



EBOOK

Veeam Backup and Replication

Backup and recover all your data, anywhere in the hybrid cloud.



veeam

Veeam Backup and Replication

Veeam Backup & Replication is a comprehensive data protection and disaster recovery software solution designed for virtual and cloud-based environments. It provides fast, reliable, and flexible backup and recovery options, protecting your critical data and applications against accidental loss, hardware failure, and malicious attacks.

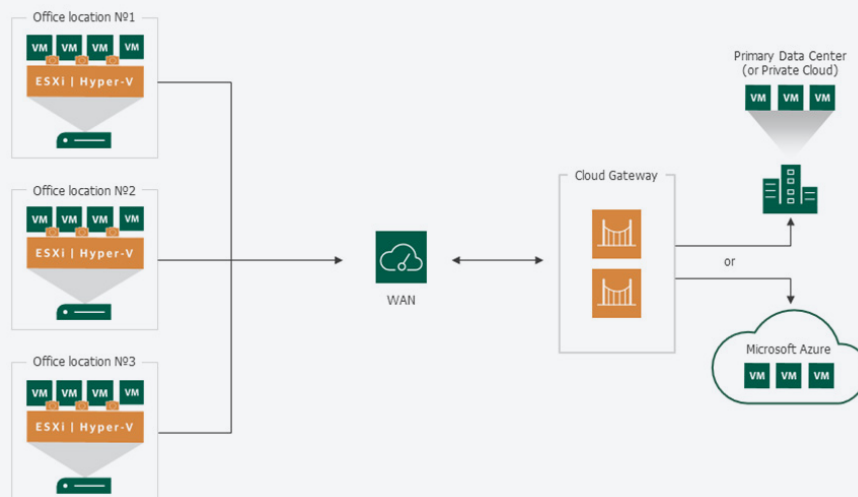
Key features of Veeam Backup & Replication include

- **High-Speed Recovery:** Provides fast and reliable recovery options, with near-instant recovery time objectives (RTOs) and recovery point objectives (RPOs).
- **Cloud Data Management:** Provides seamless integration with public cloud platforms like Amazon Web Services (AWS), Microsoft Azure, and Google Cloud Platform (GCP), allowing you to leverage the flexibility and scalability of cloud computing.
- **Backup and Replication:** Supports both backup and replication, to replicate your virtual machines (VMs) to a secondary site for disaster recovery purposes.
- **Advanced Security:** Includes advanced security features, such as ransomware protection and secure backup storage, to protect against cyber threats.
- **Multi-Platform Support:** Veeam Backup & Replication supports a wide range of virtual and cloud-based platforms, including VMware vSphere, Microsoft Hyper-V, Nutanix AHV, and many others.



Veeam Cloud Connect

Veeam Cloud Connect is a feature offered within the Veeam Backup & Replication software, which allows you to easily set up off-site backups and replicas of your virtual environment to a cloud repository. It is designed to provide a secure, reliable, and efficient way to manage off-site backups and disaster recovery without the need to maintain your own off-site infrastructure.



Key features and benefits of Veeam Cloud Connect include

- **Off-site Backup and Replication:** Enables you to create off-site backups and replicas of your virtual machines (VMs) to a cloud repository or a Wavenet data centre, ensuring data protection and facilitating disaster recovery.
- **Secure Data Transfer:** Data is encrypted during transmission and while at rest in the cloud repository, ensuring the privacy and security of your data. Veeam Cloud Connect uses SSL/TLS encryption for data in transit and AES 256-bit encryption for data at rest.
- **Bandwidth Optimisation:** Incorporates built-in WAN acceleration and data deduplication technologies to optimise bandwidth usage and reduce the amount of data transferred over the network, resulting in faster backup and replication processes.
- **Simplified Management:** Management of off-site backups and replicas is done from a single interface for a simplified and seamless user experience.
- **No VPN Required:** A secure connection is established without the need for a VPN, reducing complexity and potential security risks.
- **Scalability:** As your data grows or changes, Veeam Cloud Connect can easily be adjusted to meet the new requirements.

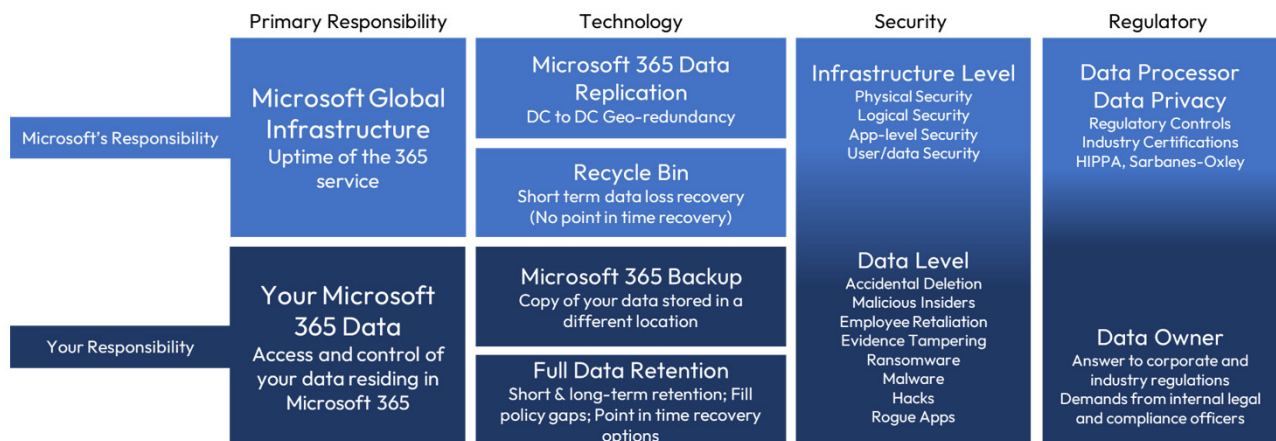
Veeam Backup for Microsoft 365

Veeam Backup for Microsoft 365 is a data protection and recovery solution designed specifically for Microsoft Office 365 environments. It provides comprehensive backup and recovery options for Exchange Online, SharePoint Online, OneDrive for Business, and Microsoft Teams data, ensuring that critical data is always protected against accidental deletion, security threats, and retention policy gaps.

Although Microsoft replicate the data within their data centres to protect themselves and they have a set of retention policies which gives you the ability to recover some data however, they don't necessarily protect you from the most common data loss pitfalls.

Office 365 backup and retention policies can only protect you from data loss in a limited way and are not intended to be a complete backup solution. It is common for administrators to believe they are covered, only to find that certain items are gone.

Microsoft 365 Shared Responsibility Model



Veeam Backup for Microsoft 365

Veeam protects you against accidental deletion, security threats and gaps in the Microsoft 365 retention policy. Restores can be performed quickly, from individual items to entire mailboxes, and legal and compliance requirements can be met with efficient eDiscovery of Microsoft 365 backup archives.

Key features of Veeam Backup for Microsoft Office 365 include

- **Cloud Data Management:** Provides seamless integration with Microsoft Office 365, enabling you to protect your critical data with a cloud-native solution.
- **Comprehensive Backup and Recovery:** Provides comprehensive backup and recovery options for Exchange Online, SharePoint Online, OneDrive for Business, and Microsoft Teams data, allowing you to easily restore individual items or entire mailboxes.
- **Advanced Security:** Includes advanced security features, such as multi-factor authentication and encryption, to protect against cyber threats.
- **Efficient Backup and Recovery:** Uses advanced backup technologies, such as incremental backups and compression, to minimise backup windows and reduce storage requirements.
- **Compliance and eDiscovery:** Provides advanced search capabilities and legal hold functionality, allowing you to meet compliance and eDiscovery requirements.



Deployment and Support

Prerequisites

- You must maintain any software assurance from Veeam so that you are entitled to the latest version of software.
- The local Veeam server should be configured to back up the required virtual servers to it with an agreed retention policy.
- The backups can be run as frequently as possible if required, or just daily, depending on your requirement.
- For Wavenet to be able to power up a replica server locally in the event of a disaster then the Veeam server must be of a suitable specification to allow this.
- It is important that the connectivity(Leased Line preferred) is suitable for the amount of traffic.

Wavenet Support

The Wavenet support team will configure the data centre Veeam service to back up the backup files on the Veeam server daily. The cloud will therefore always have the previous day's data available in the event of a disaster onsite. Once the data is received at the data centre it is stored in Wavenet's cloud storage SANs.

- A fully managed service with nightly data backups offering an RPO of 24 hours.
- Recovery time objective is 24 hours but can be longer depending on the amount of data being held and the speed of the leased line in place.
- Data is backed up and stored for 5 generations (1 for each of the previous 5 days).
- Wavenet will monitor the backups on a daily basis, to the cloud Veeam server and the local Veeam server.
- In the event of a local server failure, restores are completed from the local Veeam server.
- In the event of a complete disaster, which destroys the onsite server, the backed up data will be made available to be streamed back to you via the internet or will be restored to Wavenet's public cloud you to collect. Once this is complete, you can connect to the virtual servers via any internet connected device.
- Restores are available during normal working hours (2-hour response).
- Managed backups are monitored by a dedicated team of staff during normal working hours. Infrastructure is monitored 24/7.
- Non-critical issues are addressed next working day.
- You can trigger a restore from your own server 24/7 or, in the event of a disaster, you can log a managed service call with Wavenet 24/7 to begin the disaster recovery process.
- Wavenet takes responsibility for the management of the service but cannot be responsible for the validity of the data stored.

Deployment and Support

Disaster Recovery

In the event of a disaster onsite, Wavenet will supply Veeam images to you via the internet, or via external hard drive.

Alternatively, you can purchase compute resources from Wavenet that can be used in the event of a disaster. You would reserve instances of processing, memory and storage in Wavenet's public cloud entitling you to have your Veeam images restored to this reserved space, so you access your servers at the data centre.



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