In&Work AG - The Data Experts

EXAGRID STORAGE AND VEEAM
- The perfect combination
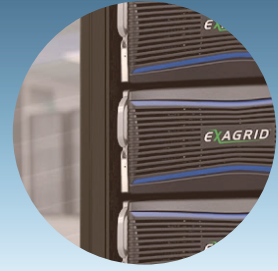
Protection and quick recovery of data and applications are considered essential to every business strategy. The combination of ExaGrid and Veeam meets the needs of demanding enterprise environments with a tight integration of backup software and backup storage. ExaGrid and Veeam provide scalable and cost-effective backup that goes beyond standard disk-based data protection to enable businesses to achieve the performance and efficiency needed to realize their backup, recovery and disaster recovery goals.

ExaGrid is a backup appliance with two zones: A disk-cache Landing Zone with data written straight to disk in its native format and a second zone with deduplicated data for low-cost long-term retention.

Due to its Landing Zone, Exagrid allows you to fully leverage Veeam`s Availability Suite including Sure Backup, Data Lab, Instant VM Recovery. The support of Veeam`s Scale-out Backup Repository (SOBR) enables you to leverage the advantages of a scale-out model for backup management and backup storage. ExaGrid has integrated Veeam`s Accelerated Data Mover which improves all backup and restore processes and allows synthetic fulls to be created directly on the appliance.

Each appliance has its own CPU, RAM and network connections. This scale-out architecture allows to maintain a constant performance as the amount of data grows (fixed-length backup window).

VEEAM FEATURES

> Boot a VM from the backup storage system when the primary VM environment is offline.
> Boot VMs on the backup system to test patch, configuration and other updates before rolling out to the production environment.
> Take advantage of Virtual Lab for testing.
> Create synthetic fulls on a regular basis to ensure reliable full backup restores; integration of the Veeam Accelerated Data Mover with ExaGrid`s landing zone provides synthetic fulls that are 6X faster.
> ExaGrid support Veeam`s Scale-out Backup Repository for efficient management of backup resources.

Backups
3x faster
than Dedupe-Appliances

Restores
20x
faster than Dedupe-Appliances

Immutable Objects
Delayed Deletes
Retention Time-Lock
against Ransomware

System scales to a
2.69PB
full backup

Up to
488TB/hr
ingest rate at 2.69PB full backup

HOW IT WORKS
Scale-out Architecture

An ExaGrid appliance consists of two zones: the landing zone and the retention zone. Veeam`s backup software writes to the disk-cache landing zone, where the most recent full backup always remains available in the native Veeam format. This allows for fast restores or instant recovery tests for instance. With the internal ExaGrid mechanism, the data is deduplicated to the retention zone. The data in the retention zone is immutable and can be protected against deletion. The retention zone is non-network-facing (air gapped).

Adaptive deduplication monitors ingest rates and resource consumption and identifies when to perform deduplication processing and data replication during the backup cycle. Should a new backup or in-progress backup require additional compute or memory, deduplication and replication processing adjust to dynamically meet the highest priority needs of the environment.

Appliances not only include disk, but also memory, bandwidth and processing power — all the elements needed to scale-out with constant performance as data grows (fixed-length backup windows). ExaGrid systems scale to up to 32 appliances and can consist of appliances of every size and generation (mix and match).
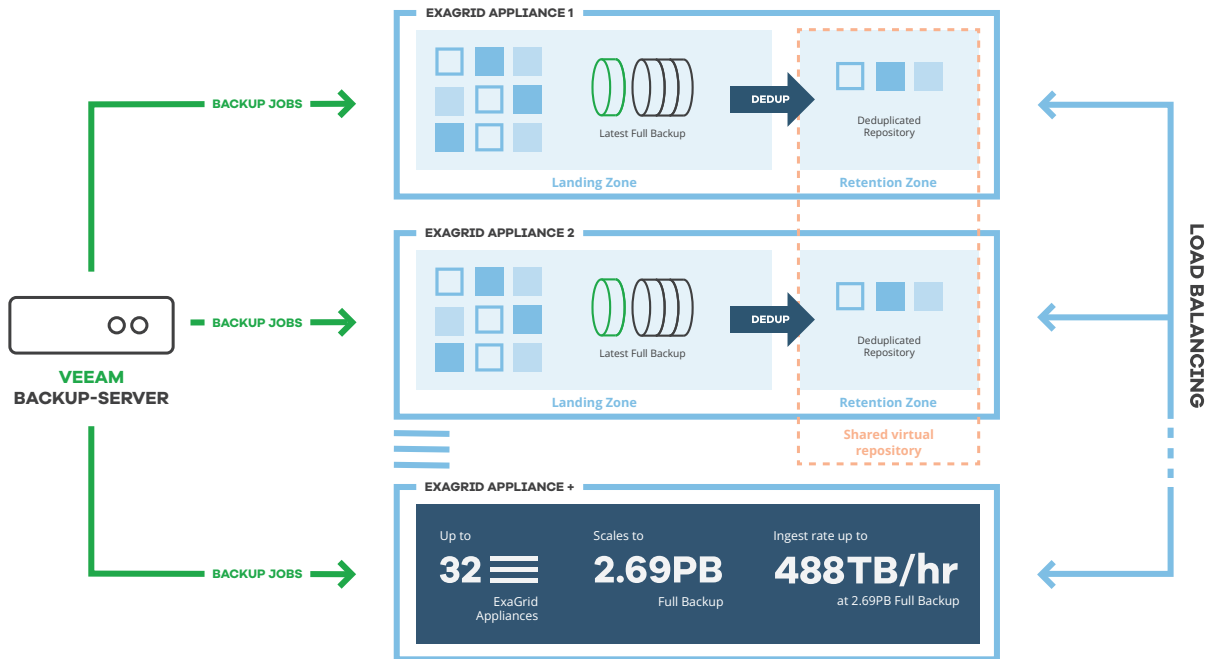
Deduplication
ExaGrid's unique deduplication mechanism is industry-leading and achieves deduplication ratios of up to 20:1. ExaGrid allows Veeam`s own deduplication to be maintained and deduplicates once again.

Faster restores
ExaGrid stores the most recent backup copy in its native Veeam format in the landing zone. As restores are usually done from the most recent backup, compute-intensive "rehydration" of deduplicated data can be avoided.

Faster backups
Since there is no inline deduplication, the backup process is not delayed / slowed down. This allows backups that are 3X faster than dedup backups.

DATA SECURITY AND RANSOMWARE PROTECTION

Ransomware can inflict significant damage upon businesses, quickly paralyzing the entire organization. ExaGrid`s Retention Time-Lock combined with Veeam`s security features offer you a strong data protection and recovery solution.

Immutable Backup

The retention zone is "non-network-facing" and thus air-gapped. The data deduplicated into the retention zone are stored as immutable objects (analogous to WORM). This means that an attacker has no chance of encrypting existing data in the retention zone. Data that is encrypted in the landing zone and then deduplicated into the retention zone has no effect on the integrity of the previous backups in the retention zone.

Retention Time-Lock

This mechanism prevents attackers from deleting the backup data in the retention zone. Since the deduplicated data (objects) stored in the retention zone are immutable and thus cannot be encrypted, deletion of the data is the only remaining attack vector.

Retention Time-Lock allows you to delay the execution of any delete commands up to 30 days. This preserves all your restore points and allows you to recover your data.

VEEAM FEATURES

Detect ransomware: Monitor your environment closely and be aware of any suspicious or abnormal activity with Veeam ONE™ possible ransomware activity alarm.

Ensure ransomware-free backups: Having a backup to restore from, especially after a ransom-ware attack, is essential and Veeam SureBackup® can scan your Veeam backups for malware and verify recoverability.

Restore workloads virus-free: Scan your backups for viruses when restoring to safeguard against previously unknown viruses and increase confidence that dormant threats won't be reintroduced back into the environment with Secure Restore.

VEEAM SCALE-OUT BACKUP REPOSITORY

ExaGrid supports Veeam's SOBR (Scale-Out Backup Repository). In a scale-out repository, individual repositories are merged into a single system / storage pool. SOBR is a software-defined abstraction layer that allows you to manage and use your backup storage capacities more efficiently. This includes automated job management and load balancing of performance and storage.

> Entire environments can be backed up with a single backup job, even with thousands of VMs
> No more complex calculations regarding the size of backup jobs and capacities
> Enables complete separation of functions between providers and users, just like a cloud solution

The combination of Veeam SOBR and Exagrid allows you to consistently pursue a scale-out approach, from a storage perspective as well as from a backup management perspective.

TCO – CONTROLLABLE COSTS

> Scale-out architecture, pay as you grow
> Price protection
>> The price paid for appliances stays at the price for 5 years
>> Yearly maintenance and support will not increase more than 3%
> Everything is included in the yearly support and maintenance - no hidden cost
>> Local support, assigned 2nd level tech support engineer
>> Full and point versions – all new features included
> No planned product obsolescence, mix and match of appliances regardless of generation / model.

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STORAGE AWARDS
THE STORRIES
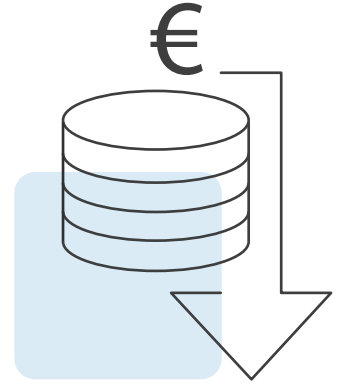
Immutable Storage Company of the Year 2021
Enterprise Backup Hardware Vendor of the Year 2021

NETWORKcomputing
A W A R D S

Company of the Year 2021
Bench Tested Product of the Year 2021
Return on Investment award 2021
Storage Product of the Year 2021

SDC AWARDS

Storage Company of the Year 2021
Storage Hardware Innovation of the Year 2021
Vendor Channel Program of the Year 2021

EXAGRID

ExaGrid Systems, Inc. is a company that was founded in 2002 and is headquartered in Westborough, Massachusetts with offices in Europe and Asia. Over 3000 customers, more than 10,000 installed systems and double-digit growth rates demonstrate that ExaGrid`s unique approach is a technically and economically attractive solution for the key challenges in the enterprise backup / LTR area.

IN&WORK AG
Your Partner for ExaGrid/Veeam solutions in the DACH-Area

In&work AG is an IT-Company based in Zurich and solution-provider of ExaGrid and Managed Service Provider (MSP) of Veeam. We have been providing consultancy and engineering services to clients such as MNCs, SMEs and government agencies for more than 20 years. Our main expertise lies in infrastructure/data management and B2B-digitalization.

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