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VMware Cloud Director 10.1.1 Release Notes

VMware Cloud Director 10.1.1 | 28 MAY 2020 | Build 16288798 (installed build 16282995)

Check for additions and updates to these release notes.

What's in this Document

- [What's New](#)
- [System Requirements and Installation](#)
- [Documentation](#)
- [Previous Releases of VMware Cloud Director 10.1.x](#)
- [Resolved Issues](#)
- [Known Issues](#)

What's New

The VMware Cloud Director 10.1.1 Release introduces support for VMware NSX-T Data Center 3.0, vSAN 7.0, and VMware vSphere 7.0. This release provides also bug fixes, updates the VMware Cloud Director appliance base OS and the VMware Cloud Director open-source components.

System Requirements and Installation

For information about system requirements and installation instructions, see [VMware Cloud Director 10.1 Release Notes](#).

UPDATED

Supported VMware Cloud Director Server Operating Systems

- CentOS 8.0
- CentOS 8.1
- Red Hat Enterprise Linux 8.0
- Red Hat Enterprise Linux 8.1

Documentation

To access the full set of product documentation, go to [VMware Cloud Director Documentation](#).

Previous Releases of VMware Cloud Director 10.1.x

[VMware Cloud Director 10.1 Release Notes](#)

Resolved Issues

- **Creation of a routed organization VDC network fails**

Edit document try to create a routed organization VDC network, the operation fails with an error message.
The input request is invalid.

- **You cannot update the storage policy of a virtual machine**

If a vCenter High Availability cluster is configured to designate specific hosts as the failover hosts, updating a VM storage profile fails with a `DisallowedOperationOnFailoverHost` error message.

- **Migration of a virtual machine between resource pools fails**

In a VM configured with multiple hard disks, if you assign different storage policies to the virtual disks, migrating the VM from one resource pool to another fails with an error message.

The operation failed because no suitable resource was found. Could not find a suitable datastore in hub.

- **Creation of a new vApp by using an OVF template fails**

If you create a new vApp using an OVF template, exported from a VM running an ESXi 6.7 Update 3, the operation fails with a `Content is not allowed in prolog` error message.

- **Powering on a virtual machine in an organization VDC configured with flex allocation model fails**

In a flex organization VDC, if you include VM memory overhead and you configure 100% of memory resources guaranteed to the VMs, currently running in the organization VDC, powering on a VM fails with an error message.

The available Memory resources in the parent resource pool are insufficient for the operation.

- **Adding a new hard disk to a virtual machine deletes the existing virtual disks**

When adding new hard disk to a virtual machine, clicking **Save** before the wizard displays the existing virtual disks deletes all configured virtual disks.

- **The New Edge Gateway wizard does not display the list with external networks that are accessible to this edge cluster**

In an organization VDC, if you configure a primary and secondary edge gateway clusters using a vDC network profile, when you try to add a new NSX Data Center for vSphere Edge Gateway to an edge gateway cluster, the **New Edge Gateway** wizard does not display the list with external networks that are accessible to this edge cluster.

Known Issues

- **New** You cannot open a VM web console when using Microsoft Internet Explorer 11

Using Microsoft Internet Explorer 11 to connect to the console of a VM opens a white blank window and you cannot access the VM console.

Workaround: None.

- **New** VMs become non-compliant after converting a reservation pool VDC into a flex organization VDC

In an organization VDC with a reservation pool allocation model, if some of the VMs have nonzero reservation for CPU and Memory, non-unlimited configuration for CPU and Memory, or both, after converting into a flex organization VDC, these VMs become non-compliant. If you attempt to make the VMs compliant again, the system applies an incorrect policy for the reservation and limit and sets the CPU and Memory reservations to zero and the limits to **Unlimited**.

Workaround:

1. A system administrator must create a VM sizing policy with the correct configuration.

2. A system administrator must publish the new VM sizing policy to the converted flex organization

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3. The tenants can use the VMware Cloud Director API or the VMware Cloud Director Tenant Portal to assign the VM sizing policy to the existing virtual machines in the flex organization VDC.

- **The VMware Cloud Director appliance deployment fails when you enable the setting to expire the root password upon the first login**

If you attempt to deploy an appliance with enabled **Expire Root Password Upon First Login** setting, the deployment fails and the `/opt/vmware/var/log/firstboot` log file displays an error:

```
[ERROR] postgresauth script failed to execute.
```

Workaround: Disable the **Expire Root Password Upon First Login** setting and specify an initial root password that contains at least eight characters, one uppercase character, one lowercase character, one numeric digit, and one special character.

- **When a vApp User attempts to create a vApp from a template, this might result in "Operation is denied" message**

If your assigned user role is vApp User, when you attempt to create a vApp from a template and you customize the VM sizing policies for the virtual machines in the vApp, this results in "Operation is denied" message. This happens because the vApp User role allows you to instantiate vApps from templates, but it does not include rights that allow you to customize a virtual machine's memory, CPU or hard disk. By changing the sizing policy, you could be changing the virtual machine memory or CPU.

Workaround: None.

- **NFS downtime can cause VMware Cloud Director appliance cluster functionalities to malfunction**

If the NFS is unavailable due to the NFS share being full, becoming read only, and so on, can cause appliance cluster functionalities to malfunction. HTML5 UI is unresponsive while the NFS is down or cannot be reached. Other functionalities that might be affected are the fencing out of a failed primary cell, switchover, promoting a standby cell, and so on. For more information about setting up correctly the NFS shared storage, see [Preparing the Transfer Server Storage for the VMware Cloud Director Appliance](#).

Workaround:

- Fix the NFS state so that it is not read-only.
- Clean up the NFS share if it is full.

- **Trusting an endpoint while adding vCenter Server and NSX Resources in a multisite environment does not add the endpoint to the centralized certificate storage area**

In a multisite environment, while using the HTML5 UI, if you are logged in to a vCloud Director 10.0 site or trying to register a vCenter Server instance to a vCloud Director 10.0 site, VMware Cloud Director will not add the endpoint to the centralized certificate storage area.

Workaround:

- Import the certificate into the VMware Cloud Director 10.1 site by using the API.
- To trigger the certificate management functionality, navigate to the SP Admin Portal of the VMware Cloud Director 10.1 site, go to the **Edit** dialog of the service, and click **Save**.
- **Trying to encrypt named disks in vCenter Server version 6.5 or earlier fails with an error**
For vCenter Server instances version 6.5 or earlier, if you try to associate new or existing named disks with an encryption enabled policy, the operation fails with a Named disk encryption is not supported in this version of vCenter Server. error.

Workaround: None.

- **In a multisite mixed environment with VMware Cloud Director versions 10.0 and 10.1, trusting the Edit document s for vCenter Server and NSX connections works only for the objects from the local site**

If you have a multisite environment with VMware Cloud Director versions 10.0 and 10.1 associated with each other, when you log in to one of the sites, you cannot register vCenter Server or NSX Manager instances on the other site.

Workaround: Log into the site in which you want to register the vCenter Server or NSX Manager instance and start the registration process.

- **In the VMware Cloud Director Tenant Portal, you cannot filter VMs by data center from the advanced filtering option for virtual machines under the Applications tab**

In the VMware Cloud Director Tenant Portal, when you navigate to Virtual Machines under the Applications tab in the top navigation bar, filtering the virtual machines by data center from the advanced filtering option results in an error Bad request: Unknown property name vdcName.

Workaround: From the top navigation bar, select **Data Centers** and select a data center to view the virtual machines in it.

- **New Extension services cannot process RabbitMQ messages from VMware Cloud Director**
Extension services that rely on RabbitMQ cannot get the header `notification.type` from a message because the header has a new temporary name. The header name for VMware Cloud Director 10.1.0 is `notification.operationType`.

Workaround: If your extension services process RabbitMQ messages from VMware Cloud Director and use the `notification.type` message header, you must change them. If the `notification.type` header is not available, extension services must get the value from the header `notification.operationType`. This change is needed only for version 10.1.0.

- **In the VMware Cloud Director Service Provider Admin Portal, deleting an organization virtual data center fails with an error**

In the VMware Cloud Director Service Provider Admin Portal, if you add an edge gateway to your organization VDC and enable the gateway to provide VMware Cloud Director Distributed Routing, trying to delete the organization VDC recursively fails with a Cannot delete organization VDC network error message.

Workaround:

1. By using API, delete the organization VDC networks and the edge gateways associated with the organization VDC.
2. By using API, delete the organization VDC.

- **If you disable the provider access to the legacy API login endpoint, all API integrations that rely on the system administrator login stop working, including vCloud Usage Meter and vCloud Availability for VMware Cloud Director**

Starting with vCloud Director 10.0, you can use separate VMware Cloud Director OpenAPI login endpoints for service provider and tenant access to VMware Cloud Director. If the service provider access to the legacy `/api/sessions` endpoint is disabled, it causes products that integrate with VMware Cloud Director, like vCloud Usage Meter and vCloud Availability for VMware Cloud Director, to stop working. These products will require a patch to continue to operate.

The issue affects only system administrators. The tenant login is not affected.

Workaround: Re-enable the service provider access to the legacy `/api/sessions` endpoint by using the cell management tool.

- **When you change the reservation guarantee values of a VDC, the existing VMs are not updated**

[Edit document](#) **y even after a reboot**

If you have a flex organization VDC with the system default policy and powered-on virtual machines on that VDC are with the default sizing policy, when you increase the resource guarantee value of the VDC, the resource reservation for the existing VMs is not updated and they are also not marked as non-compliant. The issue occurs also when you convert a legacy VDC allocation model to a flex allocation model and the existing VMs become non-compliant with the new default policy of the flex organization VDC after the conversion.

Workaround:

1. To find the VM identifier, in the VMware Cloud Director Tenant Portal, navigate to the Details page of the VM. The URL shows the identifier
https://Cloud_Director_IP_address_or_host_name/tenant/.../vm-Identifier/general
2. To display the non-compliant VMs in the VMware Cloud Director UI, perform an explicit compliance check against the VMs by using the VMware Cloud Director API.
POST: https://VCD_IP_Address/api/vApp/vm-Identifier/action/checkComputePolicyCompliance
3. To reapply the policy and reconfigure the resource reservations, in the VMware Cloud Director Tenant Portal, click **Make VM Compliant** for a non-compliant VM.

- **VMware Cloud Director displays incorrect information about running and total VMs and CPU and memory stats in dedicated vCenter Server instances**

If a dedicated vCenter Server is version 6.0 U3i or earlier, 6.5U2 or earlier, or 6.7U1 or earlier, VMware Cloud Director displays incorrect information about running VMs, total VMs, and CPU and memory statistical information in the vCenter Server instance. The dedicated vCenter Server tile in the Tenant Portal and the dedicated vCenter Server information in the Service Provider Admin Portal display zero for both running and total VMs, even when there are virtual machines in the vSphere environment.

Workaround: Upgrade the vCenter Server instance to version 6.0 U3j, 6.5U3, 6.7U2 or later.

- **Changing the compute policy of a powered on VM might fail**

When trying to change the compute policy of a powered on VM, if the new compute policy is associated with a provider VDC compute policy that has VM Groups or Logical VM Groups, an error occurs. The error message contains: Underlying system error:

com.vmware.vim.binding.vim.fault.VmHostAffinityRuleViolation.

Workaround: Power off the VM, and retry the operation.

- **When using the VMware Cloud Director Service Provider Admin Portal with Firefox, you cannot load the tenant networking screens**

If you are using the VMware Cloud Director Service Provider Admin Portal with Firefox, the tenant networking screens, for example, the **Manage Firewall** screen for an organization virtual data center, might fail to load. This issue happens if your Firefox browser is configured to block Third-Party cookies.

Workaround: Configure your Firefox browser to allow third-party cookies.

- **VMware Cloud Director 10.1 supports only a list of input parameters of vRealize Orchestrator workflows**

VMware Cloud Director 10.1 supports the following input parameters of vRealize Orchestrator workflows:

- boolean
- sdkObject
- secureString
- number
- mimeAttachment

- o properties

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- o composite
- o regex
- o encryptedString
- o array

Workaround: None

- **A fast-provisioned virtual machine created on a VMware vSphere Storage APIs Array Integration (VAAI) enabled NFS array, or vSphere Virtual Volumes (VVols) cannot be consolidated**

In-place consolidation of a fast provisioned virtual machine is not supported when a native snapshot is used. Native snapshots are always used by VAAI-enabled datastores, as well as by VVols. When a fast-provisioned virtual machine is deployed to one of these storage containers, that virtual machine cannot be consolidated .

Workaround: Do not enable fast provisioning for an organization VDC that uses VAAI-enabled NFS or VVols. To consolidate a virtual machine with a snapshot on a VAAI or a VVol datastore, relocate the virtual machine to a different storage container.

- **If you add an IPv6 NIC to a VM and then you add an IPv4 NIC to the same VM, the IPv4 north-south traffic breaks**

Using the HTML5 UI, if you add an IPv6 NIC first or configure an IPv6 NIC as the primary NIC in a VM, and then you add an IPv4 NIC to the same VM, the IPv4 north-south communication breaks.

Workaround: First you must add the IPv4 NIC to the VM and then the IPv6 NIC.

- **When you use the VMware Cloud Director API to create a VM from a template and you don't specify a default storage policy, if there is no default storage policy set for the template, the newly created VM attempts to use the storage policy of the source template itself**

When you use the VMware Cloud Director API to create a VM from a template and you don't specify a default storage policy, if there is no default storage policy set for the template, the newly created VM attempts to use the storage policy of the source template itself instead of using the storage policy of the organization VDC in which you are deploying it.

Workaround: None.