

Veeam Availability Solution for Cisco UCS

The data availability challenge

Organizations are modernizing their data centers so that they can provision IT services faster, strengthen security and control, and lower operating costs. While building modern data centers, organizations invest in server virtualization, modern storage applications, and cloud-based services. However, businesses are facing new demands from end users, including access to data and applications at all times with no downtime or data loss. In addition, they are facing exponential data growth annually. For many organizations, there is a gap: between the requirements of the Hyper-Available Enterprise™ and IT's ability to effectively deliver availability. Organizations bridge this gap with a new kind of solution — one that delivers a recovery time objective (RTO) and recovery point objective (RPO) of less than 15 minutes for all applications and data.



The Solution: Veeam Availability Solution for Cisco UCS

Veeam and Cisco have collaborated to offer an integrated and pre-configured data availability solution based on Cisco UCS and Veeam technology. The Veeam Availability Solution for Cisco UCS comes ready for deployment, and is verified jointly by Veeam and Cisco.

The Veeam Availability Solution for Cisco UCS offers:

- Data availability — instant VM recovery and file-level recovery.
- Verified protection — automatically verifies the recoverability of every backup and replica.
- Two-in-one backup and replication — provides near-continuous data protection for every virtualized application.
- Rapid restores for critical applications like Microsoft Exchange, SharePoint, SQL Server, and Oracle databases.
- Scalable and flexible — Ready to deploy and scales easily from 48TB and 70 VMs to over 2PB and thousands of VMs.

The Veeam Availability Solution for Cisco UCS is a solution that is simple to purchase, deploy, and manage. It is ideal for midsize, large, remote office/branch office (ROBO) customers and service providers.

The Veeam Availability Solution for Cisco UCS leverages Cisco UCS M240 or S3260 storage servers and Veeam Availability Suite to deliver high-speed recovery, data loss avoidance, and verified protection with complete visibility for applications requiring high availability and scalability.

"TMA's vision is to improve the health of all Texans, so we use the time and money saved by Veeam and the S3260 to concentrate on ways technology can support our public health priorities, including reduced tobacco use, environmental hazards, obesity and mental health and substance use disorders," Haley said.

Aaron Haley
Network Operations Director
Texas Medical Association

[Read the case study](#)

"Veeam consistently pushes the envelope in bringing sophisticated backup and disaster recovery functionality to enterprises and cloud providers."

Justin Giardina
CTO
iland



	8TB	C240 48 TB	C240 72TB	S3260 84 TB	S3260 140 TB	S3260 280 TB	S3260 560 TB	S3260 1680TB
Average Number of Veeam Sockets	6	8	10	12	28	56	112	340
Average Number of Virtual Machines	NA	70	100	120	270	560	1100	3400
OS Drives	2x 400GB SAS SSD	2x 400GB SAS SSD	2x 400GB SAS SSD	2x 480GB SSD	2x 480GB SSD	2x 480GB SSD	2x 480GB SSD	2x 480GB SSD per node
Raw Capacity	8 TB	48 TB	72 TB	84 TB	168 TB	336 TB	672 TB	2016 TB
Minimum Usable Capacity	4 TB	36 TB*	54 TB*	66TB*	132 TB*	264 TB*	528 TB*	1584 TB*
Storage	Replication only Appliance	12 x 4-TB SAS 7200-rpm drives 48 TB raw capacity 36 TB minimum usable capacity	12 x 6-TB SAS 7200-rpm drives 72 TB raw capacity 54 TB minimum usable capacity	14 x 6-TB SAS 7200-rpm drives 84 TB raw capacity 66 TB minimum usable capacity	14 x 12-TB SAS 7200-rpm drives 168 TB raw capacity 132 TB minimum usable capacity /24	28 x 12-TB SAS 7200-rpm drives 336 TB raw capacity 264 TB minimum usable capacity	56 x 12-TB SAS 7200-rpm drives 672 TB raw capacity 528 TB minimum usable capacity	168 x 12-TB SAS 7200-rpm drives 2016 TB raw capacity 1584 TB minimum usable capacity
Servers	1 Cisco UCS C240 M5 (LFF)	1 Cisco UCS C240 M5 (LFF)	1 Cisco UCS C240 M5 (LFF)	1 Cisco UCS S3260	1 Cisco UCS S3260	1 Cisco UCS S3260	1 Cisco UCS S3260	3x Cisco UCS S3260
CPU	2x Intel® Xeon® Silver processor E5-4114 (10 cores, 2.2 GHz, and 85W)	2x Intel® Xeon® Silver processor E5-4114 (10 cores, 2.2 GHz, and 85W)	2x Intel® Xeon® Silver processor E5-4114 (10 cores, 2.2 GHz, and 85W)	2x Intel® Xeon® Gold processor 6138 (20 cores, 2.0 GHz, and 125W)	2x Intel® Xeon® Gold processor 6138 (20 cores, 2.0 GHz, and 125W)	2x Intel® Xeon® Gold processor 6138 (20 cores, 2.0 GHz, and 125W)	2x Intel® Xeon® Gold processor 6138 (20 cores, 2.0 GHz, and 125W)	2x Intel® Xeon® Gold processor 6138 (20 cores, 2.0 GHz, and 125W) per node
Memory	96GB	96GB	96GB	128 GB	128 GB	128 GB	128 GB	128 GB per server Total: 384 GB
RAID Cache	1GB	1 GB	1 GB	4GB	4 GB	4 GB	4 GB	4 GB per node
RAID	RAID 1	RAID 6	RAID 6	RAID 6	RAID 60	RAID 60	RAID 60	RAID 60
Maximum Bandwidth	2x 40 Gbps	2x 40 Gbps	2x 40 Gbps	2x 40Gbps	2x 40 Gbps	2x 40 Gbps	2x 40 Gbps	2x 40 Gbps per node

* Storage efficiencies via Veeam Compression and Deduplication technologies can result in 50% or higher reduction in space utilization. Backup repositories on ReFS 3.0 volumes will also benefit from integration with the Block Clone API, reducing synthetic full creation time and dramatically reducing space consumption for the synthetic full. Overall space savings will vary depending on the environment.

Summary

The Veeam Availability Solution for Cisco UCS is a best-of-breed solution that is the perfect answer for customers requiring an advanced, enterprise-class data availability solution for their virtual environments that is simple to order, deploy and manage and can easily expand over time as the need increases.

It provides fast, flexible and reliable recovery of applications and data bringing backup and replication together in a single solution with award-winning support.



Learn more:

[Veeam Product Overview](#)
[Cisco and Veeam Availability solutions](#)



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