veeam

Don't worry about long-term backup storage & protection

Business challenges

Every organization uses backups since they are the most important infrastructure component for protecting against data loss and ransomware. But the long-term storage, availability and security of backup data presents critical challenges:

- How can you manage rapid **data growth** without losing sight of **cost efficiency**?

- What measures help protect against **ransomware attacks**?

- How do you reduce **complexity** and **time to manage** while achieving the required **performance**?

Veeam & iTernity: Better Together

Veeam's® integration with iTernity iCAS FS eliminates your worries. This combination offers a verified scale-out backup storage that supports all Veeam backup modes and recovery features.

- iCAS FS is a software-defined, scale-out platform based on Linux and commodity hardware.

- It is a qualified Linux repository for Veeam backups: Veeam Backup & Replication™ collects data from VMs and other sources, and transforms and transports it to iCAS FS with the help of Veeam Enhanced Data Movers.

- The iCAS FS cluster is designed as a closed system that is completely monitored, administrated and managed by iTernity.

- You can achieve synergy effects by consolidating your backup storage and compliant archive in one platform.

- iCAS FS has been audited by KPMG for General Data Protection Regulation (GDPR) compliance.

Combining Veeam with iTernity provides an easy-to-use, highly scalable and flexible backup solution. It meets the long-term data protection needs of your organization and provides a cost-effective way to solve your backup storage challenges.
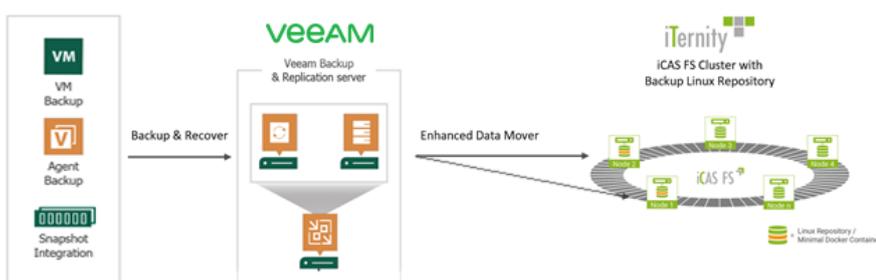
Environment configurations

The Veeam Enhanced Data Mover is installed on every cluster node of iCAS FS in a minimal docker container monitored by iTernity. To limit the external access, the Veeam server only has access to the container and does not have access to other repositories. No gateway server is interposed and deduplication is unnecessary, as data is written and restored in one piece.

Data is immediately written to the dedicated nodes with a configured number of replications. The cluster is accessible with virtual IP addresses that will transparently fail over from one node to another, making eventual downtimes transparent. In addition, the system is self-healing and errors will be fixed automatically, ensuring maximum protection against manipulation, corruption and unauthorized access.

Benefits

- One scale-out platform for backup, archiving and more use cases, as well as for all backup repositories to increase storage efficiency and create synergies.

- Cost-efficiency thanks to an auto-managed system, the use of commodity hardware and software intelligence, as well as the possibility to deploy the whole setup "as-a-service" via HPE Greenlake.

- Ransomware protection by limited access points and a hardened Linux OS.

- Improved backup and restore performance, as no deduplication is required and data is stored on-premises.

Use cases

All-in-one platform: iCAS FS supports all Veeam backup modes and recovery features and stores all backup repositories in one cluster. You can set up additional cluster nodes for different use cases such as compliant archiving and long-term data retention.

Everything-as-a-service: Veeam and iCAS FS can be purchased via HPE Greenlake to create a cloud-like, pay-per-use experience. The consumption-based model enables greater flexibility and agility while maintaining data control on-premises. HPE Greenlake with Veeam and iTernity deliver simple, automated backup, recovery and long-term retention.

Scale without complexity: iCAS FS can be set up from one to many nodes, so you can start small and grow as needed. The Veeam Enhanced Data Mover is available on each node for maximum availability and asynchronous replication is also possible, independent of the backup server. Since no intermediate gateway server is required, complexity and effort are reduced.

Cost and time-saving: iTernity takes care of the administration, monitoring and error handling of the whole iCAS FS setup. There is no need for training, administration tasks and troubleshooting, thus no efforts and risks for the customer. Additionally, iCAS FS is a software-defined cluster built on commodity hardware providing cloud experience on-premises without hidden costs.

Ransomware protection: iCAS FS is an auto-managed and closed Linux system without administrator access on the customer side. Veeam can only access the repositories for backup data. Ransomware would need to hack the three-level SSH credentials to access the backup data. In addition, the whole setup is monitored and logged by iTernity.

Performant backups and restores: The Veeam Enhanced Data Mover writes and restores data in one piece to iCAS FS — no deduplication is necessary. This increases the speed and simplifies hardware changes, as there is no risk of "forklift." All backup copies are on-premises for faster access and increased security.

Conclusion

Let's make backup storage simple, safe and efficient! With Veeam and iTernity you have no limitations in terms of scalability, backup modes and flexibility. Veeam Backup & Replication in combination with iCAS FS helps you reduce costs and keep pace with rapid data growth, confident that your backup service level agreements (SLAs) are securely met.

Learn more
www.veeam.com

Download free trial
veeam.com/backup

About Veeam Software

Veeam® is the leader in Backup solutions that deliver Cloud Data Management™. Veeam provides a single platform for modernizing backup, accelerating hybrid cloud and securing data. Veeam has 400,000+ customers worldwide, including 82% of the Fortune 500 and 69% of the Global 2,000. Veeam's 100% channel ecosystem includes global partners, as well as HPE, NetApp, Cisco and Lenovo as exclusive resellers. Veeam has offices in more than 30 countries. To learn more, visit www.veeam.com or follow Veeam on Twitter @veeam.

About Alliance Partner

iTernity develops software solutions to ensure the long-term availability and integrity of business-critical data. Data growth, strict regulatory requirements and complex IT infrastructures turn data storage into a time and cost guzzler. iTernity's software-defined approach helps solve these modern IT challenges and simplifies the protection of backup and archive data — flexible, secure and cost-efficient.

iTernity is HPE Silver Partner and can be purchased via HPE Complete and HPE Greenlake. iCAS FS is a "Veeam Ready — Repository"-qualified backup target, which covers various use cases around long-term data storage and compliant archiving.