

Veeam ONE

What's new in V12?

Veeam® ONE™, Veeam's comprehensive monitoring and analytics solution, delivers intelligent insights and visibility that help you identify and resolve issues before they cause problems, ensuring the protection of your critical data.

NEW Veeam ONE v12 expands on these capabilities to include more Veeam backup environments and solutions like Veeam Backup for Microsoft 365. Additionally, Veeam ONE v12 adds new monitoring and visibility capabilities to the latest features of Veeam Backup & Replication™ v12, including immutability reporting and data protection statuses for the multi-cloud. These advances deliver more value and insight into your business' data protection strategy than ever before.

Major NEW features



Veeam Backup for Microsoft 365 monitoring, reporting and alerting

NEW Veeam ONE v12 brings unparalleled visibility into Microsoft 365 data protection. Veeam ONE continues to be the best and most comprehensive monitoring, reporting and alerting tool for Veeam Platform. The unique benefits of Veeam Backup for Microsoft 365 support include:

- **Monitoring:** Added visibility of Veeam Backup for Microsoft 365 infrastructure components and jobs in the Client UI. This also includes performance data that's collected directly from connected infrastructure servers.
- **Alerting:** Added 11 new alarms to Veeam Backup for Microsoft 365 in order to help you be proactively notified about service level agreement (SLA) issues, infrastructure health statuses, licensing statuses and unusual job durations.
- **Reporting:** Added a purpose-built section to help with governance and compliance for customers that protect Microsoft 365 workloads. Full list of reports include: Protected objects, job history, backup SLA compliance and latest job status.
- **Dashboards:** Added at-a-glance visibility, where Veeam ONE users can see all their required Microsoft 365 data protection on a single and powerful dashboard.



Jobs calendar

NEW Veeam ONE v12 introduces a new functionality: Jobs Calendar. This feature-rich dashboard covers multiple usage scenarios and allows users to:

- Give customers an at-a-glance view of both the future and the past through a schedule of all their jobs, including execution time.
- Easily find empty slots when no jobs are running, thus leaving backup proxies at the lowest load, which could be repurposed for other operations to enhance recovery time objectives (RTOs) like replicas or Continuous Data Protection (CDP) policies.

Within all the new functionalities and use-cases that Jobs Calendar brings, technical decision makers, backup operators or backup administrators can get a better understanding of the concurrent backup tasks happening at any point in time.

Jobs Calendar also includes industry-first, deep-dive visibility of backup policies, per workload and policy type.



REST APIs

NEW Veeam ONE v12 introduces official REST API support so customers and service providers can unleash the flexibility and power that comes with automation and third-party integration.

Veeam ONE v12 introduces new endpoints for data protection monitoring, such as:

- **Veeam Backup & Replication infrastructure and jobs:** Veeam ONE v12 enables querying for any data related to Veeam Backup & Replication, including jobs, failover plans, backup infrastructure components, backup metrics and much more.
- **Veeam Backup for Microsoft 365 infrastructure and jobs:** Service providers and enterprise organizations can query all detailed information regarding Microsoft 365 data protection, including the protection status of every single object. This data can be fed to third-party monitoring and reporting tools.
- **Enterprise application plug-ins:** These gather information about all the protected databases, plus all the required points based on an SLA, including transaction logs. These new endpoints in Veeam ONE v12 accelerate reporting and help improve database administration compliance and governance regarding data protection for these critical workloads.
- **Protected workloads:** With Veeam ONE v12, customers can get detailed information of the protection status of a particular virtual, physical or cloud-based workload.

- **Alarms:** With v12, operation teams can build custom monitoring dashboards and integrations via ITSM systems with the help of REST APIs.
- **Veeam ONE Business View:** If customers use Veeam ONE Business View to perform logical groupings of virtual infrastructure objects, they can now get all the available information about Veeam ONE Business View categories, groups, contained objects and attributes to integrate it with any dashboard or reporting system.
- **Virtual infrastructure:** Veeam ONE v12 allows customers to pull any data related to the virtual infrastructure components added to Veeam ONE. For example, this could be a VMware vSphere Host sensor status or a simple virtual machine (VM) status.



Security

NEW Veeam ONE v12 brings a number of security enhancements to help security teams comply with strict regulations.

- **Auditing:** All actions performed with Veeam ONE Client, Veeam ONE Web Client, Veeam ONE Settings Utility and REST API can now be logged if the new option is enabled. Logs can be found in the Windows event log.
- **Support for certificate-based authentication** (including CAC) in Veeam ONE Web Client. This is an anticipated and secure MFA that many enterprise customers requested for the Veeam ONE web UI.
- **Granular authentication methods control:** Veeam ONE v12 gives customers the ability to choose between different user authentication methods, which include: Basic authentication, Windows authentication and client certificate mapping authentication.
- **Lockdown mode with a single checkbox:** Veeam ONE v12 added the ability to restrict logins to the client and web client for users with limited privileges. This checkbox is particularly relevant when an audit is happening, when troubleshooting a security incident or any time you'd want to give visibility to administrators only

Other features



Enhanced support for Veeam Backup & Replication

In addition to the major new functionalities and enhancements, Veeam ONE v12 includes major improvements in different existing areas of the product, such as:

Immutability: Reporting

- Added a brand-new “immutable workloads” report that assesses your entire environment to check immutability best practices. This feature also shows a detailed list of workloads and restore points with their corresponding immutability statuses.
- Added support for immutable backup repositories as part of the “Direct backup to object storage” feature in the workload protection history report.
- Added support for immutable backup repositories as part of the “Direct backup to object storage feature” to the Scale-out Backup Repository™ configuration report.
- Added support for immutable backup repositories being a part of the “Direct backup to object storage” feature to backup objects change tracking and backup infrastructure audit reports.

Immutability: Monitoring and alerting

Added support for backup repositories as part of the “Direct backup to object storage feature” to both the immutability state and immutability change tracking alarms.

Enterprise application plug-ins

- **Application backup policy monitoring:** Enterprise application backup policies and related transaction logs can now be monitored through the Veeam ONE Client via the Veeam Backup & Replication section > data protection.
- **Database processing reports:** A brand-new report that helps identify databases that were not processed in the defined recovery point objective (RPO) period.
- **Alerting:** New purpose-built alarms for enterprise application plug-in visibility will be introduced in v12, including: Application backup policy state and application with no recent data backup sessions.
- **Enhanced reporting:** With Veeam ONE v12, up to nine reports can now include all the required data protection statuses and detailed session results from Veeam Enterprise Plug-ins (i.e., SAP Hana, Oracle RMAN, SAP Oracle). This also includes a detailed list of updated reports, like: backups on the repository, capacity planning for backup repositories, database log protection history, immutable workloads, job configuration change tracking, job configuration dump, restore operator activity, Scale-out Backup Repository configuration and workload protection history.
- **Enhanced alerting:** Similar to reporting, customers that run Veeam Enterprise plug-ins can now get real-time alerts that are purpose-built for critical workloads along with up to six enhanced alerts that support Veeam Enterprise Plug-ins, including: Database log backup job state, job disabled, job exceeded backup window, restore activity, suspicious incremental backup size and unusual job duration.

- **Veeam ONE Business View:** Veeam ONE v12 includes a new Business View group for enterprise application plug-ins that allows you to group application servers and clusters to simplify the reporting process, and alerting is required for all these critical workloads.

Support for the "Direct backup to object storage" feature

- **Monitoring and alerting:** With this release, Veeam ONE extends real-time monitoring and alerting to backup repositories that was already part of the "Direct backup to object storage" feature to all existing alarms, where applicable.
- **Enhanced reporting:** Veeam ONE v12 comes with up to six enhancements to major reports, so customers gain detailed visibility into the new object storage repositories used for "Direct backup to object storage". A complete list of updated reports include: Scale-out Backup Repository configuration, backup objects change tracking, backup infrastructure audit, backups on the repository, backup inventory and backup infrastructure custom data.
- **Dashboards:** Added support for backup repositories as part of the "Direct backup to object storage" feature for Web Client dashboards and widgets.

Enhanced CDP support

New Veeam ONE v12 includes enhanced visibility, monitoring and alerting for new CDP to VMware Cloud Director and Veeam Cloud Connect.

- **Monitoring and alerting:** Added support for VMware Cloud Director over CDP and CDP to Veeam Cloud Connect policies in Veeam ONE Client. Updated all major alarms to support the following scenarios: Backup proxy connection failure, backup proxy is out of date, CDP proxy cache usage, backup alarms overview, current backup alarms state overview, backup infrastructure audit, backup objects change tracking, backup inventory, backup infrastructure custom data, CDP SLA compliance, data sovereignty overview, job configuration change tracking and job configuration dump.
- **Linux CDP proxy monitoring:** Veeam ONE v12 added visibility to CDP proxies based on Linux in Veeam ONE Client.

Support for PostgreSQL transaction log backups

With Veeam ONE v12, database administrators can protect and monitor real-time PostgreSQL backups every few minutes, including application-aware transaction logs.

- **Monitoring and alerting:** PostgreSQL transaction log backup jobs can now be seen with Veeam ONE Client. Additionally, new purpose-built alerts have been created for these new application-aware transaction log jobs.
- **Enhanced reporting:** Updated workload protection history and database log protection history reports add support for PostgreSQL transaction log backup jobs

Support for Scale-out Backup Repository data transfer sessions

Veeam ONE v12 brings highly anticipated monitoring and reporting for transferred data to object storage. As object storage backup repositories become more popular among Veeam customers, natural evolution requires detailed monitoring and reporting of the data that's transferred to object storage, especially when using the public cloud.

- **Monitoring:** Enhanced the Veeam ONE Client view by adding a new tab called "data transfer" that supports both capacity tier and archive tier. Statistical data and data transfer sessions with detailed information can help you make more informed decisions.
- **Enhanced reporting:** Updated workload protection history reports that add all the data transfer sessions from Scale-out Backup Repositories.
- **Alerting:** Added new Scale-out Backup Repository data transfer session state alarms.

Expanded public cloud data protection support

As Veeam keeps adding data protection support for different public cloud functionalities and services, the reporting, auditing and monitoring of these services become ubiquitous. Veeam ONE v12 has expanded the following:

- **Enhanced protected cloud instances report:** Get detailed visibility of protected and unprotected services from your public cloud. This supports AWS (e.g., EC2, RDS, EFS, VPC), Microsoft Azure (e.g., VMs, SQL Database, Azure Files) and Google Cloud Platform (e.g., Compute Engine, Cloud SQL).
- **Enhanced alarms:** Cloud backup policy session states now include all the aforementioned cloud services. Giving customers real-time notifications across all the different cloud providers and services that Veeam cloud backup protects.
- **Enhanced real-time visibility:** Customers can easily get deep, real-time visibility into Veeam ONE Client for protected cloud workloads. VMs, databases, VPCs and file shares. Additionally, all the way to the last backup status and date, the last backup copy and last archive have been introduced for full data retention visibility.



UI enhancements

- **Enhanced the logical view of similar use-case tabs in Veeam ONE Client.** For example, the new "performance" tab includes all the CPU, memory and disk metrics.
- **Enhanced data protection view that groups jobs per workload type.** In Veeam ONE v12 Client, Veeam ONE users can find a new sub-tab that contains job processing workloads of a specific type. As a quick example: All job processing VMs are located on the VMs tab.

- **Enhanced data protection view that groups jobs and policies.** Veeam ONE v12 Client allows you to select whether you'd like to see jobs, policies or processing workloads located either on-premises or in the cloud.
- **New "scheduling" tab in Veeam ONE Web Client.** Moved to prime-time, Veeam ONE v12 will help you view, organize, edit and add new schedules for your reports, reports folder and dashboards. It's now possible to schedule reports directly from the report template page.
- **Veeam ONE Web Client onboarding wizard.** A brand-new onboarding wizard has been implemented into Veeam ONE v12 that highlights all the new features of each release upon logging into Web Client, and is updated every time we release a new version.
- **Dashboard enhancements.** Top widget Repositories by Used Space now include a similar drill-down per repository, like in the reporting area. Additionally, the capacity planning widget now supports environments greater than 100mbps. You can now also introduce a new wizard when creating a new widget.



Credentials manager

New, simple and secure credential management: Veeam ONE v12 introduces a brand-new credentials manager that simplifies the operations of storing, maintaining and operating credentials for various infrastructure servers and VM guest OSes.



Remediation actions

New, automated remediation actions: Veeam ONE v12 keeps innovating and frees backup administrators from common tasks. With Veeam ONE v12, you can add remediation actions to your orchestration, even if your VM is down. If this happens, you can turn on another VM, reboot the VM, add a workload (or job) to the SureBackup® job and start the verification.



Alarms

- **New alarms:** Added four new alarms to enhance Veeam ONE health monitoring: Staging data processing issues, reporting data scheduling issues, audit log failures and audit log free space. These alarms allow customers to be on top of events that could have an impact on the monitoring and reporting capabilities of the product.
- **Support for OAuth 2.0 for mail server communication:** Veeam ONE v12 supports modern authentication for Microsoft 365 and Google Mail.
- **Enhance alerting:** Added Veeam Backup *for Microsoft 365* support to these existing alarms: Backup performance data collection failure, backup data collection failure and Veeam ONE license exceeded.

 Reports

- **Enhanced restore operator activity report:** One of the most popular reports now covers additional technologies and restore types. All NAS restore operations are now covered along with Export Disk, Oracle RMAN, restores from replicas, full VM and guest file restores from Veeam backup cloud solutions and restores that are performed by tenants (available only for Veeam Cloud Connect providers).
- **New Veeam Backup & Replication connectivity notifications:** If Veeam Backup & Replication data collection fails or is not up to date during report generation, then it will show up at the top of the report so Veeam ONE users can see it immediately and not report on incomplete data.
- **Enhanced backup billing report:** Gives users the ability to define whether data stored on their object storage repositories should be included in their calculations and when setting up individual cost multipliers for individual Scale-out Backup Repository extents.
- **Enhanced backups on the repository report:** Get all the details and data stored on individual Scale-out Backup Repository extents.
- **Enhanced workload protection history report:** This report now includes support for NAS backup, Nutanix AHV backup, VMware Cloud Director backup and VMware Cloud Director replication technologies.
- **Enhanced Hyper-V custom infrastructure report:** Added Boot Time property to the custom infrastructure report for Microsoft Hyper-V.
- **Enhanced Hyper-V active checkpoints report:** Multiple columns have been renamed to comply better with Hyper-V terms and usage.
- **Enhanced data change rate history report:** Added range parameters to the data change rate history report.
- **Enhanced VMs and template reporting:** The number of VMs and templates are now split into two separate counters in the datastore capacity and infrastructure overview report.
- **Enhanced job history report:** A wider range of possible time periods can be selected by using the "last" parameter when producing a report.
- **Business hours default value:** Changed the default value of the "business hours only" parameter to 9 a.m.–6 p.m. in all reports, where applicable.
- **Sensitive/classified output banners:** This new feature meets the requirement for making a sensitive/classified banner as per STIG V-6146. When enabled, customers will see this new banner on all their produced reports.

- **Azure immutability support:** This new and highly anticipated Azure immutability functionality can be seen if enabled under the backup infrastructure audit report for both use-cases, backup repositories and as part of the Scale-out Backup Repository.
- **Enhanced exported tapes report:** Tape expiration statuses and dates have been added to the exported tapes report.



IPv6 support

Veeam ONE v12 includes full support for network infrastructures via dual-stack or full IPv6 implementation.



Notification bell in Veeam ONE Web Client

Veeam ONE v12 introduces a new notification functionality included in Web Client, which will help backup administrators and NOC engineers stay on top of the most critical alarms and notifications within their web browser.

- **Full list of supported alarms and notifications:** Not-responding infrastructure servers, including Veeam Backup & Replication, Veeam Backup for Microsoft 365, VMware vSphere, VMware Cloud Director, Hyper-V, monitoring service is unreachable, license expiration, reporting data scheduling issue, Veeam Backup Enterprise Manager connection failure, Veeam ONE support expiration date, Veeam ONE license exceeded, staging data processing issue and failed object properties data collection.

Other enhancements

- **New notice and consent banner:** For some government customers, an administrator must configure the standard Department of Defense (DoD) notice and consent banner. Starting in Veeam ONE v12, this can be configured for Veeam ONE Client and Veeam ONE Web Client.
- **Veeam ONE session timeout:** Customers can now control the length of a user's login session for Veeam ONE Client and Veeam ONE Web Client.
- **Enhanced scalability when handling large Veeam Backup & Replication environments** with large databases due to File to Tape Jobs, a large number of workloads, etc.
- **Save logins and passwords on Veeam ONE Client:** Starting in Veeam ONE v12, customers can save login credentials on Windows Credentials Manager and create a desktop shortcut for easier console access.
- **Enhanced scalability, improved precision, and reduced time to generate large reports like** Backup Billing, Tape Media Retention Period Report, and much more.

- **Redesigned Veeam ONE Client navigation pane:** Starting in Veeam ONE v12, the main navigation pane will be redesigned, making it easier for customers to consume different data protection infrastructure tree assets.
- **Enhanced Object Properties Collection.** Veeam ONE v12 enables you to ingest larger VMware vSphere deployments with a large number of vSphere tags.
- **Last logon time screen:** Starting in Veeam ONE v12, customers can easily identify when the last login attempt was, including failed login attempts.
- **Sensitive/classified output banner.** This new feature meets the requirement for making a sensitive/classified banner as per STIG V-6146. When enabled, customers will see this new banner on Veeam ONE Client.
- **Improved SQL staging process** for smoother and faster operations.

Platform support

- **Veeam Backup & Replication v12:** Customers can now monitor, report and receive alarms to get the most out of NEW Veeam Backup & Replication v12 features.
- **Veeam Backup for Microsoft 365 v7 support:** Customers can now monitor, report and receive critical alerts on Microsoft 365 data protection that was done with Veeam Backup for Microsoft 365 v7.
- **VMware vSphere 8.0 support:** Organizations can now monitor and report on VMware infrastructures that run vSphere 8.
- **VMware Cloud Director 10.4 support:** Service providers can now perform monitoring and reporting tasks on VMware Cloud Director 10.4 infrastructures.



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