



Veeam Backup & Replication

Version 13

Permissions for VMware vSphere

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Customer Support

Should you have a technical concern, suggestion or question, visit the [Veeam Customer Support Portal](#) to open a case, search our knowledge base, reference documentation, manage your license or obtain the latest product release.

Company Contacts

For the most up-to-date information about company contacts and office locations, visit the [Veeam Contacts Webpage](#).

Online Support

If you have any questions about Veeam products, you can use the following resources:

- Full documentation set: veeam.com/documentation-guides-datasheets.html
- Veeam R&D Forums: forums.veeam.com

About This Document

This document provides information about accounts and permissions required for Veeam Backup & Replication installation and operation, and also about granular vCenter Server permissions required for the certain Veeam Backup & Replication operations in VMware vSphere environment.

Installation and Operation

Installing and Using Veeam Backup & Replication

The account used to install Veeam Backup & Replication from .ISO and to use Veeam Backup & Replication must have permissions described in the [Installing and Using Veeam Backup & Replication](#) section in the Veeam Backup & Replication User Guide.

The permissions required to install Veeam Backup & Replication from .OVA are listed in the table.

Privilege Level		Required Permissions
Datastore		Allocate space
Network		Assign network
VM storage policies		Update VM storage policies View VM storage policies
vApp		Import
Virtual Machine	Change Configuration	Add new disk Add or remove device Advanced configuration Change Memory Change Settings Modify device settings
	Edit Inventory	Create new
	Interaction	Console interaction Power on Power off

Using Virtualization Servers and Hosts

The accounts used for work with virtualization servers and hosts during data protection tasks must have permissions described in the [Using Virtualization Servers and Hosts](#) section in the User Guide for VMware vSphere.

In case of the vCenter Server, you can provide granular permissions. The required granular permissions depend on the operations that you are planning to carry out. For the possible operations, see other sections in this guide. For example, permissions required for backup operations are described in the [Backup](#) section.

Using Enterprise Manager

For information on permissions required for Enterprise Manager operation, see the [Required Permissions](#) section in the Enterprise Manager User Guide.

Using Veeam Explorers

For information on accounts used for Veeam Explorer operations and the required permissions, see the dedicated sections in the [Veeam Explorers User Guide](#).

Cumulative Permissions

This section lists cumulative vCenter permissions required for Veeam Backup & Replication operations.

NOTE

The permissions to create and edit tag categories can only be granted at the root level.

Privilege Level	Cumulative Permissions
Cryptographic operations¹	Add disk Direct Access Encrypt Encrypt new Migrate Register VM
dvPort Group	Create Delete Modify
Datastore	Allocate space Browse datastore Configure datastore Low-level file operations Remove file
Datastore cluster	Configure a datastore cluster
Extension	Register extension Unregister extension
Folder	Create folder Delete folder
Global	Diagnostics ² Disable methods Enable methods Licenses Log event Manage custom attributes Set custom attribute Settings

Privilege Level		Cumulative Permissions
Host	Configuration	Advanced settings Maintenance Network configuration Query patch Storage partition configuration
Network		Assign network Configure
Profile-driven storage (for VMware vSphere prior to 8.x)		Profile-driven storage update Profile-driven storage view
VM storage policies (for VMware starting from 8.x)		Apply VM storage policies Update VM storage policies View VM storage policies
Resource		Assign virtual machine to resource pool Create resource pool Migrate powered off virtual machine Migrate powered on virtual machine Remove resource pool
Sessions		privilege.StorageProfile.ViewPermissions.label
vApp		Add virtual machine Assign resource pool Unregister
Virtual Machine	Change Configuration	Acquire disk lease Add existing disk Add new disk Add or remove device Advanced configuration Change settings Change resource Configure RAW device ³ Extend virtual disk Modify device settings Remove disk Rename Set annotation Toggle disk change tracking

Privilege Level		Cumulative Permissions
	Edit Inventory	Create Move Register Remove Unregister
	Guest operations	Guest operation modifications Guest operation program execution Guest operation queries
	Interaction	Configure CD media Configure floppy media Console interaction Connect devices Guest operating system management by VIX API Power Off Power On Suspend
	Provisioning	Allow disk access Allow read-only disk access Allow virtual machine download Allow virtual machine files upload Mark as template ⁴ Mark as virtual machine ⁴
	Snapshot Management	Create snapshot Remove snapshot Rename snapshot Revert to snapshot
vSphere Tagging		Assign or Unassign vSphere Tag Assign or Unassign vSphere Tag on Object

¹ required if encryption policies are used

² required if continuous data protection is configured

³ required if machines have Virtual Compatibility RDM disks and Virtual appliance mode is used for a backup proxy

⁴ required for template restore

Backup

Below are vCenter Server granular permissions required for backup:

Privilege Level		Required Permissions		
		Direct SAN Access Mode	Virtual Appliance Mode	Network Mode
Cryptographic operations		Direct Access	Direct Access	Direct Access
Datastore		Low-level file operations	Low-level file operations	Low-level file operations
Datastore cluster		Configure a datastore cluster	Configure a datastore cluster	Configure a datastore cluster
Global		Disable methods Enable methods Licenses Log event Manage custom attributes Set custom attribute	Disable methods Enable methods Licenses Log event Manage custom attributes Set custom attribute	Disable methods Enable methods Licenses Log event Manage custom attributes Set custom attribute
Virtual Machine	Change Configuration	Acquire disk lease Advanced configuration Set Annotation Toggle disk change tracking	Acquire disk lease Add existing disk Add or remove device Advanced configuration Configure RAW device (if machines have Virtual Compatibility RDM disks) Remove disk Set annotation Toggle disk change tracking	Acquire disk lease Advanced configuration Set annotation Toggle disk change tracking
	Guest operations	Guest operation modifications Guest operation program execution Guest operation queries	Guest operation modifications Guest operation program execution Guest operation queries	Guest operation modifications Guest operation program execution Guest operation queries
	Interaction	Guest operating system management by VIX API	Guest operating system management by VIX API	Guest operating system management by VIX API

Privilege Level		Required Permissions		
		Direct SAN Access Mode	Virtual Appliance Mode	Network Mode
	Provisioning	Allow read-only disk access Allow virtual machine download	Allow read-only disk access Allow virtual machine download	Allow read-only disk access Allow virtual machine download
	Snapshot Management	Create snapshot Remove snapshot	Create snapshot Remove snapshot	Create snapshot Remove snapshot

Replication

Below are vCenter Server granular permissions required for replication:

Privilege Level	Required Permissions		
	Direct SAN Access Mode	Virtual Appliance Mode	Network Mode
Cryptographic operations	Direct Access	Direct Access	Direct Access
Datastore	Allocate space Browse datastore Configure datastore Low-level file operations Remove file	Allocate space Browse datastore Configure datastore Low-level file operations Remove file	Allocate space Browse datastore Configure datastore Low-level file operations Remove file
Datastore cluster	Configure a datastore cluster	Configure a datastore cluster	Configure a datastore cluster
Global	Disable methods Enable methods Licenses Log event Manage custom attributes Set custom attribute	Disable methods Enable methods Licenses Log event Manage custom attributes Set custom attribute	Disable methods Enable methods Licenses Log event Manage custom attributes Set custom attribute
Network	Assign network	Assign network	Assign network
Profile-driven storage (for VMware vSphere prior to 8.x)	Profile-driven storage update Profile-driven storage view	Profile-driven storage update Profile-driven storage view	Profile-driven storage update Profile-driven storage view
VM storage policies (for VMware starting from 8.x)	Update VM storage policies View VM storage policies	Update VM storage policies View VM storage policies	Update VM storage policies View VM storage policies
Resource	Assign virtual machine to resource pool	Assign virtual machine to resource pool	Assign virtual machine to resource pool

Privilege Level		Required Permissions		
		Direct SAN Access Mode	Virtual Appliance Mode	Network Mode
vApp		Add virtual machine Assign resource pool Unregister	Add virtual machine Assign resource pool Unregister	Add virtual machine Assign resource pool Unregister
Virtual Machine	Change Configuration	Acquire disk lease Add new disk Advanced configuration Change Settings Extend virtual disk Modify device settings Toggle disk change tracking	Acquire disk lease Add existing disk Add new disk Advanced configuration Change Settings Change resource Extend virtual disk Modify device settings Remove disk Toggle disk change tracking	Acquire disk lease Add new disk Advanced configuration Change Settings Extend virtual disk Modify device settings Toggle disk change tracking
	Edit Inventory	Create new Register Remove	Create new Register Remove	Create new Register Remove
	Guest operations	Guest operation modifications Guest operation program execution Guest operation queries	Guest operation modifications Guest operation program execution Guest operation queries	Guest operation modifications Guest operation program execution Guest operation queries
	Interaction	Connect devices Guest operating system management by VIX API	Connect devices Guest operating system management by VIX API	Connect devices Guest operating system management by VIX API
	Provisioning	Allow disk access Allow read-only disk access Allow virtual machine download	Allow disk access Allow read-only disk access Allow virtual machine download	Allow disk access Allow read-only disk access Allow virtual machine download
	Snapshot Management	Create snapshot Remove snapshot Rename snapshot Revert to snapshot	Create snapshot Remove snapshot Rename snapshot Revert to snapshot	Create snapshot Remove snapshot Rename snapshot Revert to snapshot

Replica Failover

Below are vCenter Server granular permissions required for replica failover:

Privilege Level		Required Permissions
Datastore		Browse datastore Low-level file operations Remove file
Global		Log event
Virtual Machine	Change Configuration	Advanced Configuration Rename
	Interaction	Power Off Power On
	Snapshot Management	Create snapshot Remove snapshot Revert to snapshot

Replica Failback

Below are vCenter Server granular permissions required for replica failback:

Privilege Level		Required Permissions
Datastore		Allocate space Browse datastore Low-level file operations Remove file
Global		Disable methods Enable methods Licenses Log event
Profile-driven storage (for VMware vSphere prior to 8.x)		Profile-driven storage update Profile-driven storage view
VM storage policies (for VMware starting from 8.x)		Update VM storage policies View VM storage policies
Resource		Assign virtual machine to resource pool
Virtual Machine	Change Configuration	Acquire disk lease Add existing disk Add new disk Advanced configuration Remove disk Rename Toggle disk change tracking
	Edit Inventory	Register
	Interaction	Power Off Power On
	Provisioning	Allow disk access Allow read-only disk access Allow virtual machine download
	Snapshot Management	Create snapshot Remove snapshot Revert to snapshot

Privilege Level	Required Permissions
vSphere Tagging	Assign or Unassign vSphere Tag

Continuous Data Protection (CDP)

Below are vCenter Server granular permissions required for continuous data protection (CDP):

Privilege Level		Required Permissions
Datastore		Allocate space Browse datastore Configure datastore Low-level file operations Remove file
Datastore cluster		Configure a datastore cluster
Global		Diagnostics Disable methods Enable methods Licenses Log event Manage custom attributes Set custom attribute
Host	Configuration	Advanced settings Maintenance Query patch
Network		Assign network
Profile-driven storage (for VMware vSphere prior to 8.x)		Profile-driven storage update Profile-driven storage view
VM storage policies (for VMware starting from 8.x)		Apply VM storage policies Update VM storage policies View VM storage policies
Resource		Assign virtual machine to resource pool
Sessions		privilege.StorageProfile.ViewPermissions.label
vApp		Add virtual machine Assign resource pool Unregister

Privilege Level		Required Permissions
Virtual Machine	Change Configuration	Acquire disk lease Add existing disk Add new disk Advanced configuration Change settings Extend virtual disk Modify device settings Remove disk Toggle disk change tracking
	Edit Inventory	Register Remove
	Guest operations	Guest operation modifications Guest operation program execution Guest operation queries
	Interaction	Connect devices Guest operating system management by VIX API
	Provisioning	Allow disk access Allow read-only disk access Allow virtual machine download
	Snapshot Management	Create snapshot Remove snapshot Rename snapshot Revert to snapshot

CDP Failover

Granular permissions required for CDP failover are the same as for replica failover. For more information, see [Replica Failover](#).

CDP Failback

Below are vCenter Server granular permissions required for CDP failback:

Privilege Level		Required Permissions
Datastore		Allocate space Browse datastore Low-level file operations Remove file
Global		Disable methods Enable methods Licenses Log event
Profile-driven storage (for VMware vSphere prior to 8.x)		Profile-driven storage update Profile-driven storage view
VM storage policies (for VMware starting from 8.x)		Update VM storage policies View VM storage policies
Resource		Assign virtual machine to resource pool
Virtual Machine	Change Configuration	Acquire disk lease Add existing disk Add new disk Advanced configuration Change Settings Remove disk Rename Toggle disk change tracking
	Edit Inventory	Register
	Interaction	Power Off Power On
	Provisioning	Allow disk access Allow read-only disk access Allow virtual machine download
	Snapshot Management	Create snapshot Remove snapshot Revert to snapshot

Privilege Level	Required Permissions
vSphere Tagging	Assign or Unassign vSphere Tag

Instant VM Recovery

Below are vCenter Server granular permissions required for Instant VM Recovery:

Privilege Level		Required Permissions
Cryptographic operations		Direct access*
Datastore		Browse datastore Low-level file operations Remove file
Global		Log event
Host	Configuration	Storage partition configuration
Network		Assign network Configure
Resource		Assign virtual machine to resource pool
vApp		Add virtual machine Assign resource pool Unregister
Virtual Machine	Change Configuration	Add or remove device Change settings Modify device settings Toggle disk change tracking
	Edit Inventory	Register Unregister
	Interaction	Configure CD media Configure floppy media Connect devices Console interaction Power Off Power On
	Provisioning	Allow disk access
	Snapshot Management	Create snapshot Remove snapshot

* - required if a KMS server is added to vCenter Server added to your backup infrastructure.

Quick Migration

Below are vCenter Server granular permissions required for Quick Migration:

Privilege Level		Required Permissions
Datastore		Allocate space Browse datastore Low-level file operations Remove file
Global		Disable methods Enable methods Licenses Log event Settings
Network		Assign network
Resource		Assign virtual machine to resource pool Migrate powered off virtual machine Migrate powered on virtual machine
vApp		Add virtual machine Assign resource pool
Virtual Machine	Change Configuration	Add existing disk Add new disk Advanced configuration Change resource Remove disk Rename
	Edit Inventory	Move Register Remove Unregister
	Interaction	Connect devices Power Off Power On Suspend
	Provisioning	Allow disk access Allow read-only disk access Allow virtual machine download

Privilege Level		Required Permissions
	Snapshot Management	Create snapshot Remove snapshot Revert to snapshot

SureBackup

Below are vCenter Server granular permissions required for SureBackup:

Privilege Level		Required Permissions
Cryptographic operations¹		Register VM
dvPort Group		Create Delete
Datastore		Browse datastore Low-level file operations Remove file Configure datastore (if you restore to vSAN datastore)
Folder		Create folder Delete folder
Global		Licenses Log event
Host	Configuration	Network configuration Storage partition configuration
Network		Assign network
Resource		Assign virtual machine to resource pool Create resource pool Remove resource pool
Virtual Machine	Change Configuration	Add or remove device Advanced configuration Modify device settings* Toggle disk change tracking* * For virtual labs with VMware Distributed vSwitch (DVS).
	Edit Inventory	Register Remove Unregister
	Interaction	Power Off Power On

Privilege Level		Required Permissions
	Provisioning	Allow disk access
	Snapshot Management	Create snapshot Remove snapshot

¹ required if encryption policies are used

Entire VM Restore

Below are vCenter Server granular permissions required for entire VM restore:

Privilege Level	Required Permissions		
	Direct SAN Access Mode	Virtual Appliance Mode	Network Mode
Cryptographic operations	Direct Access	Direct Access	Direct Access
dvPort Group	Create Delete	Create Delete	Create Delete
Datastore	Allocate space Browse datastore Low-level file operations Remove file	Allocate space Browse datastore Configure datastore (if you restore to vSAN datastore) Low-level file operations Remove file	Allocate space Browse datastore Configure datastore (if you restore to vSAN datastore) Low-level file operations Remove file
Folder	Create folder	Create folder	Create folder
Global	Disable methods Enable methods Licenses Log event	Disable methods Enable methods Licenses Log event	Disable methods Enable methods Licenses Log event
Network	Assign network Configure	Assign network Configure	Assign network Configure
Profile-driven storage (for VMware vSphere prior to 8.x)	Profile-driven storage update Profile-driven storage view	Profile-driven storage update Profile-driven storage view	Profile-driven storage update Profile-driven storage view
VM storage policies (for VMware starting from 8.x)	Update VM storage policies View VM storage policies	Update VM storage policies View VM storage policies	Update VM storage policies View VM storage policies
Resource	Assign virtual machine to resource pool	Assign virtual machine to resource pool	Assign virtual machine to resource pool

Privilege Level		Required Permissions		
		Direct SAN Access Mode	Virtual Appliance Mode	Network Mode
vApp		Add virtual machine Assign resource pool Unregister	Add virtual machine Assign resource pool Unregister	Add virtual machine Assign resource pool Unregister
Virtual Machine	Change Configuration	Acquire disk lease Add existing disk Add new disk Advanced configuration Change Settings Modify device settings Remove disk Toggle disk change tracking	Add existing disk Add new disk Advanced configuration Change Settings Modify device settings Remove disk Toggle disk change tracking	Add existing disk Add new disk Advanced configuration Change Settings Modify device settings Remove disk Toggle disk change tracking
	Edit Inventory	Register Remove	Create Register Remove	Create Register Remove
	Interaction	Connect devices Power Off Power On	Connect devices Power Off Power On	Connect devices Power Off Power On
	Provisioning	Allow disk access Allow read-only disk access Allow virtual machine download Allow virtual machine files upload Mark as template* Mark as virtual machine*	Allow disk access Allow read-only disk access Allow virtual machine download Allow virtual machine files upload Mark as template* Mark as virtual machine*	Allow disk access Allow read-only disk access Allow virtual machine download Allow virtual machine files upload Mark as template* Mark as virtual machine*
	Snapshot Management	Create snapshot Remove snapshot Revert to snapshot	Create snapshot Remove snapshot Revert to snapshot	Create snapshot Remove snapshot Revert to snapshot
vSphere Tagging		Assign or Unassign vSphere Tag Assign or Unassign vSphere Tag on Object	Assign or Unassign vSphere Tag Assign or Unassign vSphere Tag on Object	Assign or Unassign vSphere Tag Assign or Unassign vSphere Tag on Object

* required for template restore

File-level Restore

File-level Restore (Windows)

Below are vCenter Server granular permissions required for file-level restore of a Windows VM:

Privilege Level		Required Permissions
Virtual Machine	Guest operations	Guest operation modifications Guest operation program execution Guest operation queries

File-level Restore (Other guest)

Below are vCenter Server granular permissions required for file-level restore of a non-Windows VM:

Privilege Level		Required Permissions
Datastore		Browse datastore Low-level file operations
Global		Log event
Host	Configuration	Storage partition configuration
Network		Assign network Configure
Resource		Assign virtual machine to resource pool
Virtual Machine	Change Configuration	Modify device settings Change Settings
	Edit Inventory	Register Unregister
	Interaction	Power Off Power On

vSphere Web Client Plug-in for Veeam Backup & Replication

Below are vCenter Server granular permissions required for installation and uninstallation of vSphere Web Client plug-in for Veeam Backup & Replication:

Privilege Level	Required Permissions
Extension	Register extension Unregister extension