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VMware Cloud Director 10.1.2 Release Notes

VMware Cloud Director 10.1.2 | 27 AUG 2020 | Build 16779634 (installed build 16779297)

Check for additions and updates to these release notes.

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What's New

The VMware Cloud Director 10.1.2 Release provides bug fixes, updates the VMware Cloud Director appliance base OS and the VMware Cloud Director open-source components. This release introduces additional support of guest customization on virtual machines running Ubuntu 20.04 or Photon OS.

Caveats and Limitations

You cannot enable guest customization on a virtual machine running one of the following operating systems:

- Windows Server 2003
- Windows Server 2000
- Windows XP
- Red Hat Enterprise Linux 4.x
- Ubuntu 13.10
- Ubuntu 13.04
- Ubuntu 10.04

System Requirements and Installation

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

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 10.1.1 Release Notes](#)[Edit document](#)[VMware Cloud Director 10.1 Release Notes](#)

Resolved Issues

- **Powering on a VM in a newly deployed vApp fails with an error message**

During a deployment of a new vApp, if you configure a direct organization VDC network with both IPv4 and IPv6, powering on the newly deployed IPv6 VM fails with an error message.

Following errors occurred while updating network connections: Invalid network parameter: Specified address is not in the subnet range.

- **The New Security Group wizard becomes unresponsive while adding a virtual machine as a member of a security group**

In the **New Security Group wizard**, if you try to add a VM object as a new member of a security group by clicking the import icon instead of selecting the object from the left panel, and move it to the right panel by clicking the right arrow, the wizard becomes unresponsive.

- **Editing a virtual machine hard disk fails with an error message**

In an organization VDC backed by a provider VDC, if you configure more than 10 storage policies, editing a VM hard disk fails with an error message.

TypeError: Cannot read property 'diskIopsEnabled' of undefined.

- **Updating a virtual machine name in a vApp results in incorrect guest OS customization properties of the virtual machine**

The issue occurs if a vApp template has the **Enable Guest Customization**, **Change SID**, and **Allow local administrator password** options enabled. When you create a new vApp from the vApp template and you update the name of a VM in the resulted vApp, the **Enable Guest Customization**, **Change SID**, and **Allow local administrator password** options are deselected.

- **You can view and delete an Anti-Affinity rule located outside your current organization VDC**

If you add more than one vCenter Server instances in vCloud Director, in the vCloud Director tenant portal you can view and delete an anti-affinity rule located in other organization VDC.

- **Copying a virtual machine fails with an error message**

When you try to copy a VM, the operation fails with an error message.

VimInvalidStateException: The operation could not be performed because the object is in an invalid state

- **An organization VDC network appears as distributed after you disable the distributed routing on the associated edge gateway**

In an edge gateway configured with a distributed organization VDC network, after you run PUT /admin/edgeGateway/{id}/action/updateProperties VMware Cloud Director API to disable the distributed routing on the edge gateway, the organization VDC network still appears as distributed.

- **You cannot select an object when executing a vRealize Orchestrator workflow from the VMware Cloud Director service library**

If you initiate a vRealize Orchestrator workflow imported as a VMware Cloud Director service, the option to select an object from the service wizard is disabled and you are unable to proceed with the service execution.

- **You cannot log out from VMware Cloud Director by initiating a single logout from an external application**

If you configure VMware Cloud Director with a SAML identity provider(IDP) and the third-party IDP AML-based Single Logout protocol, logging out of the third-party IDP does not terminate the VMware Cloud Director session.

- **Removing an external network from an edge gateway fails with an error message**

On an edge gateway configured with more than one external networks, if you configure an Open Shortest Path First (OSPF) routing protocol, removing any of the external networks fails with an error message. OSPF cannot be enabled on Vnic[s] without any configured subnets or if Vnic is disconnected. Please revisit OSPF configuration and retry., error code 13051

- **Configuring the interface of an associated with an edge cluster organization VDC network to subinterface fails**

If an organization VDC network is associated with an edge cluster, configuring the network interface to Subinterface fails with an error message.

VXLAN Network Pool does not have correct vds contexts. Cannot add subinterfaces

- **Authentication against the OpenAPI by using OAuth Identity Provider fails with an error message**

If you authenticate as an OpenID Connect (OIDC) user against the VMware Cloud Director OpenAPI login endpoints, the login fails with an 400 Bad Request error message.

- **Organization VDC cannot discover a VM that is created in a vCenter Server resource pool that backs the VDC**

In a vCenter Server resource pool that backs a VMware Cloud Director organization VDC, if a VM NIC is backed by NSX-T Data Center, the organization VDC cannot discover the VM.

- **You cannot correctly configure or update the organization email settings by using the VMware Cloud Director API**

If you use an SMTP server that requires an SSL/ TLS connection, configuring or updating the organization email settings by using the VMware Cloud Director API does not populate the sslTrustStore and smtpSecureMode parameters.

- **In the VMware Cloud Director Service Provider Admin Portal, opening the list of all events fails with an error message**

If the events list consists of more than 300 000 event entries, opening the events list fails with a timeout error message.

Could not execute query - ERROR: canceling statement due to statement timeout

- **In a flex organization VDC, the values of the CPU, memory, and storage hardware resources are zero**

If you configure an organization VDC to use the flex allocation model, the values of the used hardware resources, such as CPU, memory, and storage on the Virtual Datacenters dashboard screen of the vCloud Director tenant portal are zero.

- **On an edge gateway, updating an IPv6 address fails with an error message**

On an edge gateway configured with a suballocated IP pool, updating an IPv6 address fails with an error message.

Unable to sub allocate an IPv6 address - IP does not belong to any interface's IP range on gateway.

Known Issues

- **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 [Edit document](#) 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**.

o 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 VDC.
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:

- o Fix the NFS state so that it is not read-only.
 - o 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:

- o 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 certificates 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. [Edit document](#) ucts 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 accordingly 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

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- boolean
- sdkObject
- secureString
- number
- mimeAttachment
- properties
- date
- composite
- regex
- encryptedString
- 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.

- **You cannot access the Service Provider Admin Portal and the VMware Cloud Director Tenant Portal after rebooting the VMware Cloud Director VM**

If you reboot the VMware Cloud Director VM by using a method other than vSphere Client, for example by using vSphere High Availability or VMware Host Client, you cannot access the Service Provider Admin Portal and the VMware Cloud Director Tenant Portal. This happens because after the reboot, the deployment OVF parameters are deleted from the ovfEnv.xml file, and the cell cannot be accessed.

Workaround: Reboot the VMware Cloud Director VM by using the vSphere Client.