

Veeam ONE

What's new in 9.5 Update 4?

Veeam® ONE™ 9.5, part of Veeam Availability Suite™, provides complete visibility into your entire IT environment, including virtual and Veeam-protected cloud and physical workloads. With support for Veeam Backup & Replication™, Veeam Agents for *Microsoft Windows* and *Linux*, as well as virtual environments, Veeam ONE delivers deep, intelligent monitoring, reporting and automation through interactive tools, so you can be alerted to and resolve problems before operational impact. The following is a list of the major new features and functionalities introduced with Veeam ONE 9.5.

Veeam ONE 9.5 Update 4: What's new?

Veeam ONE 9.5 Update 4 includes dozens of enhancements and bug fixes. The following is a list of the most significant enhancements.

Main Features

- **Veeam Intelligent Diagnostics.** Increase availability, save time and reduce support interactions with a proactive identification and alerting of known infrastructure problems with prepared workarounds and resolutions.
- **Remediation actions.** Improve response times and reduce downtime by automating manual routine processes associated with fixing common backup and virtual infrastructure-related issues such as snapshot deletion and missed RPOs.
- **Business View 2.0.** Improve visibility for virtual and agent-based infrastructures by easily grouping VMs and computers into business groups to satisfy specific business needs, through a rebuilt categorization engine embedded in Veeam ONE Monitor.
- **Application-level monitoring.** Ensure the availability of mission-critical applications running in virtual machines through enhanced, proactive application-level monitoring functionality, including the ability to track an individual application's health monitoring status as well as manage guest services and processes.

General

Deployment

- **Support for Microsoft Windows Server 2019.** All Veeam ONE components can be installed to the Microsoft Windows Server 2019 platform.

Alarms

- **Dedicated view for job and disk-based alarms.** Each disk and job alarm triggers independently.

Veeam product suites designed for every business

Veeam Backup & Replication™ and Veeam ONE are better together. Veeam combines its two marquee solutions to help businesses manage and monitor their entire IT environment, including virtual, physical and cloud-based workloads.

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 enabling Availability for ALL workloads – virtual, physical and cloud – from a single management console.

Veeam Backup Essentials™

delivers the same, enterprise-level functionality as Veeam Availability Suite, but offers a savings of up to 60% for small businesses typically with less than 250 employees and environments no larger than 6 CPU sockets or 30 instances.

- **Enhanced alarms notification engine.** All triggers of specific alarm objects now have unique identifiers that can be used for integration with third-party applications.
- **Enhanced SNMP monitoring.** The Management Information Base (MIB) file now includes descriptions and Veeam SNMP IDs.
- **Alarm Modelling usability enhancements.** You can easily change the scope of objects for modelling as well as choose specific alarms.
- **"Veeam ONE Reporter service state" alarm.** This alarm improves system self-monitoring by notifying users of high Veeam ONE Reporter service loads to ensure workload stability.

Business View categorization

- **Single console for categorization.** Categorization can now be completed and checked from Veeam ONE Monitor. In addition, categorization workflow has been simplified.
- **Simplified categorization workflow.** Categories and groups can now be created and synchronized with virtual infrastructure from a single wizard.
- **Support for multiple cardinality.** Individual objects can now be included in multiple groups within one category.
- **Enhanced synchronization with virtual infrastructures.** Business View categories and groups can be synchronized with VMware vSphere tags and Microsoft Hyper-V custom attributes.
- **Veeam Agents support.** Computers protected with Veeam Agents can be categorized for business needs based on various parameters.
- **Group owner.** An owner can be assigned to each group of categorized objects to receive alarm notifications about the state of its objects.

Reporting

- **New reports layout.** All reports now have a renewed, modern design.
- **Enhanced login capabilities.** Login to Veeam ONE Reporter is now supported in the `UserName@Domain` format.
- **Enhanced report branding.** Now, JPEG, BMP, GIF and TIFF file extensions are allowed. The image size requirement is eliminated.
- **Enhanced dashboard generation time.** Dashboards generation time have been dramatically reduced.

Backup

Monitoring

- **Enhanced Backup Repositories view.** Veeam ONE now provides information about external repositories and capacity tier in scale-out backup repositories.
- **Enhanced Cloud Gateway view.** Veeam ONE now provides information about gateway pools.
- **Enhanced infrastructure objects management.** Hosts and servers can now be added and removed in parallel.

Supported environments

VMware infrastructure*

Platforms

- vSphere 6.x
- vSphere 5.x

Hosts

- ESXi 6.x
- ESXi 5.x
- vSphere Hypervisor (free ESXi)

Software

- vCenter Server 6.x (optional)
- vCenter Server 5.x (optional)
- vCloud Director 8.x, 9.0, 9.1, 9.5

*Only English version of VMware infrastructure is supported

Microsoft infrastructure

Platforms

- Windows Server 2019 (including 1809)
- Windows Server 2016 (including 1709 and 1803)
- Windows Server 2012 R2
- Windows Server 2012
- Windows Server 2008 R2 SP1

Hosts

- Windows Server Hyper-V 2019 (including 1809)
- Windows Server Hyper-V 2016 (including 1709 and 1803)
- Windows Server Hyper-V 2016 (free)
- Windows Server Hyper-V 2012 R2
- Windows Server Hyper-V 2012 R2 (free)
- Windows Server Hyper-V 2012
- Microsoft Hyper-V Server 2012 (free)
- Windows Server Hyper-V 2008 R2 SP1
- Microsoft Hyper-V Server 2008 R2 SP1 (free)

Software

- Microsoft System Center Virtual Machine Manager 2016 (including 1801 and 1807, optional)
- Microsoft System Center Virtual Machine Manager 2012 R2 (optional)
- Microsoft System Center Virtual Machine Manager 2012 SP1 (optional)
- Microsoft System Center Virtual Machine Manager 2008 R2 SP1 (optional)

Backup infrastructure

Platforms

- Veeam Backup & Replication 9.5
- Veeam Backup & Replication 9.0 Update 2

Hosts

- Veeam Backup & Replication server
- Veeam Backup Enterprise Manager (optional)

Alarms

- **New "Restore activity" alarm.** This new alarm notifies users when a restore operation takes place.
- **New "Storage snapshot creation failure" alarm.** This new alarm notifies users when an integrated storage fails to create a storage snapshot initiated by a Veeam backup job.
- **Backup infrastructure diagnostics alarms.** This alarm pack is a part of the Veeam Intelligent Diagnostics feature which allows detecting common misconfigurations and potential issues in the backup infrastructure.

Reporting

- **New "Backup Infrastructure Audit" report.** This report tracks configuration changes in a backup environment, providing a list of events with detailed information about every change for each user.
- **New "Backup Objects Change Tracking" report.** This report provides detailed information on backup infrastructure configuration changes, showing previous and current settings.
- **New "Computer Backup Status" report.** This report provides daily backup status information for all computers protected with Veeam Agents.
- **New "Computers with no Archive Copy" report.** This report highlights agents that lack a secondary backup copy.
- **New "Agent Backup Job and Policy History" report.** This report provides historical information for Veeam Agent backup policies and jobs.
- **Enhanced "Protected Computers" report.** The RPO parameter can now be set in minutes.
- **Enhanced "Backup Custom Infrastructure" report.** Computers protected by Veeam Agents have been added to the report objects list. A geolocation parameter has been added for VMs and backup repositories. Additional VM and job parameters have been added to the report parameters list.
- **Enhanced "Protected VMs" report.** Report details now include a reason why unprotected VMs have no restore points or exceeded RPO. The RPO parameter can now be set in minutes. The job filter and information about independent disks have also been added to the report.
- **Enhanced "Backup Billing" report.** The summary section has been added to the report.
- **Enhanced "Veeam Backup Files Growth" report.** Compression and deduplication ratio data has been added to the report.
- **Enhanced "Configuration Job Change Tracking" report.** User-friendly labels are now used for naming job parameters that are displayed in the report.
- **Enhanced "Recovery Verification Overview" report.** The "Group by" option has been added to report parameters, in addition to the "Business View" scope option.
- **Enhanced "Backup Inventory" report.** New Veeam Backup & Replication object types such as gateway pools, external repositories and scale-out backup repository capacity tier are now supported. Veeam Instance Licensing information is also provided in the report details.
- **Enhanced "Cloud Connect Inventory" report.** New Veeam Backup & Replication object types such as gateway pools, external repositories and scale-out backup repository capacity tier are now supported. Veeam Instance Licensing information is also provided in the report details. Hardware plan storage data has been added to the report.
- **Enhanced "Latest Job Status" report.** Backup date has been added to the drill-down report.
- **Enhanced "Capacity Planning for Backup Repositories" report.** An option to choose analysis depth has been added to the report.
- **Enhanced "Infrastructure Chargeback" reports.** Qatari Rial has been added as the currency option.
- **Enhanced "Tape GFS Configurations" and "Tape GFS Backup Files" report.** Information about daily increments is now provided in the report details.

- **Enhanced "Job History" (Backup Job Historical Information) report.** File Copy Job has been added to the report parameters.
- **Enhanced "Job Configuration Dump" report.** Information about Backup-to-Tape and File-to-Tape jobs has been added to the report.
- **Enhanced "Data Sovereignty Overview" report.** All objects with the defined location are now provided in the report. The option to show/hide backup infrastructure objects has also been added to the report parameters.
- **Enhanced "Latest Job Status" report.** Job type filter, as well as information about Backup-to-Tape and File-to-Tape jobs have been added to the report.
- **Enhanced "Backup Files Growth" report.** The interval option has been added to the report parameters.

Dashboards and widgets

- **New "Repository Free Space" widget heatmap.** This interactive dashboard provides an overview of the free space available in your backup repositories.
- **New "Proxy Usage" widget heatmap.** This interactive dashboard provides an overview of backup proxy servers workloads allowing optimization of job schedules and backup proxy configurations.
- **New "Repository Usage" widget heatmap.** This interactive dashboard provides an overview of backup repository workloads allowing optimization of job schedules and backup repository configuration.
- **Enhanced "Protected VMs Overview" widget.** This widget now highlights the number of unprotected virtual machines a user currently has.

Scalability

- **Enhanced scalability of the Veeam Backup & Replication data collection engine.** Backup data is now retrieved in parallel threads.

VMware vSphere

Reporting

- **Enhanced "Custom Infrastructure" report.** "Network adapter type" has been added to the virtual machine object parameters list. Virtual disk provisioning parameter now considers lazy and eager thick provisioning.
- **Enhanced "VMs Uptime" and "Power off VMs" reports.** Absolute uptime and downtime values have been added to the reports.
- **Enhanced "Datastore Space Usage History" report.** Top datastores containing the most and least free space have been added to the report.
- **Enhanced "Datastore Capacity" report.** The datastore used space in the drill-down report layout has been refreshed.
- **Enhanced "Raw Performance Data" report.** A From/To option has been added to the report parameters.
- **Enhanced "VM Performance", "Host Performance" and "Custom performance" reports.** A period option has been added to the report parameters.

Dashboards and widgets

- **Enhanced "What if Lose 1 Host in a Cluster" widget.** The number of failed hosts for analyses is now available for selection.

Scalability

- **Enhanced scalability of the data collection engine.** vSphere data is now retrieved in parallel threads.

Microsoft Hyper-V

Monitoring

- **Microsoft Hyper-V 2019 Support.** Veeam ONE now fully supports Microsoft Hyper-V 2019.

Alarms

- **VM power status alarm.** This new alarm indicates if a VM is active and functional.

Reporting

- **New "Host Uptime" report.** This report provides an overview of host uptime including lists of the hosts with the lowest and highest uptime values.
- **Enhanced "VMs Uptime" report.** Downtime, restarts and alarm numbers have been added to the report details. In addition, users can generate a drill-down report including details on alarms and restarts.
- **Enhanced "Raw Performance Data" report.** A From/To option has been added to the report parameters.
- **Enhanced "VM Performance", "Host Performance" and "Custom performance" reports.** A period option has been added to the report parameters.

Scalability

- **Enhanced Hyper-V data collection.** Hyper-V data is now collected faster and more stable.

Other

- **Manual data retention application.** Now, data retention can be applied manually to purge SQL data.

Veeam ONE 9.5 Update 3: What's new?

Veeam ONE 9.5 Update 3 included a number of important enhancements and bug fixes. The following is a list of the most significant enhancements:

General

- **Veeam Agents backup monitoring and reporting.** Veeam ONE now includes monitoring and reporting for Veeam Agent for Microsoft Windows and Veeam Agent for Linux.
- **Location tag support.** Veeam ONE pre-defined reports and Monitor UI now support location tags for VMs, hosts, and computers configured in Veeam Backup & Replication to observe data sovereignty.
- **Microsoft SQL Server 2017 support.** Veeam ONE now fully supports Microsoft SQL Server 2017.
- **Microsoft Windows Server 2016 Version 1709 support.** Veeam ONE now fully supports Microsoft Windows Server 2016, version 1709

Monitoring

- **Veeam Agent jobs monitoring.** Veeam ONE now monitors Veeam Agent backup jobs configured in Veeam Backup & Replication servers.
- **Veeam Agent policies monitoring.** Veeam ONE now monitors Veeam Agent backup jobs configured in Veeam Backup & Replication servers.

- **Enhanced Veeam backup data collection.** With Update 3, users will experience faster data collection from Veeam Backup & Replication servers, especially in large-scale deployments.
- **Enhanced Hyper-V data collection.** With Update 3, users will experience more stable data collection from Microsoft Hyper-V, especially in large-scale deployments.
- **Veeam ONE server load alarm.** This alarm notifies users of high Veeam ONE server load to ensure workload stability.
- **New VM metrics.** Veeam ONE now includes "VM Used Space per Datastore" and "VM Provisioned Space per Datastore" counters to identify how much space a VM and its corresponding files take up on the datastore.
- **Performance cache path setting.** Veeam ONE now permits users to change the performance cache location in the Monitor Client UI.

Reporting

- **Protected computers report.** This report lists all protected and unprotected computers running a Veeam Agent.
- **Data sovereignty overview.** This report lists all protected objects, backups and replicas grouped by a location tag.
- **Data sovereignty violations.** This report shows potential data sovereignty violations for all protected objects.
- **Location-based reporting.** Veeam ONE now provides an option to generate reports based on the location tags configured in Veeam Backup & Replication.
- **Enhanced backup custom infrastructure report.** "Last Run Duration (sec)" has been added to the report parameters list.

Veeam Cloud & Service Providers

- **Veeam Cloud Connect inventory report enhancement.** This report now displays per-VM license key usage.
- **Enhanced vCloud Director integration.** Veeam ONE now caches user credentials to allow faster log-ins to the Monitor client.
- **Tenant credentials caching.** This feature saves permissions check time over infrastructure each time a tenant logs in.

Veeam ONE 9.5 Update 1: What's new?

Veeam ONE 9.5 Update 1 included a number of important enhancements and bug fixes including the following:

General

- **VMware vSphere 6.5 support.** Veeam ONE now allows reporting and monitoring on vSphere 6.5 hosts and vCenter Server.
- **Asian locales support.** Veeam ONE console now supports installation on operating systems with Asian locales. Update 1 has been tested on all most common Asian locales by Veeam QC and validated by local Veeam teams of the corresponding locations.

Monitoring

- **Memory demand for Hyper-V 2016 VMs.** Veeam ONE now shows memory demand for VMs configured with static memory.

Reporting

- **Enhanced backup custom infrastructure report.** More Veeam backup object properties have been added to the report parameters list.

- **Enhanced VM backup status report.** This report now allows filtering VMs based on the backup copy jobs.

Read more about the enhancements added to Veeam ONE 9.5 Update 1 in the following [knowledge base article](#).

Veeam ONE 9.5 What's new: General functionality

Deployment

- **Support for Windows Server 2016:** All Veeam ONE components can be installed to a Windows Server 2016 platform.
- **Support for SQL Server AlwaysOn:** A Veeam ONE database can now be deployed to an AlwaysOn Availability Group.
- **Website HTTP connection:** By default, Veeam ONE websites are now using HTTP connections for all new installations.

Data collection engine

- **Backup data collection mode:** In this mode, Veeam ONE collects Veeam Backup & Replication™ data only and skips virtual infrastructure performance data. This allows you to improve scalability of your Veeam ONE server.
- **Enhanced advanced scalability mode:** This mode collects performance metrics that are used in predefined alarms and reports. This allows users to improve scalability of their Veeam ONE server.
- **Granular performance metrics selection:** The enhanced data collection engine now allows users to select individual performance metrics for each monitored object type (e.g. VMs, hosts, datastores), to improve Veeam ONE server scalability.

Dashboards and widgets

- **Enhanced dashboard sharing engine:** The enhanced dashboard sharing engine makes it possible to grant other Windows users access to specific dashboards without providing complete access to them all.

Alarms

- **Ransomware detection alarm:** This new alarm notifies users if monitored VMs are experiencing abnormal CPU usage and high write rates on the datastore due to potential ransomware activity.
- **Disk cache alarm:** This internal alarm enables users to track failures during a write operation of performance data to the disk folder.
- **Custom alarm builder:** Now, predefined and custom alarms can be used as triggers for another custom alarm allowing advanced issue detection logic.
- **Enhanced alarms suppression logic:** A new engine allows suppressing latency alarms for all VMs located together on the same datastore with a backed up VM.
- **Alarms suppression options:** Now, users can suppress alarms based on the time period and backup tasks. Previously, it was only possible to select one option.
- **Enhanced alarms creation logic:** Changing alarm settings is now more user-friendly, helping protect against accidental loss of unsaved settings.
- **Enhanced alarms modelling engine:** The alarms modelling engine now allows the selection of a particular object in its scope, taking into account alarms with multiple rules specified, while honoring alarm suppression settings.
- **Enhanced alarms assignment engine:** When imported from another Veeam ONE server, alarms can now be assigned to virtual and backup infrastructure objects with one click.
- **Enhanced VMs alarms assignment logic:** Now, all VM alarms can be assigned to a datastore and host objects. Previously, users had to select VM objects only.

- **Support for alarm definitions configured in previous versions of Veeam ONE:** Now, alarm definitions created in v8 can be imported into later versions of Veeam ONE. This option can be used if alarm definitions need to be migrated from one installation to another.

Monitoring

- **Enhanced VMs overview tab:** This tab now includes information about consumed space by VM virtual disks for each datastore object.
- **Granular per-VM monitoring option:** Veeam ONE 9.5 enables users to select specific VMs for monitoring.
- **Enhanced performance issues detection:** Now, performance alarms only trigger when a performance metric remains consistently above the threshold for a specific period of time. Previously, alarms were raised based on the average usage over a specified time period.
- **Enhanced network connection drops handling:** Short network connection drops no longer impact the data collection job progress.

Reporting

- **VM configuration chargeback report:** This report creates a VM audit and identifies the most and least expensive VMs based on the current configuration.
- **VM performance chargeback report:** This report creates a VM audit and identifies the most and least expensive VMs based on CPU and memory performance metrics usage.
- **Host configuration chargeback report:** This report creates an infrastructure cost audit and identifies the most and least expensive VMs based on the hardware's price and current VM configurations.
- **Host resource usage chargeback report:** This report creates a VM audit from the available host resources (CPU and memory) and identifies the most and least expensive VMs based on the host configuration.
- **Enhanced report generation time:** Report generation times have been dramatically reduced with Veeam ONE 9.5.

Business View categorization

- **Native support for vSphere tags:** Veeam ONE's Business View component has been completely reconfigured to use vSphere tags instead of custom attributes.
- **Increased the number of supported categories:** The number of categories users can create has been increased to 50.

Deployment projects

- **Enhanced deployment projects engine:** When modelling a disaster recovery (DR) situation or performing capacity planning, VM scope is no longer restricted to only one site. You can now select VMs for the report using the entire infrastructure scope.

Other

- **Per-VM license usage report:** Now, service providers have the ability to generate license usage reports using a built-in reporting engine.
- **Updated Veeam ONE Monitor Client UI:** The Veeam ONE user interface has been refreshed with new icons and styles to be more NOC-friendly.
- **Improved Veeam ONE Monitor Client UI response time:** The user interface is now updated on an incremental basis for every navigation pane.
- **Veeam ONE Monitor Client process name change:** The Veeam ONE Monitor Client process has been renamed to avoid conflicts during an upgrade including existing applications sharing the same name.

- **Veeam ONE Monitor Client auto login option:** Now, users can start the Veeam ONE Monitor Client with auto login parameters (recommended for NOC views).
- **Enhanced websites log in process:** Veeam ONE Reporter and Veeam ONE Business View can now re-use logged-in Windows user credentials when accessing the UI.
- **Enhanced retention policy options:** With 9.5, retention policy has a separate setting for performance data, events and Veeam backup data.
- **Enhanced search control behavior:** With 9.5, search control immediately filters out objects and preserves a search filter when switching between virtual infrastructure and Business View tree objects.
- **Enhanced UI usability:** The Veeam ONE Monitor Client now displays a progress bar for all operations and tasks executed by a user.
- **Enhanced Veeam ONE support utility:** Now, you can select individual performance metrics for monitoring. This option is best used when maximum flexibility and increased scalability is required.
- **Veeam ONE database maintenance task:** Veeam ONE 9.5 includes a built-in database maintenance task.
- **Enhanced usability for Veeam ONE Monitor Client summary views:** Now, items included in a pie chart's legend can be used for alarm filtering.

What's new: Backup

Dashboards and widgets

- **Enhanced Veeam Backup & Replication widget pack:** All widgets can now be configured based on a "last seven days" reporting interval.

Alarms

- **Enhanced VM with no backups alarm:** This alarm now includes enhanced support for Business View groups, eliminating false positive detection when a VM is migrated from one group to another.
- **Backup copy job data transfer window alarm:** This alarm allows tracking when a backup copy job exceeds the configured data transfer window.

Reporting

- **Backup infrastructure custom data report:** This report allows you to build a Veeam backup report with custom parameters, filters, objects and properties. This report is ideally used if maximum flexibility is required.
- **Tape GFS backup files report:** This report provides information about historical backups stored on GFS tape media pools.
- **Enhanced backup alarms current state overview report:** Now, users can select new parameters for filtering alarms by type.
- **Enhanced restore operator activity report:** New time intervals (e.g., the last day, week or month) are now available for selection.
- **Enhanced VM backup status report:** This report now provides users the ability to select backup copy jobs in the reporting scope and the ability to select the last seven days as a reporting time period.
- **Enhanced backup job historical information report:** The drill down report now includes backup transport mode for each processed VM.
- **Enhanced backup inventory report:** This report now includes the Veeam Backup & Replication license type (e.g., rentals and subscriptions).
- **Enhanced Veeam backup files growth report:** This report now includes compression, deduplication ratios for every backup file created, allowing you to analyze backed up data types over the entire backup file chain.

- **Enhanced SureBackup® jobs overview report:** Job duration time is now available for every SureBackup job displayed in the report.

Other

- **Veeam Backup & Replication pack structure update:** This pack has been split into separate sub-packs for better usability and report search.
- **Enhanced Veeam Backup & Replication detection engine:** If the Veeam ONE console already has a registered Veeam Backup & Replication server managed by a Veeam Backup Enterprise Manager and users attempt to add the Veeam Backup Enterprise Manager to the backup console, Veeam ONE will automatically place the registered backup server under the Veeam Backup Enterprise Manager node. This helps avoid duplications and misconfigurations in Veeam backup reports.

What's new: Veeam Cloud Connect

Monitoring

- **Enhanced top tenants view:** This view now displays the tenants using Veeam Cloud Connect replication jobs.

Alarms

- **VM backups in cloud repository alarm:** This alarm allows service providers to track the number of VM backups stored in the cloud repository.

Reporting

- **Veeam Cloud Connect user (replica) report:** This report provides data about a Veeam Cloud Connect user's replication activity and quota usage over the last period.
- **Enhanced Veeam Cloud Connect user (backup) report:** This report includes a new layout and new parameters (data transferred) added for reporting.
- **Enhanced Cloud Connect inventory report:** This report now includes new license types for a Veeam Backup & Replication server.
- **Tenants backup compatibility report.** This report shows product versions of all the tenants' backup servers to avoid incompatibilities.

What's new: Microsoft Hyper-V

Monitoring

- **Guest disks monitoring:** Veeam ONE is now able to query data about in-guest volumes capacity and free space. This data is displayed on the summary tab for each VM.
- **Tracking Veeam backup activity:** Now, all alarms can be suppressed during Veeam Backup & Replication activity.
- **Ability to monitor shielded VMs and guarded Hyper-V hosts:** Veeam ONE is now able to monitor performance metrics for VMs protected with BitLocker.

Alarms

- **Guest disks alarm:** This new alarm notifies users when guest disks run out of free space or breach the predefined threshold.
- **Enhanced current memory pressure alarm:** This alarm is updated with new "best practice" defaults and allows more flexibility in setting the thresholds.
- **Enhanced host average memory pressure alarm:** This alarm is updated with new "best practice" defaults and allows more flexibility in setting the thresholds.

- **VM shutdown by host alarm:** This alarm is triggered when a VM is shut down by a Hyper-V host. Users can start using the alarm by enabling it in the Veeam ONE Monitor Client.
- **VM shutdown by guest alarm:** This alarm is triggered when a VM is shut down by a guest operating system. Users can start using the alarm by enabling it in the Veeam ONE Monitor Client.

Reporting

- **Guest disk free space report:** This report analyzes VM guest disks and displays their capacity, the amount of guest disk free space, disk space usage trends, and predicts the number of days remaining for a disk to reach the specified threshold.
- **Alarms current state overview report:** This report evaluates the health state of the infrastructure and helps users simplify troubleshooting.
- **Enhanced oversized VMs report:** Added actual memory usage of VMs with static memory configuration (Hyper-V 2016 only). It should help to better measure wasted resources and give more precise recommendations.

Dashboards and widgets

- **Enhanced Hyper-V infrastructure dashboard:** A wasted resources widget has been added to the dashboard.

What's new: VMware vSphere

Reporting

- **Enhanced alarms current state overview report:** Veeam ONE 9.5 now includes a summary section as well new parameters to filter alarms by type.
- **Enhanced garbage files report:** Added the number of garbage files for each datastore displayed in the report.
- **Enhanced guest disk free space report:** Added both relative and absolute values for disk space usage in the drill down report.
- **Enhanced VMware Infrastructure overview report:** Added host allocations data (CPU, Memory, Storage) to the details of the report.

vCloud Director

- **Support for multiple vCloud Director servers:** Now, Veeam ONE can monitor multiple vCloud Director infrastructures using the same vCenter Server.



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