



6 reasons why Scality is the best object storage for Veeam v12 backups

The #1 Gartner-ranked object store for backup¹ joins forces with [Veeam](#) for bulletproof ransomware protection, data immutability and operational efficiency — without sacrificing flexibility or performance.

Learn how Scality — the best object storage solution for Veeam v12 and the only software-defined object storage partner selected for the v12 release — can help you master the 3-2-1-1 backup rule.



[READ ONLINE](#)

¹ 2022 Gartner Critical Capabilities for Distributed File Systems and Object Storage, Gartner

Reason #1

Never-fail restores with 100% system uptime

The reality is 58% of backups fail.² To maintain business continuity and operations, backup restores must be fast, predictable and reliable.

When your organization's data is on the line, your backup solution must be incredibly resilient and fault-tolerant. Uptime is everything.

Tape, appliances, and the cloud all have serious disadvantages for Veeam backups.

Tape troubles

While tape has a role to play in offsite and air-gapped backup copies and long-term archives, it is not without its troubles for modern backup needs. Tape can be a headache to manage as keeping tapes reliable for the long term means periodically rewriting data. Tape drives can become obsolete or unsupported over time, making tapes created on older drives difficult or impossible to read. These drawbacks conspire to negate tape's cost advantages.

Appliance ailments

Backup appliances typically have a single point of failure if not purchased in pairs, resulting in double the cost. They also have a severe performance penalty for restoring data versus backing up data.

The cloud conundrum

Cloud backups are fine for a backup copy, but restoring from cloud storage is slow. Don't count on it for immediate restore needs, especially from cold storage services such as Amazon S3 Glacier and Azure Archive Storage — their performance SLAs are measured in hours.



Scality never fails, thanks to:



No-SPOF, distributed software solutions that tolerate all kinds of failures and deliver up to 14 nines of data durability



Ability to geo-stretch for site-level fault tolerance and mirror to a secondary system for super-high levels of availability (second system remains available if the first fails)



Premium Scale Care Services offering provides remote monitoring and proactive issue detection + resolution with a 100% uptime guarantee/SLA

² 2021 Data Protection Trends Report, Veeam

Reason #2

4 to 8x faster restores than traditional backup solutions

Every stat on downtime tells one simple story: Avoid it at all costs — or it'll cost you.

When you're evaluating backup storage solutions, performance is a critical measure of effectiveness and value.

How much does downtime cost enterprises per hour?³

\$300k for 91% of enterprises

\$1-5M for 44% of enterprises

16x higher costs for companies with frequent downtime

Before business was 24x7, enterprise IT performed backups during a nightly "backup window" when business was quiet. Today's data needs have shrunk that window to near zero, making speed mission-critical.

The faster the backups, the more data can be backed up in limited time — and when restores are required, the faster the throughput, the faster operations are back up and running.



With Scality, your most critical services can be restored in less than 5 minutes

How do you figure?

Let's say, for example, Veeam needs to restore 100 VMs of 30GB each, 50% dedupe/compression ratio...

Assuming 6GB/sec restore throughput (Scality can exceed this), Veeam can restore the 100 VMs in < 5 minutes

Assuming 3GB/sec restore throughput, Veeam can restore the 100 VMs in < 10 minutes

³ 2021 Hourly Cost of Downtime survey, ITIC



Scality for Veeam backups



Backup/restore throughput of 80 TB/hour over S3

Assuming standard six-node architecture, 50% dedupe/compression ratio from backup application



The same throughput for backup and restores

Not the case for backup appliances!



Easily scaled out throughput

Simply add more servers as the number and size of backup jobs increases



1 platform for many workloads

Run multiple backup jobs simultaneously into one Scality deployment — we thrive on high aggregate throughput workloads

The result?

4 to 8x faster restore than traditional solutions

Scality can do 80 TB/hour, for both backups and restores — that's 4x faster than a leading backup vendor's largest appliance and 8x faster than their small and medium-sized appliances. And, unlike appliance solutions, Scality doesn't suffer a restore performance penalty.

Here's how the math works...

Backup appliance vendors quote peak throughput numbers up to 20-30 TB/hour for their largest and most expensive configurations. They claim even higher levels of performance through data reduction (compression and deduplication) at the source of the backups, which ultimately sends less data to the storage solution. Reassembling deduplicated data in backup appliances causes major overhead and negative impact on restore performance — as little as 10% but up to 75% lower restore vs. backup performance.

Given this, the largest appliance solutions commonly restore data at speeds under 20 TB/hour (and less than half of that for smaller solutions). This reality gives Scality a clear 4 to 8x performance advantage for critical restore operations.

Reason #3

Multi-level, immutable ransomware protection for zero data loss

Immutability is widely recognized as a must-have in the fight against ransomware because it effectively safeguards data from any deletion or modification (whether it be malicious or accidental).

A note of caution: Not all object storage vendors support true immutability. As you're vetting solutions, ensure that S3 Object Lock is supported.

By partnering with Veeam, Scality solutions provide for truly air-gapped, tamper-proof backup data that stays immune to ransomware — offering a robust and quick recovery path in the event you are attacked.

For more ransomware protection and recovery best practices, download Gartner's *How to Protect Backup Systems From Ransomware Attacks* report.



[DOWNLOAD REPORT](#)



Scality protects data against ransomware at four levels, from top to bottom



Amazon S3 API level

Immutable object locking and data retention policies, compliance mode and versioning



Data encryption

With keys stored off the system in a KMS (data cannot be read without those keys)



Distributed erasure coding

Files are split into thousands of pieces and spread across all drives in the system, making it nearly impossible for bad actors to make sense of



Core immutable object storage architecture

Data is never overwritten — if a delete occurs, it's logically removed from view and purged later

With the addition of a software appliance, Scality also includes a locked-down, secure operating system that further prevents malicious access from a root user with wide-open privileges.

Reason #4

Master the 3-2-1-1 rule with a single-vendor object storage backup solution

The 3-2-1 backup rule has long been embraced. Now it's been replaced with an upgrade to ensure the recoverability of modern, mission-critical data.

3

Three different copies of data (primary)

2

Store copies on two different media (backup)

1

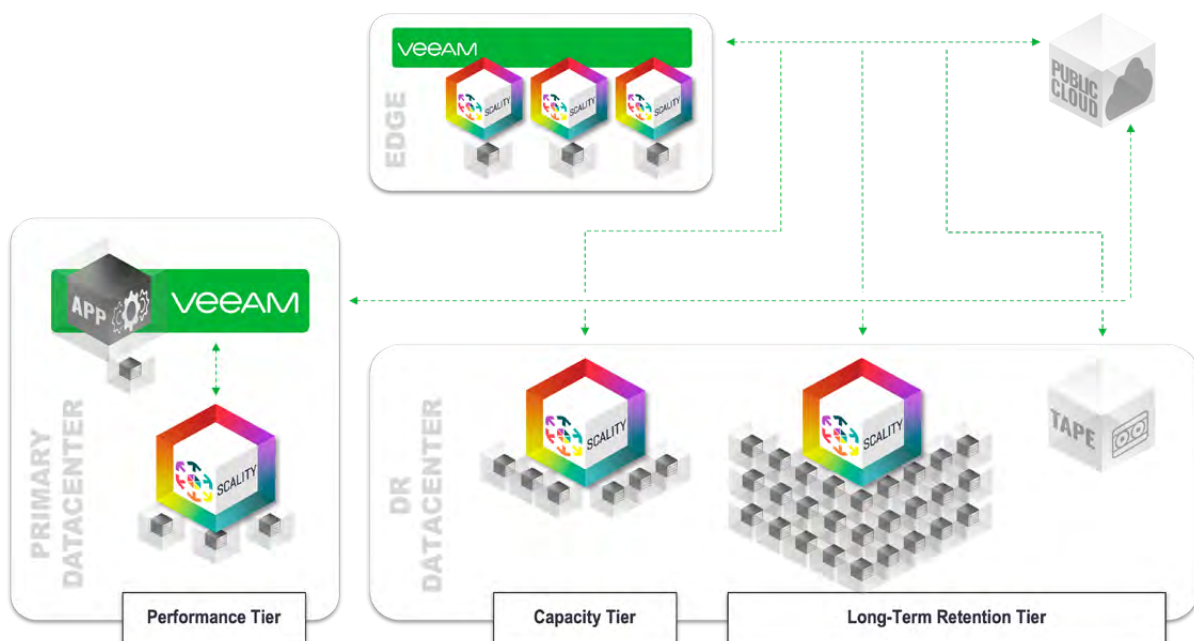
Keep one backup copy offsite

1

Keep one backup copy offline or on immutable data storage

This helps you confidently address any failure scenario or ransomware attack — and, thanks to Scality, it just got far easier to master.

Scality simplifies the backup tiers of 3-2-1-1 with a single-vendor solution for performance, capacity and offsite copies. By leveraging Scality's scale-out capabilities for each tier, silos are a thing of the past.



Note: As of Veeam Data Platform v12, Scality's products support 3 tiers: performance, capacity and long-term retention, which gives customers the ultimate flexibility to deploy the architecture best suited for their needs.



Scality object storage is the only solution validated with Veeam v12 for each backup tier in 3-2-1-1

Want more ransomware protection and recovery tips?

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[DOWNLOAD REPORT](#)



Immutable performance tier

with direct-to-object backups



Immutable capacity tier

with scale-out object



Immutable offsite long-term retention tier

for monthly/yearly backups

Reason #5

50% faster and more efficient Microsoft 365 backups

Veeam officially recommends S3 object storage for Microsoft 365 backups. Why?

Because far less storage capacity is required on S3 object storage than on simple block-based storage — this is due to Veeam data block sizes and more effective use of compression on the backups sent to object storage, which also has a commensurate impact on performance.



Benefits of Scality S3 object storage for Microsoft 365 backups



Increased efficiency

50% less storage capacity required on Scality vs. block-based storage



Increased performance

Scality enables a 50% increase in continuous, stable performance due to lesser capacity requirements



Unlimited scale

Scality S3 object storage easily grows and scales with increasing data volumes



Freed-up workload

With Veeam offloading metadata processing to the object store, workload is freed up on the CPU of the backup server (“VBO Backup Proxy”)



WATCH VIDEO



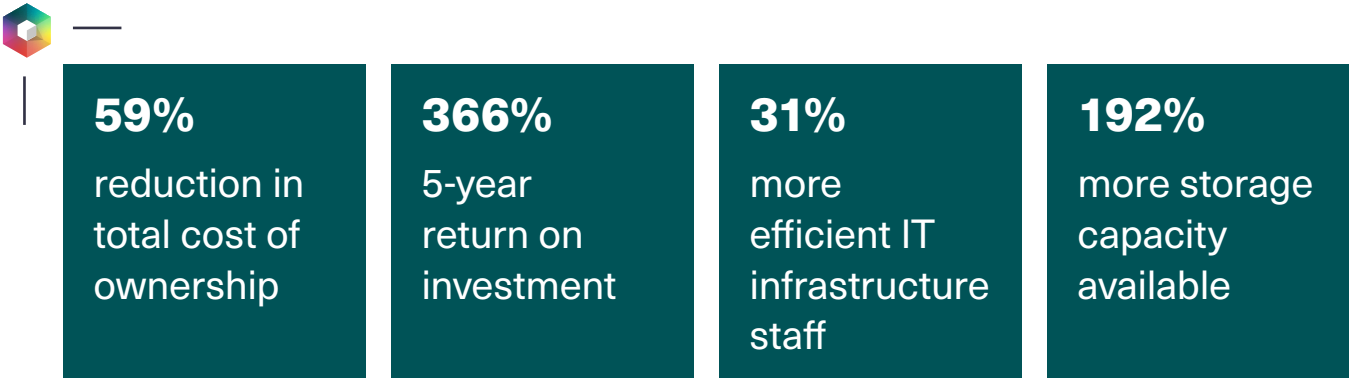
Reason #6

IDC reports that Scality customers enjoy 59% TCO savings and much more...

Unlike other solutions that are simply not cost-effective at scale, especially for long-term storage, Scality delivers substantial savings.

IDC interviewed real-world customers about the impact of Scality on their storage costs, IT operations, and business activities.

The results revealed transformational benefits.



The real-world business value of Scality



Download the IDC Business Value paper to see the full results of their Scality customer research.



[DOWNLOAD PAPER](#)



Your data is invaluable

Backup to the best.

Protect your backup data with confidence using Scality's time-tested immutable architecture to eliminate silos and simplify management.

- ✓ **Zero downtime**
- ✓ **No data loss**
- ✓ **Lightning-fast performance**
- ✓ **Unbreakable ransomware protection**
- ✓ **Flexible hardware + software integration**
- ✓ **Cost-effective disaster recovery solutions**
- ✓ **Unbeatable peace of mind**



“Hands down, Scality is the best backup target to keep data safe and immutable. It’s the ultimate ‘insurance plan’...”

Craig Somerville, CEO, Somerville IT Services

See Scality + Veeam Data Platform v12 in action

Join our live demo and get all your questions answered.



REGISTER NOW

Read more about the Scality + Veeam partnership [here](#).