

# Veeam Availability Suite

## Editions comparison

### What is Veeam Availability Suite?

Veeam® Availability Suite™ combines the industry-leading backup, restore and replication capabilities of Veeam Backup & Replication™ with the advanced monitoring, reporting and capacity planning functionality of Veeam ONE™ for VMware vSphere and Microsoft Hyper-V.

Veeam offers different editions of Veeam Availability Suite, based on the level of functionality you need from Veeam Backup & Replication.

### Veeam Availability Suite includes Veeam ONE

Veeam Availability Suite includes Veeam ONE, providing complete visibility of your IT environment through 24x7, real-time monitoring and alerting of your backup infrastructure, as well as your VMware vSphere and Microsoft Hyper-V environments including:

- Backup reporting (including backup configuration assessment).
- Infrastructure assessment tools.
- Resource optimization and advanced what-if capacity planning for VMware and Hyper-V.
- Multi-tenant monitoring and reporting.
- Over 200 pre-set alarms and health and performance dashboards.
- Fully customizable reporting.
- Veeam Cloud Connect monitoring and reporting for small businesses.

Veeam Availability Suite can also be purchased by small businesses with virtual environments of 6 CPU sockets or less (typically found in companies with fewer than 250 employees) under the product Veeam Backup Essentials™.

| Veeam Backup & Replication feature  | Standard edition | Enterprise edition | Enterprise Plus edition | Notes  |
|---|------------------|--------------------|-------------------------|--|
| <b>High-Speed Recovery</b>  |                  |                    |                         |  |
| <b>Entire VM recovery</b>   |                  |                    |                         |  |
| Full VM recovery  | ●                | ●                  | ●                       | Recover an entire virtual machine (VM) on the original host or on a different host. Includes quick rollback functionality to restore changed blocks only.  |
| Instant VM Recovery™  | ●                | ●                  | ●                       | Quickly restore service to users by starting a VM directly from a backup file on regular backup storage.   |
| VM file and virtual disk recovery   | ●                | ●                  | ●                       | Recover individual VM files (such as VMX) and virtual disks.   |
| Direct Restore to Microsoft Azure   | ●                | ●                  | ●                       | Restore or migrate on-premises, Windows-based or Linux-based VMs, physical servers and endpoints directly into Microsoft Azure.  |
| <b>File-level recovery</b>  |                  |                    |                         |  |
| Instant File-Level Recovery   | ●                | ●                  | ●                       | Recover files from 19 common file systems used by Windows, Linux, BSD, Mac OS, Novell, Solaris and Unix. <sup>3</sup>  |
| <b>Item-level recovery</b>  |                  |                    |                         |  |
| Veeam Explorer™ for Storage Snapshots (HPE, NetApp, Dell EMC and Nimble) <sup>1</sup> | ●                | ●                  | ●                       | Restore individual VMs, guest files and application items from Dell EMC VNX, VNX2 and VNXe snapshots, Hewlett Packard Enterprise (HPE) 3PAR StoreServ, StoreVirtual and StoreVirtual VSA snapshots, as well as from NetApp Data ONTAP-based storage, including FAS, FlexArray, Data ONTAP Edge and Nimble CS-series and AF-series snapshots. |

| Veeam Backup & Replication feature                          | Standard edition | Enterprise edition | Enterprise Plus edition | Notes   |
|---|------------------|--------------------|-------------------------|---|
| Veeam Explorer for Microsoft Active Directory               |                  |                    |                         | <p>Search and restore for all Active Directory (AD) object types, such as users, groups, computer accounts and contacts, including user and computer password recovery.</p> <p>All editions support single user and computer account restore via export in LDIFDE format or restore back to AD, plus the ability to restore passwords. Enterprise and Enterprise Plus editions include multi-select restore and container restore, Group Policy Objects (GPO) restore, AD-integrated DNS records restore and Configuration Partition objects restore.</p> |
| Veeam Explorer for Microsoft Exchange                       |                  |                    |                         | <p>Get instant visibility into Microsoft Exchange 2010, 2013 and 2016 backups for item recovery of individual Exchange items (emails, appointments, notes, contacts, etc.), online archive mailboxes and hard-deleted items. Leverage comprehensive e-Discovery functionality, including query-result, size estimation and detailed export reports.</p> <p>All editions support Exchange mailbox item restore via save, send and PST export. Enterprise and Enterprise Plus editions support restore back into the original mailbox.</p>                  |
| Veeam Explorer for Microsoft SQL Server                     |                  |                    |                         | <p>Restore individual SQL databases with ease, without needing an extensive SQL background or having to search for database and transaction-log files.</p> <p>All editions support point-in-time export of SQL database files locally. Enterprise and Enterprise Plus editions include agentless, transaction-log backup and replay, transaction-level recovery of databases and SQL objects (tables, stored procedures, views, etc.) back to the original or new SQL server.</p>   |
| Veeam Explorer for Microsoft SharePoint                     |                  |                    |                         | <p>Get instant visibility into SharePoint backups with advanced search-and-browse capabilities for quick recovery of individual SharePoint items and entire sites.</p> <p>All editions support SharePoint item restore via save, send and export. Enterprise and Enterprise Plus editions also support entire-site restore, as well as restore to the original location.</p>  |
| Veeam Explorer for Oracle                                   |                  |                    |                         | <p>Restore individual Oracle databases with ease, without needing an extensive Oracle background or having to search for database and transaction-log files.</p> <p>Enterprise and Enterprise Plus editions include agentless, transaction-log backup, archived log management and transaction-level recovery of databases back to the original or new Oracle server.</p>   |
| U-AIR® (Universal Application-Item Recovery)                |                  |                    |                         | <p>Recover individual objects for ANY virtualized application, including PostgreSQL and MySQL databases, by starting up the VM directly from a backup file in an isolated environment and accessing the application with native management tools.</p>   |
| <b>Self service</b>   |                  |                    |                         |   |
| 1-Click File and VM recovery portal for help desk operators |                  |                    |                         | <p>Restore guest files and VMs with a single click through a web UI.</p>  |

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|--|------------------|--------------------|-------------------------|--|
| Microsoft Exchange item recovery portal for help desk operators                                    |                  | ●                  | ●                       | Restore missing mailbox items back to the original mailbox with a single click through a web UI.   |
| Database recovery portal for Microsoft SQL DBAs  |                  | ●                  | ●                       | Restore individual databases back to the original server or a new SQL server with a single click through a web UI.   |
| Self-service, file-restore portal for application owners   |                  |                    | ●                       | File-restore portal with automatic VM detection, and automatic delegation based on local administrator group membership.   |
| Recovery delegation  |                  |                    | ●                       | Enable full self-service for all web UI recovery features by delegating recoveries for individual VMs and groups of VMs to specific users or groups such as local IT staff, application owners, department members, etc.   |
| <b>Data Loss Avoidance</b>   |                  |                    |                         |  |
| <b>Backup</b>  |                  |                    |                         |  |
| Application-aware, image-based backups   | ●                | ●                  | ●                       | Create application-consistent, image-level VM backups with advanced, application-aware processing (including transaction log truncation).  |
| VeeamZIP™  | ●                | ●                  | ●                       | Streamline ad-hoc backups of live VMs for archival purposes.   |
| Quick backup   | ●                | ●                  | ●                       | Perform quick incremental backups of individual VMs with the existing backup job.  |
| ROBO Guest Interaction Proxy   |                  | ●                  | ●                       | Reduce the load on the central backup server and simplify scalability for enterprise-level businesses with a large number of remote office/branch offices (ROBOs) when performing application-aware processing and guest file system indexing.   |
| Backup I/O control   |                  | ●                  | ●                       | Allows you to set the maximum acceptable I/O latency level for production datastores to ensure that backup and replication activities do not impact storage availability to production workloads. Enterprise edition includes a global latency setting, and Enterprise Plus edition provides setting customization on a per-datastore basis. |
| Backup from Storage Snapshots (HPE, NetApp, Dell EMC and Nimble) <sup>2</sup>                      |                  |                    | ●                       | Create image-based backups and replicas from Dell EMC VNX, VNX2 and VNXe snapshots, HPE 3PAR StoreServ, StoreVirtual and StoreVirtual VSA snapshots, as well as from NetApp Data ONTAP based storage including FAS, FlexArray (V-Series), Data ONTAP Edge, IBM N series and Nimble CS- and AF-series snapshots,                              |
| Backup from NetApp SnapMirror and SnapVault <sup>1</sup> and Nimble Replicated Copies <sup>1</sup> |                  |                    | ●                       | as often as necessary with little to no impact on production. Eliminate additional impact from backup activities on production storage by retrieving VM data from NetApp SnapMirror or SnapVault and Nimble Replicated Copies secondary storage systems, instead of from the primary storage system.   |

| Veeam Backup & Replication feature                        | Standard edition | Enterprise edition     | Enterprise Plus edition                                | Notes  |
|---|------------------|------------------------|--|--|
| Secondary backup to NetApp or Nimble storage <sup>1</sup> | SnapShot         | SnapShot<br>SnapMirror | SnapShot<br>SnapMirror<br>SnapVault<br>Replicated copy | Create a second, application-consistent, storage-snapshot-based backup to NetApp Data ONTAP-based storage, including FAS, FlexArray (V-Series), Data ONTAP Edge VSA and IBM N series or Nimble CS- and AF-series arrays.   |
| <b>Storing backups</b>                                    |                  |                        |  |  |
| Synthetic full backup                                     | ●                | ●                      | ●  | Eliminate the need for periodic full backups by creating forever-incremental backups that save time and storage.   |
| Built-in deduplication, compression and swap exclusion    | ●                | ●                      | ●  | Decrease backup storage requirements and network traffic with built-in deduplication; multiple compression options let you balance storage consumption with performance and backup proxy load; swap exclusion reduces backup footprint and improves performance.   |
| BitLocker   | ●                | ●                      | ●  | Analyzes the NTFS Master File Table (MFT) to identify blocks belonging to deleted files, and skips those blocks from image-level processing to reduce backup-file sizes and replication-bandwidth consumption.   |
| Backup Copy jobs  | ●                | ●                      | ●  | Copy all or selected VM backups to your DR storage location of choice automatically, including validation and remediation to ensure copies are available and reliable.   |
| Veeam Cloud Connect Backup                                | ●                | ●                      | ●  | Get your backups off site with fully integrated, fast and secure backup, and restore from the cloud through a service provider of your choice.   |
| End-to-end encryption                                     | ●                | ●                      | ●  | Secure backup data and network transfers with end-to-end AES 256-bit encryption, without any negative impact on built-in compression and WAN acceleration data-reduction ratios.<br>All editions include at-source (during backup), in-flight (network traffic) and at-rest (tape) encryption. Enterprise and Enterprise Plus editions also include lost password protection.  |
| Native tape support                                       | ●                | ●                      | ●  | Back up and archive files and VM backups to standalone tapes, tape libraries and virtual tape libraries connected to any Microsoft Windows server in your environment.<br>All editions support copying Windows, Linux and VM backup files to tape. Enterprise and Enterprise Plus editions add tight integration with backup jobs and support full tracking of VMs and restore points on tape, as well as in media vaults. These editions also include support for global media pools (spanning multiple tape libraries) and a dedicated media-pool type to simplify Grandfather-Father-Son (GFS) retention. |
| Proxy affinity  |                  | ●                      | ●  | Simplify job creation and map direct connections between proxies and backup repositories.  |
| Deduplicating storage integrations                        |                  | ●                      | ●  | Get faster backup performance by backing up to deduplicating storage integrations (EMC Data Domain Boost, HPE StoreOnce Catalyst and ExaGrid Accelerated Data Mover).  |
| Per-VM backup files for deduplicating storage             |                  | ●                      | ●  | Store each VM in a separate backup file to enhance backup performance when backing up to deduplicating storage. This is accomplished by leveraging parallel VM processing to enable multiple, concurrent write streams.  |

| Veeam Backup & Replication feature       | Standard edition | Enterprise edition    | Enterprise Plus edition | Notes   |
|--|------------------|-----------------------|-------------------------|---|
| File-selective, image-level processing   |                  | ●                     | ●                       | Exclude individual files and folders during backup and replication to reduce the amount of data that needs to be transferred and stored.  |
| Built-in WAN Acceleration                |                  | ●                     | ●                       | Get backups off site up to 50x faster and save bandwidth with agentless Backup Copy jobs.<br>Enterprise edition supports Built-in WAN Acceleration to Veeam Cloud Connect targets only. Enterprise Plus edition supports Built-in WAN Acceleration to any target. |
| Scale-out Backup Repository™             |                  | Three extents maximum | Unlimited extents       | Provide an abstraction layer over individual storage devices to create a single virtual pool of backup storage for your backups.  |
| <b>Replication</b>                       |                  |                       |                         |   |
| Image-based VM replication               | ●                | ●                     | ●                       | Replicate VMs on site for high Availability, or off site for DR.  |
| Veeam Cloud Connect Replication          | ●                | ●                     | ●                       | Ensure Availability of your mission-critical applications with fully integrated, fast and secure cloud-based DR through a DRaaS (Disaster Recovery as a Service) provider of your choice.   |
| Assisted failover and failback           | ●                | ●                     | ●                       | Replica rollback and assisted failover and failback.  |
| Replication from a backup                | ●                | ●                     | ●                       | Create replicas directly from VM backup files without impacting production.   |
| Planned failover                         | ●                | ●                     | ●                       | Facilitate data-center migrations with zero data loss.  |
| 1-click failover orchestration           |                  | ●                     | ●                       | Built-in failover plan orchestration enabling easy, 1-click-site failover to minimize unplanned downtime.   |
| Built-in WAN Acceleration                |                  | ●                     | ●                       | Get replicas off site up to 50x faster and save bandwidth.<br>Enterprise edition supports Built-in WAN Acceleration to Veeam Cloud Connect targets only. Enterprise Plus edition supports Built-in WAN Acceleration to any target.                                |
| <b>Verified Recoverability</b>           |                  |                       |                         |   |
| SureBackup®                              |                  | ●                     | ●                       | Automatically test and verify every backed-up VM for recoverability by running the VM directly from the backup file (no full VM restore is required), including support for custom application test scripts.  |
| SureReplica¹                             |                  | ●                     | ●                       | Automatically test and verify every replica VM for recoverability, including support for custom application test scripts.   |
| <b>Leveraged Data</b>                    |                  |                       |                         |   |
| On-Demand Sandbox™                       |                  | ●                     | ●                       | Run one or more VMs directly from a backup in an isolated environment with the ability to troubleshoot, test and train on a working copy of the production environment, without impacting business operations.  |
| On-Demand Sandbox for Storage Snapshots¹ |                  |                       | ●                       | Use storage snapshots to quickly create complete isolated copies of your production environment, for fast and easy testing and troubleshooting.   |

| Veeam Backup & Replication feature                       | Standard edition | Enterprise edition | Enterprise Plus edition | Notes  |
|--|------------------|--------------------|-------------------------|--|
| <b>Complete Visibility</b>                               |                  |                    |                         |  |
| Support for VMware vSphere and Microsoft Hyper-V         | ●                | ●                  | ●                       | Support for VMware vSphere 4.1 or later and Microsoft Hyper-V 2008 R2 SP1 or later. View both hypervisors from a single console.   |
| vSphere Web Client Plug-in <sup>1</sup>                  | ●                | ●                  | ●                       | Perform VeeamZIP and Quick Backup; monitor backups, easily identify unprotected VMs and simplify capacity planning — all directly from the vSphere Web Client.   |
| Standalone console                                       | ●                | ●                  | ●                       | Install the console separately from the backup server for installation on laptops and desktops, eliminating Remote Desktop Protocol (RDP) sessions to a backup server.   |
| Centralized Management Web UI (Veeam Enterprise Manager) | Ⓧ                | ●                  | ●                       | Get a web-based, consolidated view of your distributed deployment in a single pane of glass, without having to login to individual backup servers, including federation of multiple backup servers, centralized reporting and consolidated alerting.<br><br>All editions include monitoring and reporting across multiple backup servers, as well as the ability to start and stop jobs.<br><br>Enterprise and Enterprise Plus editions also include full job management functionality, and the ability to perform restores.   |
| Guest file system indexing                               | Ⓧ                | ●                  | ●                       | A catalog of guest files enabling effortless search of individual files to find and restore a file without knowing the precise file location, or the time when it was deleted.<br><br>All editions provide a catalog of guest files in backups currently on disk. Enterprise and Enterprise Plus editions also provide a catalog of archived backup files, and integrate with one click to enable restores directly from search results.   |
| vCloud Director support <sup>1</sup>                     | Ⓧ                | Ⓧ                  | ●                       | Back up vApp and VM metadata and attributes and restore vApps and VMs directly to vCloud with full support for fast-provisioned VMs.<br><br>All editions provide integrated visibility of vCloud Director infrastructure, backup via VeeamZIP (including backup of vApp and VM meta data and attributes) and direct restore to vCloud. Enterprise edition supports scheduled incremental backup jobs of vCloud VMs, as well as customer portal integration via RESTful API. Enterprise Plus edition supports self-service, tenant-managed backup and restore via Enterprise Manager, as well as native vCloud Director authentication. |
| <b>Other capabilities</b>                                |                  |                    |                         |  |
| Multiple storage-access options                          | ●                | ●                  | ●                       | Backup and replicate directly from SAN and NFS storage, through hypervisor I/O stack or over LAN.  |
| Changed block tracking                                   | ●                | ●                  | ●                       | Minimize backup time and allow for more frequent backup and replication. Supported on both VMware and Hyper-V.   |
| File Manager   | ●                | ●                  | ●                       | Integrates file management (Veeam FastSCP™) into the operator console.   |



| Veeam Backup & Replication feature | Standard edition | Enterprise edition | Enterprise Plus edition | Notes  |
|------------------------------------|------------------|--------------------|-------------------------|--|
| Quick migration <sup>1</sup>       | ●                | ●                  | ●                       | Migrate VMware VMs between hosts and datastores using VMware vMotion, Storage vMotion and Veeam-provided migration technology. |
| Task automation                    | ◐                | ◐                  | ●                       | All editions support PowerShell. Enterprise Plus edition also supports RESTful API.  |

<sup>1</sup> VMware only

<sup>2</sup> VMware only, yet supported natively for Hyper-V

<sup>3</sup> Some file systems supported for VMware only

● Fully supported    ◐ Partially supported



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