

# Secure, Efficient, and Flexible Capacity Tier for Veeam Backups

## Protect Your Backups On-Premises with DataCore Swarm Object Storage Platform



### Benefits

- **Store more backups** with a market-leading 95% capacity utilization for user data
- **Increase confidence in backup integrity and restores** with automated self-healing and data protection
- **Modernize hardware non-disruptively** when the time is right, with your choice of equipment
- **Reduce your storage costs** by using a cost-effective capacity tier for your backups on-premises

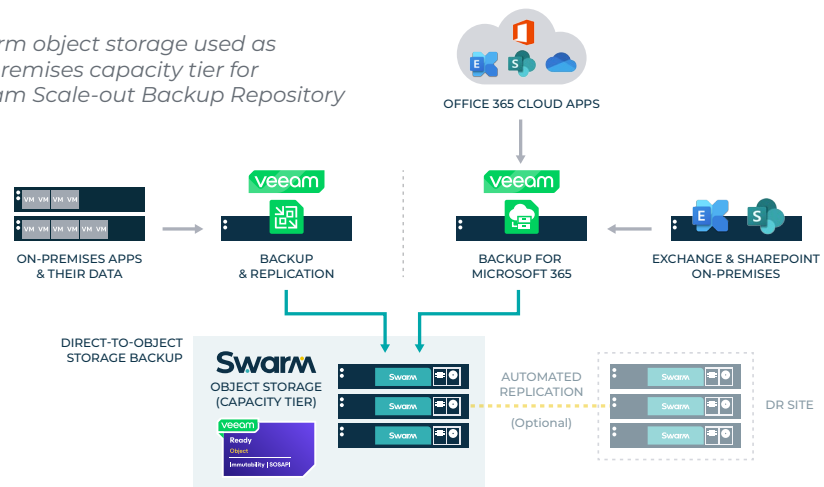
Veeam Backup & Replication and Veeam Backup for Microsoft 365 offer market-leading functionality for modern data protection. One of the challenges in utilizing the full feature set of Veeam solutions is providing scalable, cost-effective storage for the capacity tier. Cloud-based solutions are scalable, however costs compound over time and are very difficult to predict because of the way data is written. Another challenge is ensuring consistent data transfer speeds and security to ensure backups happen in a timely fashion and data retention abides by certain regulations such as GDPR. The solution is DataCore Swarm. Swarm provides a secure, durable, and cost-effective software-defined object storage solution for the capacity tier in your Veeam Scale-out Backup Repository.

## Secure, Scalable, S3-enabled Multi-Tenant Storage for Veeam Backups

### Why Swarm is The Best Option for Your Veeam Capacity Tier

With Swarm software-defined object storage, you can store more backups, spend less time managing storage, and continue to reduce storage TCO, all while ensuring your backups are continually safeguarded and instantly available a month, a year, or a decade from now. The on-premises alternative removes concerns over unexpected cloud charges and potential GDPR violations by keeping the data internally. Swarm’s logical and extensible multi-tenancy enables you to easily provide a backup target with custom capacity, access, and data protection policies for any number of backups, employees or subscribers.

Swarm object storage used as on-premises capacity tier for Veeam Scale-out Backup Repository



Being Veeam Ready qualified as an object storage repository and as an object storage repository with immutability, Swarm works seamlessly with Veeam backup technologies serving as a scalable and resilient capacity tier for your backup infrastructure.



### Protect backups against ransomware, cyber-attacks, hardware failures, and unintentional deletions

Unlike other object storage solutions that only repair a few errant conditions on reads, Swarm automatically self-heals from numerous potential issues. The Swarm health processor continually checks for failed hardware, bit rot, replica or erasure coding anomalies, and network problems. Swarm also includes several security and replication features that protect against ransomware attacks and procedural errors and can help you comply with a 3-2-1 backup strategy.

- *Immutability (WORM) via S3 object locking prevents deliberate or accidental data modifications*
- *No file system, login shell or executables for malware to exploit*
- *Zero administration for storage nodes reducing the threat of social engineering attacks*
- *Automated replication to a secondary site can utilize a logical or physical air gap for complete offsite isolation*
- *Activity logging and hashing reveal potential bad actors and ensure data hasn't been tampered with*
- *Encryption in-flight and at-rest prevents unauthorized reading of contents*



### Improve efficiency as backup capacity increases

Swarm leverages a patented parallel architecture to automate management and increase resiliency and responsiveness as the cluster grows. This means that read, write, and repair processes get faster as your backup capacity increases from hundreds of TB to PBs.

- *Swarm software runs from RAM and only utilizes 5% hard drive capacity for system data resulting in an industry-leading 95% capacity for your backups*

- *A single systems administrator with general IT knowledge can manage thousands of backup tenants and hundreds of PBs*
- *Capacity and performance can be scaled in under 90 seconds after initial deployment*
- *All system and descriptive metadata are stored with the object, eliminating the need for specialized database expertise*



### Ensure backups are available forever, even if hardware is short-lived

At DataCore, we understand that backups and data will outlive hardware which is why we designed Swarm for non-disruptive hardware upgrades while preserving data integrity. You can continue to benefit from advancements in server and compute efficiency and storage media density while ensuring your backups and data remain instantly available.

- *Use any combination of hardware including different server vendors, chassis size, and HDD/SSD type or size*
- *Eliminate the need for large capital expenditures by granularly expanding capacity a server or a drive at a time*
- *Optimize existing data center footprint by adding higher density, more efficient drives to servers with zero downtime*
- *Select any method of replication or erasure coding per backup tenant optimizing for performance or capacity*



### Veeam backup and Swarm active archiving in the same solution

With backups well-cared for, the same Swarm cluster can also attend to your long-term data retention requirements. Active archives can be cordoned off from backups in isolated domains thanks to Swarm's multi-tenant characteristics. Bucket properties can be individually tailored to optimize some domains for backups and others for active archives.

Essentially, with DataCore Swarm and Veeam, you gain two solutions in a single package for backup and data protection. Improve operational efficiency while optimizing backup TCO.



## Discover the Ultimate Flexibility of DataCore Software

DataCore Software delivers the industry's most flexible, intelligent, and powerful software-defined storage solutions for the core, edge, and cloud. With a comprehensive product suite, intellectual property portfolio, and unrivaled experience in storage virtualization and advanced data services, DataCore has helped over 10,000 customers worldwide modernize how they store, protect, and access data. [www.datacore.com](http://www.datacore.com)