Dell EMC vCloud Director Data Protection Extension

Version 19.2

Release Notes

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REV 01
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These release notes contain supplemental information about vCloud Director Data Protection Extension. Topics include:

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Revision history

The following table presents the revision history of this document.

Table 1 Revision history

Revision	Date	Description
01	November 15, 2019	First release of vCloud Director Data Protection Extension 19.2

Supported browsers

vCloud Director Data Protection Extension (vCD DPE) has been tested by using the following web browsers:

- Google Chrome
- Mozilla Firefox
- Microsoft Windows Internet Explorer version 11
- Safari version 6 and later on Macintosh OS
  Note: The **vCloud Director Tenant Portal UI** does not support the Safari browser.

Supported upgrades

vCloud Director Data Protection Extension supports the following upgrades of the product software:

- Upgrade from version 18.2 to 19.2
- Upgrade from version 19.1 to 19.2

Upgrades from other versions of vCloud Director Data Protection Extension are not supported.

Compatibility information

The vCD DPE solution is compatible with the following software and versions.

Table 2 vCloud Director compatibility matrix

Software	Versions
VMware vCloud Director	10.0, 9.7, 9.5
Avamar	19.2, 19.1, 18.2
vCenter server	6.7, 6.5, 6.0

New features and enhancements

The vCloud Director Data Protection Extension (vCD DPE) release 19.2 adds the following new capabilities.

File level restore functionality in the vCloud Tenant Portal UI

In previous releases, file level restore was only available in the REST API or the **Dell EMC Cloud Data Protection Restore Client**. Starting in release 19.2, the **vCloud Director Tenant Portal** UI's **File Level Restore** wizard enables you to restore specific files and folders that are contained within a vApp backup from a source VM to a destination VM. You can restore files and folders either to the original machine or to a different machine.

Also, three types of vCloud users can perform file level restore in the UI:

- An Organization Administrator, who can browse VMs and vApps within their organization, mounts the backup to select source files and folders for restore, browse any destination VM within the organization, and then connect to that VM to perform the restore.
- A System Administrator, who can perform the same tasks as an Organization Administrator, with the additional privilege of being able to browse and restore to destination VMs across different organizations.
- A nonadministrator user (vApp owner), who can browse and restore from restricted targets within the vCloud resources they have access to.

Note: The restore must be performed from a Windows backup to a Windows machine or from a Linux backup to a Linux machine.

New File Level Restore Wizard on vCloud Director Tenant Portal

The new File Level Restore (FLR) Wizard serves with the following functionalities that are provided by existing dedicated FLR UI application:

- FLR Wizard can be brought up by action menu on listed backups of vApps and Standalone VMs.
- FLR Wizard allows user to browse and select files and folders from source VM in a backup.
- FLR Wizard allows user to restore selected files and folders to the original or a different VM.
- FLR restoration process can be monitored from Tasks page.

New Dashboard Page for vApp Owners on vCloud Director Tenant Portal

The new Dashboard Page for vApp Owners (nonadmin users) allows users without administrator privileges to access vCD DPE on Tenant Portal and perform FLR operations.

Operating system upgrade to SLES12SP4

The operating system is now sles12sp4, the openssl version is 1.0.2 which supports TLS1.0, TLS1.1 and TLS1.2. The jre version upgrade to 8u221 which support more secure and complex ssl_ciphers.

Localization

The vCD DPE provides internationalized user interfaces with following languages:

Table 3 Supported languages by vCD DPE user interfaces

UI Component	Supported Languages
vCD DPE UI	English, French, Dutch, Simplified Chinese, Japanese, Korean
FLR UI [a]	English
vCD Tenant Portal UI	English, Simplified Chinese, Japanese

a. FLR UI is deprecated since version 19.2.

Operating system (OS) enhancements

vCD DPE 19.2 includes an upgrade to the SUSE Linux Enterprise Server (SLES) 12 SP4 operating system. This upgrade replaces the previous SLES 11 OS.

The OS upgrade does not affect the functionality or interfaces of the software. However, take note of the following important points:

- The Avamar platform OS security rollup supports vCD DPE deployments that run SLES 12 SP4 starting with release 2019R3.
- The upgrade changes some underlying operating system commands, such as the move from `systemv` to `systemd`.
- The upgrade also updates some underlying libraries and dependencies.

New deployments of the vCD DPE deploy with SLES 12 SP4.

Known problems and limitations

The following table lists known issues that apply to vCloud Director Data Protection Extension 19.2.

Table 4 vCloud Director Data Protection Extension Known Issues

ID	Description	Workaround
	For a migrated VM, vCloud Director Data Protection Extension 19.2 only supports the restore as a new stand-alone VM, not the restore to the original VM. The restore of a network card backup also includes a limitation: • If the network card is a DSwitch in the backup, then you can restore the backup directly. • If the network card is a vSwitch in the backup, then after the restore, the type is None and you must reconfigure the network card.	
	vCloud Director Data Protection Extension does not support fast provisioning of VMs. The restore of any vApp backup, fast-provisioned or not, to a fast-provisioned vCD is not supported.	
54592	When using filters on "GET list of backup policies in vDC," the full list of policies is returned rather than the filtered list.	
60413	Restrictions cannot currently be set on a vappowner's ability to update the exclude list.	
60590	The optional query filters for the Backup Policy Template are not functioning.	

Table 4 vCloud Director Data Protection Extension Known Issues (continued)

ID	Description	Workaround
60854	When the VPA server is deployed, vami_set_hostname fails. The error in `/var/log/messages` is: `vami_set_hostname, line 75: Inaccessible file: vami_access -rw /etc/mailname failed`	Reboot the VPA. If rebooting does not resolve the issue, ensure that DNS forward and reverse lookup is configured, and redeploy the VPA.
188555	Switching a backup repository that contains replication policies from active to inactive, and then back to active, causes ad-hoc replications to fail with an internal server error.	1. Disable and enable the replication policy in vCloud Director Data Protection Extension's UI. 2. Enable the policy in Avamar.
189471	When a policy has a schedule validation issue (for example, its end date has passed), an On Demand policy also shows validation errors.	
190765	You cannot create a restore-only repository with a name containing 128 special characters, such as Kanji. ASCII special characters should work, however.	
191487	Two or more VCP server cells should not update the same Backup Gateway at the same time.	
191883	In replication policies, the retention value is not changing back to the default value when the Override backup expiration option is enabled and then disabled.	
192105	When updating a backup schedule, if you change the "End After" date to today's date using vCloud Director Data Protection Extension's UI, the new date is not updated in the MCGUI. The MCGUI still shows the original "End After" date.	Do not select today's date in the "End After" Activation Constraints when creating or editing a backup schedule.
192402	Switching between the Repositories and Policies tabs in the Configure > Organizations window shows last selected VDC.	Select a different Org VDC, and then select the original Org VDC again.
192414	This issue pertains to inconsistent behavior between backup and replication policies. If a vApp is assigned to a non-default backup policy and then restored to new, the vApp is assigned to the non-default backup policy. However, if a vApp is assigned to a non-default replication policy and then restored to new, the vApp is assigned to the default policy.	
224565	If an invalid password is set for `cst`, current behavior throws a `NullPointerException` on creation of the lockbox. Service startup	

Table 4 vCloud Director Data Protection Extension Known Issues (continued)

ID	Description	Workaround
	continues with additional exceptions, and then terminates. A better error message is needed.	
237084	Query and restore from replicated backups is not supported if two or more replication hops exist.	
241202	When using the Preflight tool, a trailing white space in the properties file causes an error to be displayed.	
242303	When using the File-level recovery UI, if a non-existent file and/or an incorrect path is selected for restore, the following error message is displayed: `Internal Error: Unknown Error on Avamar Task, Aborting...`	Type the proper path and file name for restore.
242305	When using the File-level recovery UI, a VM connection can be deleted while a restore is in progress.	
242798	File-level recovery browse fails with a Backup Gateway timeout when trying to browse large number of files or folders. Extend the VCD Extensibility timeout to 30 seconds or more to browse for 5000 files and folders.	
244140	File-level recovery does not support RDM, therefore the FLR UI does not show RDM disks during a VM Source Browse.	
247857	Backups that are attempted by Active Director users for Avamar are not supported due to vApp Proxy session tickets.	
249670	Scrollbars are not displayed when a large number of items are selected to be restored in the File-level recovery UI.	Select fewer items, or zoom out using the web browser controls.
253669	Setting a default Replication Policy may take up to 60 seconds to complete.	

Resolved issues

The following table lists the issues that have been resolved for this release of vCloud Director Data Protection Extension.

Table 5 vCloud Director Data Protection Extension Resolved Issues

ID	Description
294256	One failed activity query should not affect others.

Table 5 vCloud Director Data Protection Extension Resolved Issues (continued)

ID	Description
294066	No download dialog box displays when getting activities for more than 10 vApps at the same time.
293119	vApp is trapped in maintenance mode if the MCS job is cancelled after being initiated.
293117	vApp is trapped in maintenance mode when the virtual machine has a disk size of zero.
292115	vcpsrv service does not fully start after a fresh installation of a vcpserver node.
290558	vApp is left in maintenance mode after a restore to original fails.
290129	The encryption option is enabled by default in the Virtual Cloud Protector (VCP) user interface. If you disable this option, replication failure can occur in Avamar 7.5 and later releases, returning a work status of OPTION_INCOMPATIBILITY.
245607	File-level recovery UI may time out 20 minutes after restoring files or folders for the same VM. The following error message is displayed: `Unable to browse destination. Please see the vCP Server log.`

Documentation

The following documentation is available for vCloud Director Data Protection Extension.

vCloud Director Data Protection Extension Administration and User Guide

This document describes how to configure and use vCloud Director Data Protection Extension.

vCloud Director Data Protection Extension Release Notes

The Release Notes contain supplemental information about vCloud Director Data Protection Extension.

vCloud Director Data Protection Extension Installation and Upgrade Guide

This guide describes how to install and upgrade vCloud Director Data Protection Extension.

Avamar Backup Extension to vCloud Director REST API Reference Guide

vCloud Director Data Protection Extension is an integrated extension to the standard VMware vCloud Director API. This document describes the plug-in's backup REST API extension, which adds a small number of new operations to the existing vApp and Org vDC objects.

vCloud Director Data Protection Extension Message Bus Specification

This document describes vCloud Director Data Protection Extension's notification interface for clients of the REST API.

Avamar for VMware User Guide

This guide describes how to install, configure, and use Avamar to back up and restore virtual machines in a VMware environment.

Troubleshooting and getting help

The Avamar support page provides access to licensing information, product documentation, advisories, and downloads, as well as how-to and troubleshooting information. This information may resolve a product issue before contacting Customer Support.

To access the Avamar support page:

1. Go to https://www.dell.com/support/home/us/en/19.
2. Type a product name in the **Enter a Service Tag, Serial Number, Service Request, Model, or Keyword** search box.
3. Select the product from the list that appears. When you select a product, the **Product Support** page loads automatically.
4. (Optional) Add the product to the **My Products** list by clicking **Add to My Saved Products** in the upper right corner of the **Product Support** page.

Knowledgebase

The Knowledgebase contains applicable solutions that you can search for either by solution number (for example, KB000xxxxxx) or by keyword.

To search the Knowledgebase:

1. Go to https://www.dell.com/support/home/us/en/19.
2. Under the **Support** tab, click **Knowledge Base**.
3. Type either the solution number or keywords in the search box. Optionally, you can limit the search to specific products by typing a product name in the search box and then selecting the product from the list that appears.

Online communities

Go to Community Network at http://community.EMC.com for peer contacts, conversations, and content on product support and solutions. Interactively engage online with customers, partners, and certified professionals for all products.

Live chat

To engage Customer Support by using live interactive chat, click **Join Live Chat** on the **Service Center** panel of the Avamar support page.

Service Requests

For in-depth help from Customer Support, submit a service request by clicking **Create Service Requests** on the **Service Center** panel of the Avamar support page.

> **Note:** To open a service request, you must have a valid support agreement. Contact a sales representative for details about obtaining a valid support agreement or with questions about an account.

To review an open service request, click the **Service Center** link on the **Service Center** panel, and then click **View and manage service requests**.

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