.22	67.32	39.86	32.68	19.35	-1.36	-0.19	∞
	euworkplacedemo	C:\	159.21	79.08	125.91	20.92	33.31	-0.03	0.00	∞
	Hyper-V 2016 (euhv03)	C:\	39.51	58.82	23.24	41.18	16.27	1.23	0.18	157
	Hyper-V 2016 (euhv04)	C:\ClusterStorage\Volume2\	599.81	55.94	335.51	44.06	264.30	0.00	0.00	∞
	Hyper-V 2016 (euhv05)	C:\ClusterStorage\Volume2\	599.81	55.94	335.51	44.06	264.30	0.00	0.00	∞
	Hyper-V Storage (euhvsan2)	C:\	39.51	50.23	19.85	49.77	19.66	0.11	0.02	∞
	ise_ad fc	C:\ClusterStorage\Volume2\	599.81	55.94	335.51	44.06	264.30	0.00	0.00	∞
	ise_linux1	E:\	699.81	58.21	407.36	41.79	292.46	-1.59	-0.23	∞
	ise_MSFT_iSCSI_101ns	C:\	39.51	51.41	20.31	48.59	19.20	0.00	0.00	∞
	ise_VBR_Console	C:\	39.51	0.64	0.03	0	30			

Complete Visibility

Veeam ONE Reporter (Capacity Planning)

Capacity Planning

Description

This report predicts when resource utilization for selected object(s) in the infrastructure will reach the configured limit.

Report Parameters

Scope:	\\Virtual Infrastructure
Analyze performance data for:	Past 6 Months
Make planning for:	Next 6 months
CPU utilization:	80.00 %
Memory utilization:	80.00 %
Datastore space utilization:	90.00 %
Datastore read/write rate:	50 MBps
Datastores:	All Datastores
Business hours:	From 12:00 AM To 11:00 PM

Summary

Virtual Infrastructure	Days Remaining	Resources
Number of standalone hosts: 0	CPU: 56	CPU:
Number of hosts: 7	Memory: 0	Memory:
Number of datastores: 11	Datastore space utilization: 50	Datastore:
Number of VMs: 273	Datastore read rate: ∞	
Number of powered on VMs: 231	Datastore write rate: 76	

Top 5 Utilized Clusters and Standalone Hosts	
Object Name	Bottleneck
Management	Memory usage
vSAN	Memory usage

Details

Selected Object - Management

Selected Object - vSAN

Physical Resources				
CPU (GHz)	CPU Sockets	CPU Cores	Memory (GB)	Datastore Capacity (GB)
126.00	10	60	1279.83	30685.90

Resource Usage					
Resources	Memory Usage	CPU Usage	Datastore Used Space	Read Rate	Write Rate
Current usage	85.70 %	54.81 %	0.00 %	5.13 MBps	29.61 MBps
Average usage	68.69 %	41.45 %	0.00 %	3.49 MBps	7.66 MBps
Days remaining	0	56	50	∞	76

Recommendations

To keep capacity under **80 %** for the next **6 months** for CPU: **Increase available CPU resources by 70 GHz**

To keep capacity under **80 %** for the next **6 months** for Memory: **Increase available memory resources by 2224 GB**

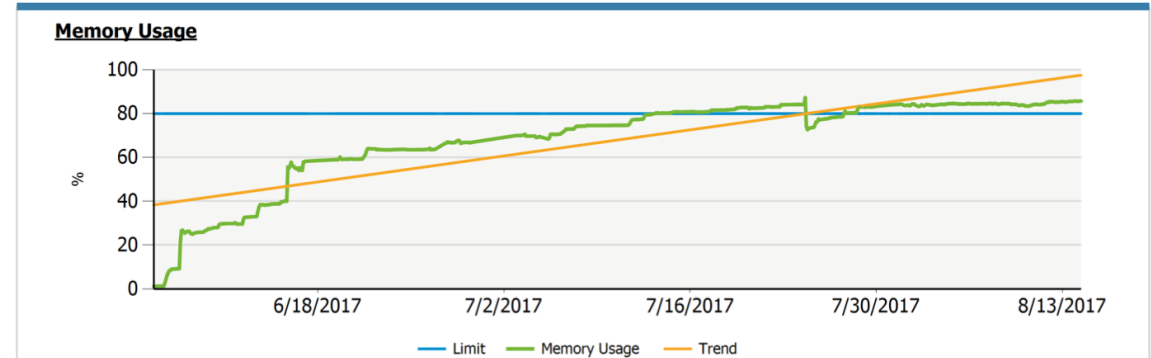
To keep datastore usage under **50 MBps** for the next **6 months** for Memory: **Relocate most IO-intensive VMs from the problematic datastore(s).**

Or add **8** host(s) like **euesxi02.eudemo.veeam.local**

To keep capacity under **90 %** for the next **6 months** for datastores:

Increase available free space for datastore **vsanDatastore** by **14993.7 GB**

Performance Trends

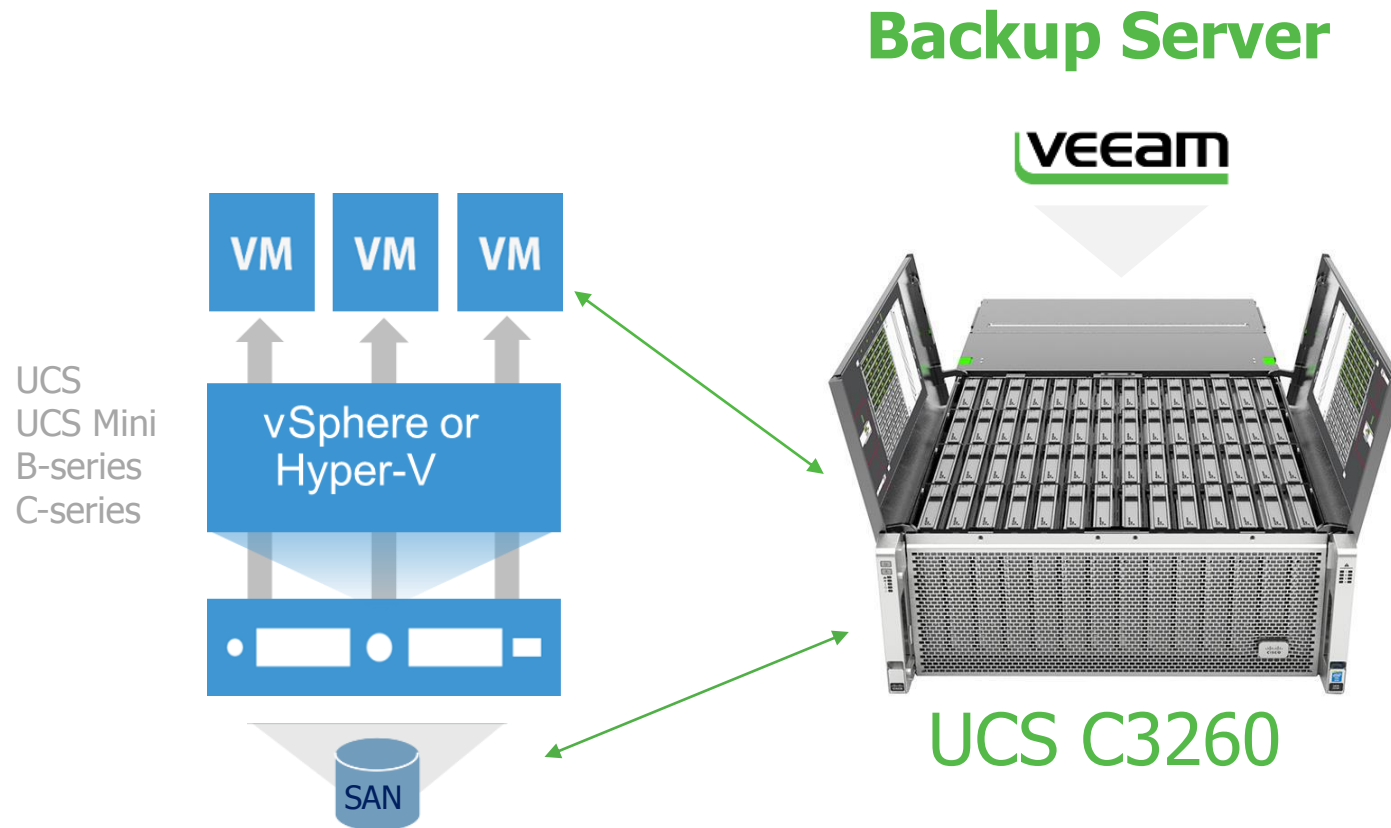




Always-On

Cisco UCS

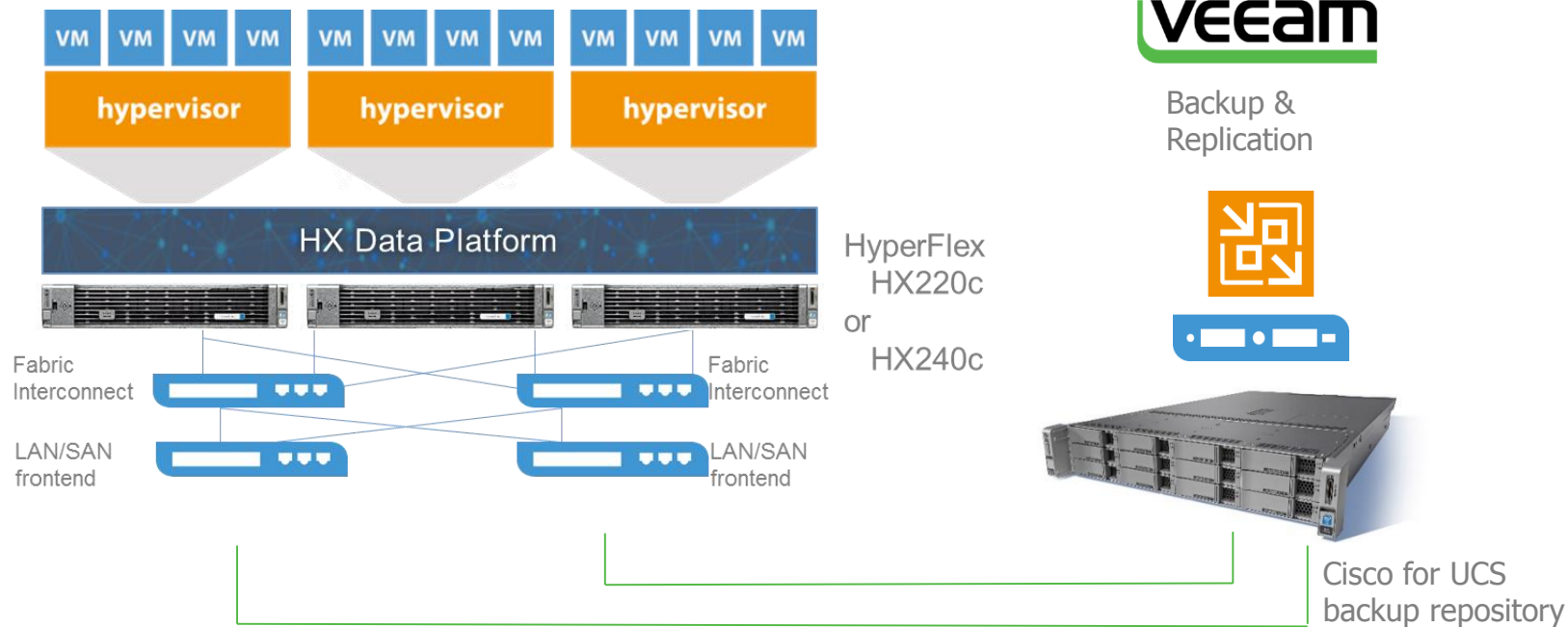
Veeam Availability for Cisco UCS



- UCS C3260 is an Ideal Backup Server
 - Offers storage density
 - Veeam handles compression & dedup
 - No hydration needed for recovery
- Unmatched speed & cost effectiveness

Cisco HyperFlex

Backup & Replication for HyperFlex environments



Veeam can ensure **HIGHER** data availability by

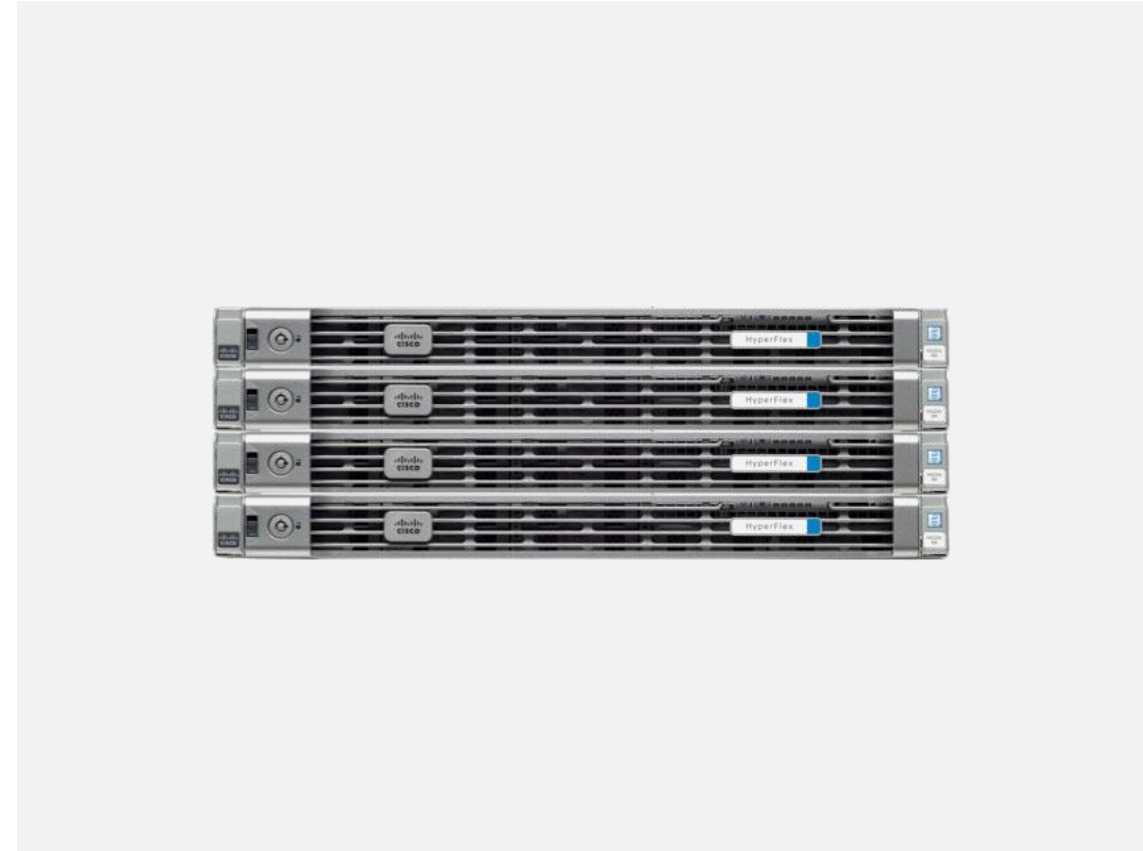
- Off-cluster backup copies of data
- **Granular** recovery – in the format that you need it
- Off-line backups to tape and to the cloud
- Veeam Explorers and Instant Recovery
- SureBackup and Virtual Lab
- Replication of VM's to another infrastructure, another site, or to the cloud

Lower the RTPO of < 15 mins for Cisco HyperFlex environments

- **Flexible and modular** Cisco hyper converged solution powered by Cisco UCS technology
- **Easy to deploy and manage**, leverage UCS **service profiles**
- **Space efficient clones and snapshots** - Data replication to multiple nodes

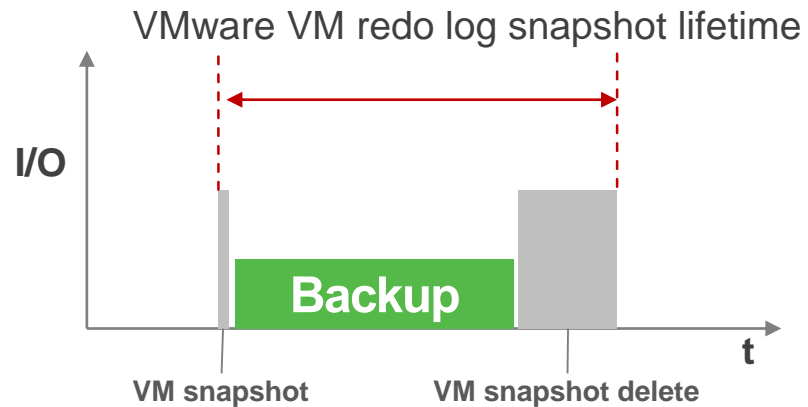
New Veeam & Cisco HyperFlex Integration

- **Native** Snapshot Integration with HyperFlex Platform
- **First** and **Only** Data Protection Vendor
- Benefits to the Integration:
 - **Minimizes impact on production**
 - **Improves Recovery Point Objectives**
 - **Accelerates Backups**
- **Available** with B&R 9.5, U2



VMware Snapshot challenges

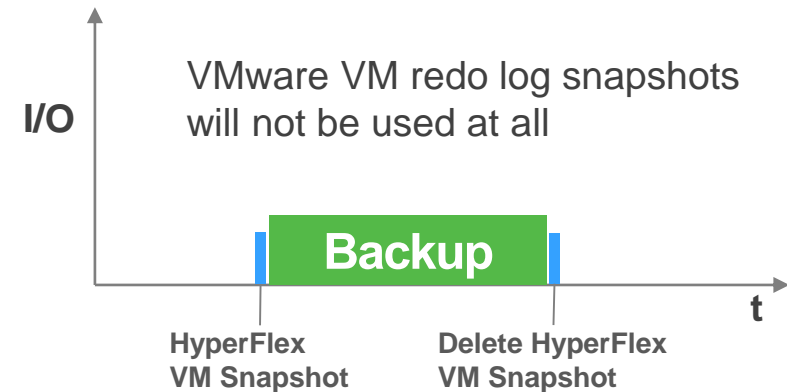
Standard VM Backup



To be able to use Incremental Forever Image Level Backups with Change-Block-Tracking over the VMware Storage API, a VM Snapshot is required. However, VM Snapshots come with drawbacks, as all changes during the backup were written to the Snapshot and they need to be committed to the main storage when the snapshot is deleted. This leads to:

- High Storage Load at Snapshot delete
- Potential VM stuns at Snapshot delete
- It will take a long time to delete the Snapshot

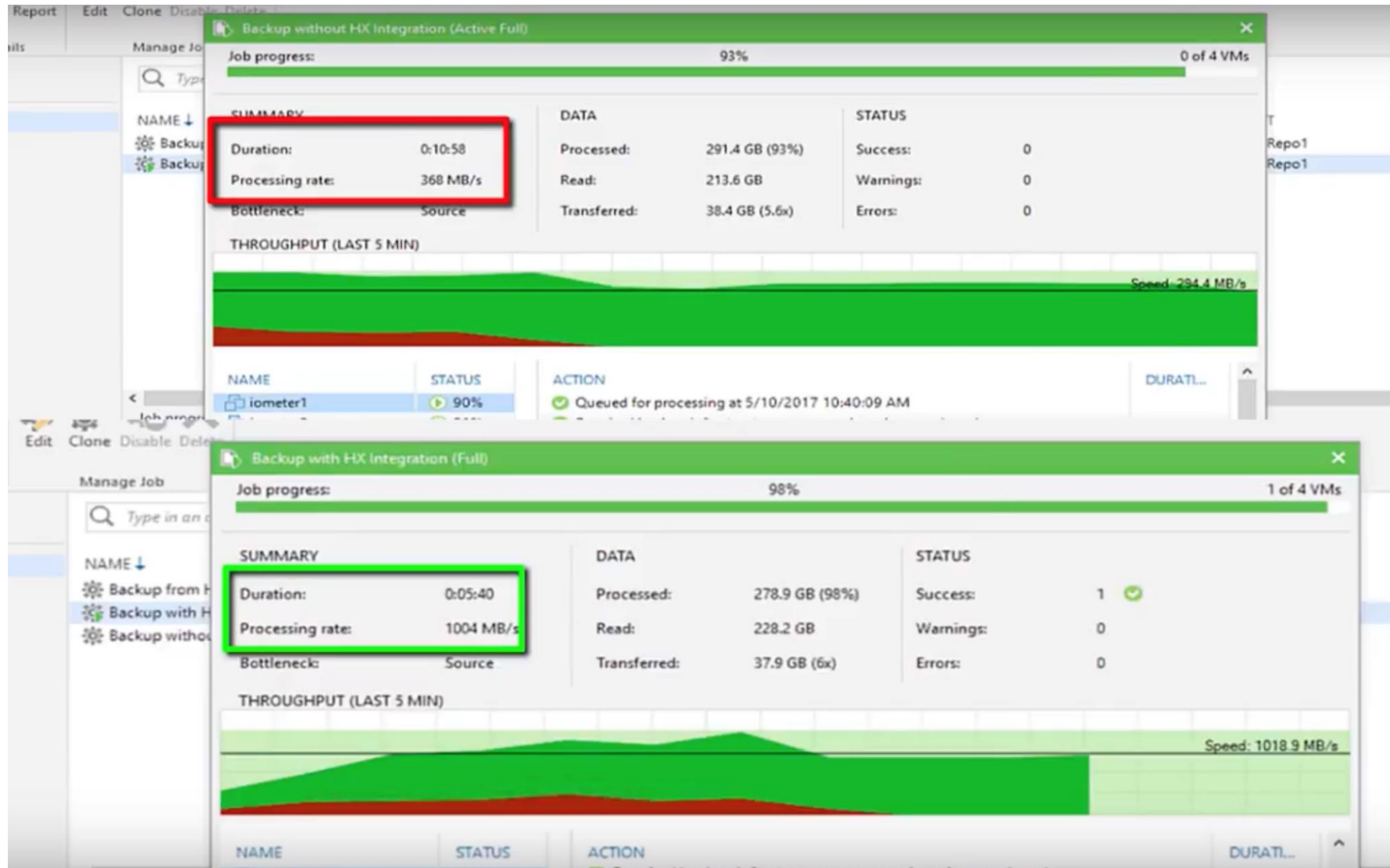
With HyperFlex Snapshot Integration



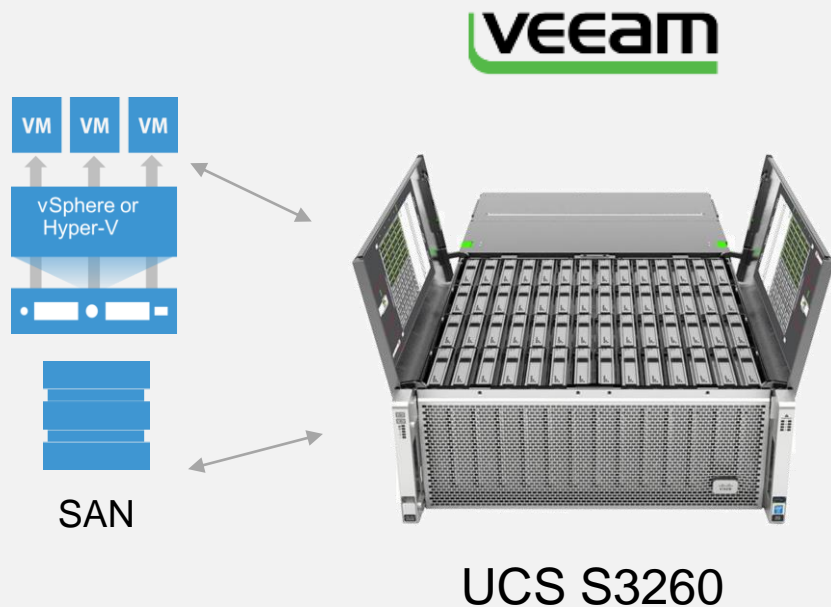
Cisco's HyperFlex single VM snapshot possibilities give Veeam the chance to use only HyperFlex Snapshots for all backups including Application Aware Backups with usage of VMware change block tracking. This is possible because Cisco integrated themselves into the VMware Snapshot process by VAAI (VAAI-NAS based offload of snapshots).

As the HyperFlex Snapshots can be deleted without any overhead there will be no negative effects to the VMs.

Fast Performance more than competitor 3X



Veeam & Cisco UCS S-Series



S3260 is the ideal backup server

- Massive storage capacity
- High performance & I/O
- Architectural flexibility

Veeam & Cisco deliver

- Simple and cost-effective scalability
- Fast, reliable storage for backups
- High speed, granular recovery
- Deduplication, compression for storage savings

Unmatched performance & cost effectiveness

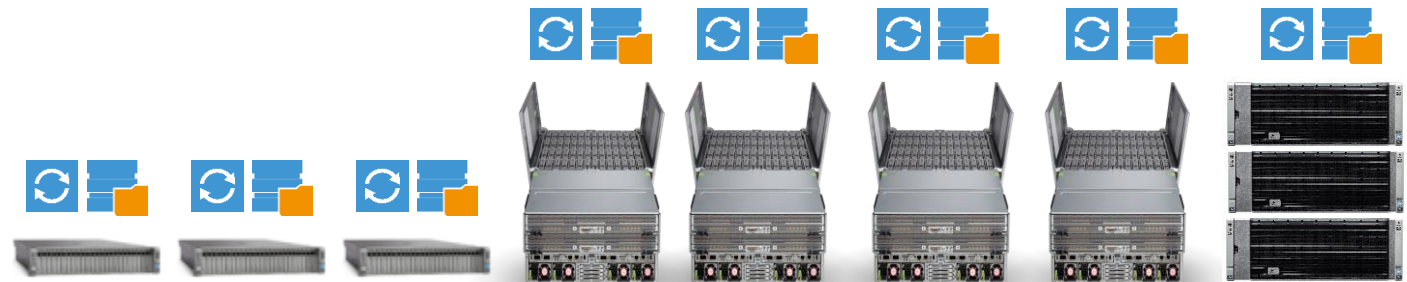
Veeam Availability Solution for Cisco UCS

Veeam Backup & Replication
Enterprise Plus
Cisco UCS 240 or 3260
Windows Server 2012
3yrs 24x7 support

Rapid Restores
 for Critical Applications
 Advanced VM Replication
 Verified Protection
 WAN Acceleration
 Complete Visibility
 Cloud Ready
 Turnkey Solution

**Commercial/Midsize
 Enterprise**

**Service
 Provider/Large
 Enterprise**



	8 TB	48 TB	72 TB	84 TB	140 TB	280 TB	560 TB	1680 TB
Size	2U	2U	2U	4U	4U	4U	4U	4U X3
Capacity*	8 TB	48 TB	72 TB	84TB	140 TB	280 TB	560 TB	1680 TB
Veeam Sockets	6	8	10	12	24	46	90	280
Est. VMs	NA	70	100	120	225	450	900	2,800

* Veeam compression & de-duplication can result in 50% or higher utilization

Veeam Availability Solution for Cisco UCS

Reliable Solutions for Virtualized Environments

Solution Includes:

- Veeam Backup and Replication Enterprise PLUS
- Cisco UCS 240 or 3260
- Windows Server 2012 R2 or 2016
- 3yrs 24x7 support on all components

8TB Solution

Replication Only

48TB – 84 TB Solutions

- Set & forget for the IT generalist
- Centrally managed by UCS tools
- VM's 120 or less

140TB – 560TB Solution

- Solution for Backup & Storage
- Building block for future expansion
- VM's 120 – 900

1680TB Solution

- Grow from 3 to as many 3260's as needed
- Ideal for private cloud, service provider back-ends

Commercial/Midsize Enterprise

Service Provider/Large Enterprise

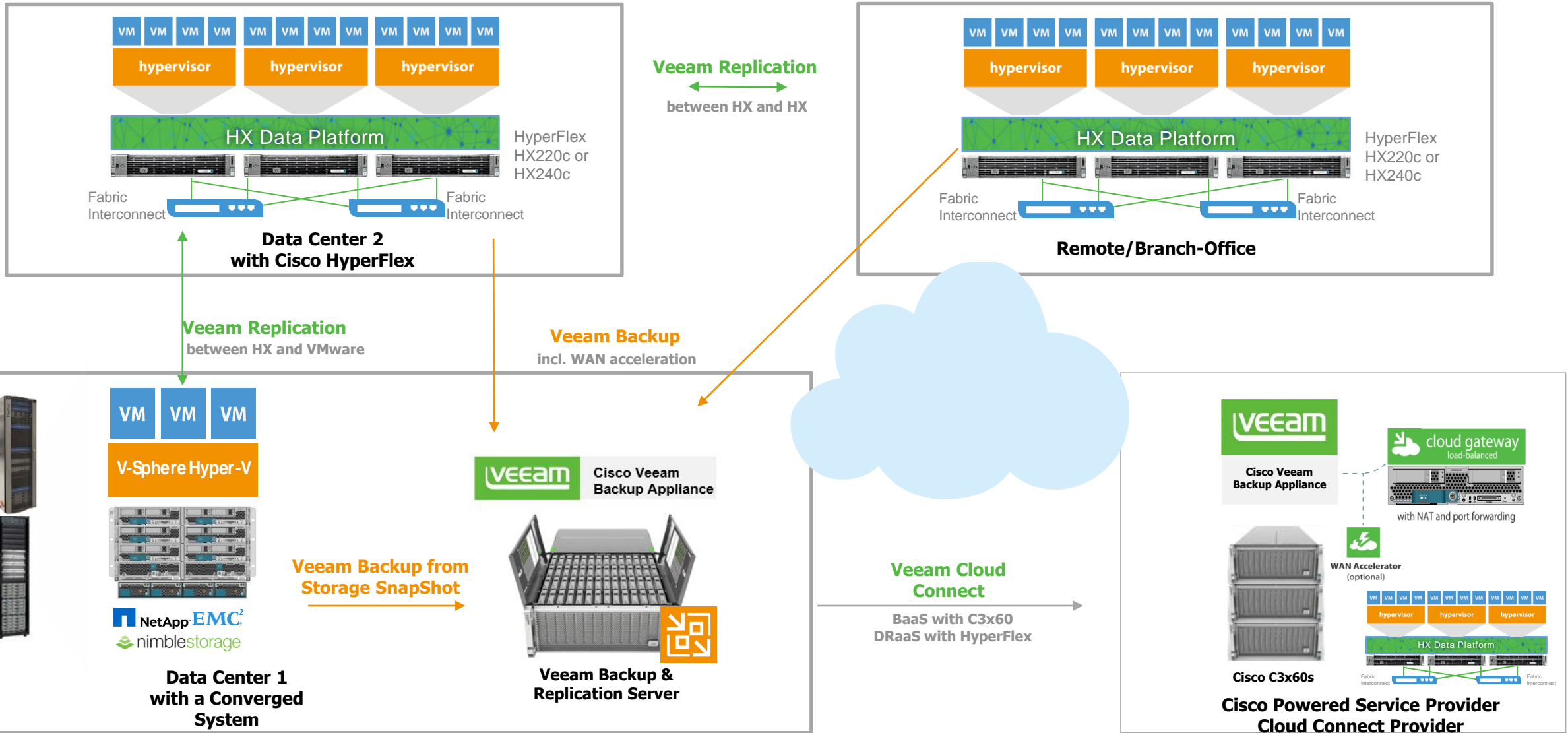


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Veeam Availability Solution for Cisco UCS

The Big Picture for Veeam/Cisco



A modern, high-performance solution for next generation data centers



Non-Stop Business Continuity

2.5 x less Failures
3 x more Speed
91% SLA



Digital Transformation Agility

Your cloud, your way



Analytics and Visibility

Monitor, analyze
and act with
confidence

Thank you

veeam | 
cisco