



VMware vRealize Orchestrator 8.5.1 Release Notes

vRealize Orchestrator Appliance 8.5.1 | 16 September 2021 | Build 18627310

vRealize Orchestrator Update Repository 8.5.1 | 16 September 2021 | Build 18627310

Check frequently for additions and updates to these release notes.

What's in the Release Notes

The release notes cover the following topics:

- [What's New in vRealize Orchestrator 8.5.1](#)
- [Deploying the VMware vRealize Orchestrator 8.5.1 Appliance](#)
- [Upgrading and Migrating to vRealize Orchestrator 8.5.1](#)
- [Plug-ins Installed with vRealize Orchestrator 8.5.1](#)
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Important

Upgrade failure after performing steps in KB 87120

Performing the instructions used to address the CVE-2021-44228 and CVE-2021-45046 log4j vulnerabilities described in KB 87120 can cause upgrade failures for vRealize Automation and vRealize Orchestrator 8.6.2 or earlier. For a workaround, see [KB 87794](#).

What's New in vRealize Orchestrator 8.5.1

The vRealize Orchestrator 8.5.1 release focuses on maintenance and bug fixes.

Deploying the VMware vRealize Orchestrator 8.5.1 Appliance

The vRealize Orchestrator Appliance is a VMware Photon OS-based appliance distributed as an OVA file. It is prebuilt and preconfigured with an internal PostgreSQL database, and it can be deployed with vCenter Server 6.0 or later.

The vRealize Orchestrator Appliance is a fast, easy to use, and more affordable way to integrate

the VMware cloud stack, including vRealize Automation and vCenter Server, with your IT processes and environment.

For instructions about deploying the vRealize Orchestrator Appliance, see [Download and Deploy the vRealize Orchestrator Appliance](#).

For information about configuring the vRealize Orchestrator Appliance server, see [Configuring a Standalone vRealize Orchestrator Server](#).

Upgrading and Migrating to vRealize Orchestrator 8.5.1

You can upgrade a standalone or clustered vRealize Orchestrator 8.x deployment to the latest product version by using a mounted ISO image.

For more information about upgrading the vRealize Orchestrator Appliance, see [Upgrading vRealize Orchestrator](#).

You can migrate a standalone vRealize Orchestrator instance authenticated with vSphere or vRealize Automation to vRealize Orchestrator 8.5.1. Product versions of vRealize Orchestrator 7.x supported for migration include versions 7.3 to 7.6. The migration of clustered vRealize Orchestrator 7.x deployments is not supported.

For more information about migrating the vRealize Orchestrator Appliance, see [Migrating vRealize Orchestrator](#).

Plug-Ins Installed with vRealize Orchestrator 8.5.1

The following plug-ins are installed by default with vRealize Orchestrator 8.5.1

- vRealize Orchestrator vCenter Server Plug-In 7.0.0
- vRealize Orchestrator Mail Plug-In 8.0.0
- vRealize Orchestrator SQL Plug-In 1.1.7
- vRealize Orchestrator SSH Plug-In 7.3.0
- vRealize Orchestrator SOAP Plug-In 2.0.5
- vRealize Orchestrator HTTP-REST Plug-In 2.4.1
- vRealize Orchestrator Plug-In for Microsoft Active Directory 3.0.11
- vRealize Orchestrator AMQP Plug-In 1.0.6
- vRealize Orchestrator SNMP Plug-In 1.0.3
- vRealize Orchestrator PowerShell Plug-In 1.0.19
- vRealize Orchestrator Multi-Node Plug-In 8.5.1
- vRealize Orchestrator Dynamic Types 1.3.6
- vRealize Orchestrator vCloud Suite API (vAPI) Plug-In 7.5.2

Earlier Releases of vRealize Orchestrator

Features and issues from earlier releases of vRealize Orchestrator are described in the release notes for each release. To review release notes for earlier releases of vRealize Orchestrator, click one of the following links:

- [vRealize Orchestrator 8.5](#)
- [vRealize Orchestrator 8.4.2](#)
- [vRealize Orchestrator 8.4.1](#)
- [vRealize Orchestrator 8.4](#)
- [vRealize Orchestrator 8.3](#)
- [vRealize Orchestrator 8.2.1](#)
- [vRealize Orchestrator 8.2](#)
- [vRealize Orchestrator 8.1](#)
- [vRealize Orchestrator 8.0.1](#)
- [vRealize Orchestrator 8.0](#)
- [vRealize Orchestrator 7.6.0](#)
- [vRealize Orchestrator 7.5.0](#)
- [vRealize Orchestrator 7.4.0](#)

Resolved Issues

- **Requested catalog item completes and you receive a "Start workflow failed with client error! Possible reason is missing or invalid required parameter!" error.**
Requested vRealize Automation catalog items that invoke a vRealize Orchestrator workflow can fail. This issue can occur for workflows with a Composite input parameter type that has a SecureString field.
- **Unable to select an action as an external source in input forms because of a return type issue.**
In the vRealize Orchestrator Client **Input Form** tab, you are unable to select an action that has a return type of either Any or Array/Any for a default value or value option.
- **Workflow with a Properties input parameter type and widget multi value picker does not fill the widget correctly when using a default value action returning the Properties type.**
Using an action returning a Properties type as the default value of a multi value picker widget results in having empty keys in the value column.
- **Duplicated workflows created in Orchestrator Legacy Client might display a constant instead of an external action in their value options.**
When editing the input parameters of a workflow that is designed in the Orchestrator Legacy Client, and duplicated in the vRealize Orchestrator Client, the value options might be set as a constant instead of an external action.

Known Issues

The known issues are grouped as follows.

- [Install/Migration/Upgrade issues](#)
- [Web client issues](#)
- [Miscellaneous Issues](#)
- [Previously known issues](#)

Install/Migration/Upgrade issues

- **Custom content is not available on the Git History page after migrating vRealize Orchestrator 7.5 to vRealize Orchestrator 8.x.**

After migrating vRealize Orchestrator 7.5 to vRealize Orchestrator 8.x, when you configure your Git integration, custom content is not available on the **Git History** page.

Workaround: To see all migrated content as local changes in Git, manually edit and save custom content to convert it to an 8.x-compatible format before you make an initial push to the repository. After that, you can push all migrated content to your Git repository.

- **After upgrading to vRealize Orchestrator or vRealize Automation 8.x, some resource elements in the vRealize Orchestrator Client might appear changed or reverted to an older version.**

This issue occurs with resource elements that were previously updated in the vRealize Orchestrator Client by using a different source file. After upgrading your vRealize Orchestrator or vRealize Automation deployment, these resource elements can be replaced by an older version. This is an intermittent issue.

Workaround:

1. Log in to the vRealize Orchestrator Client.
2. Navigate to **Assets>Resources**.
3. Select the resource element affected by the issue.
4. Select the **Version History** tab and restore the element to the appropriate version.
5. Repeat for all affected resource elements.

Web client issues

- **"Add a REST host" workflow fails when trying to add an HTTPS endpoint with a HTTP proxy using basic authentication.**

This is intended behavior because of the security vulnerabilities, associated with this type of communication protocol: the possibility of accidentally exposing plain text sensitive data over HTTP.

Workaround: No workaround. This use case is not supported.

- **Local changes are not available after duplicating and deleting a workflow.**

You duplicate a workflow and then delete it. In the **Git History** page, there is no local change for the deleted workflow.

No workaround.

- **Users can discard Git changes to content they do not have access to.**

Users with workflow designer rights can discard Git changes to content that they do not have access to from the **Git History** page.

No workaround.

- **Pushing commits to a protected Git branch fails.**

If the configured Git branch is protected, the push operation fails consistently, but the message that appears indicates that the push is successful.

No workaround.

- **In the vRealize Orchestrator Client, you see tags containing underscore characters in the name.**

The vRealize Orchestrator Client does not support tag names with less than three characters or names containing white-space characters. All tags that are auto-generated from objects with shorter names are suffixed with underscore characters. All white-space characters will also be replaced with underscores. For example, a workflow located in `/Library/project A/app/DR/backup` in the Orchestrator Legacy Client, when migrated, has the following auto-generated tags in the vRealize Orchestrator Client: "Library", "project_A", "app", "DR_".

Workaround: Follow the tagging conventions when creating new content in the vRealize Orchestrator Client.

- **The vRealize Orchestrator container restarts when over 5000 actions are run for the purpose of catalog item population.**

This issue was tested in an environment where 250 catalog items, each running over 20 vRealize Orchestrator actions, were run in parallel. This causes all available Tomcat threads to be exhausted, which in turn causes a vRealize Orchestrator container restart due to a health check probe fail.

No workaround.

- **Running any action from a vRealize Orchestrator Client embedded in a vRealize Automation in an external vRealize Orchestrator deployment returns the following: Action execution with id: was not found.**

This issue occurs when a user wants to run or debug an action in an external vRealize Orchestrator cluster while triggering it from an embedded vRealize Orchestrator Client. The external vRealize Orchestrator cluster must be added as an integration in vRealize Automation.

Workaround: Use the external vRealize Orchestrator Client to start or debug actions.

- **Inconsistent coloration of variables bound in scriptable tasks.**

Only the first match of a bound variable included in the code of a workflow scriptable task has coloration.

No workaround.

Miscellaneous Issues

- **Running the Run SSH command workflow in the Multi-node plug-in causes the workflow to fail.**

Attaching a remote vRealize Orchestrator instance using the Multi-node plug-in, and running the **Run SSH command** workflow, which is synchronized from the remote repository, causes the workflow to fail.

Workaround: To make the workflow pass successfully, rename the local variable in the generated workflow for the **Run SSH Command** final scripting element. The following script is an example fix:

```
var r = remoteToken.getOutputParameters();
result = r.get("result");
errorText = r.get("errorText");
outputText = r.get("outputText");
```

- **vRealize Orchestrator database size is very large because of the vmo_tokenreplay table.**

The vmo_tokenreplay table is very large in size.

Workaround: Log in to Control Center as **root**. Under **Extension Properties**, select the token replay extension and disable the **Record replay for all workflow runs** property.

- **Importing a package created in a newer vRealize Orchestrator version into an earlier version of vRealize Orchestrator can cause an error.**

Compatibility issues between vRealize Orchestrator versions lead to the inability to import packages created in newer product versions into earlier vRealize Orchestrator deployments.

No workaround.

- **You receive an error message when attempting to connect to TLS 1.0 or 1.1 services.**

vRealize Orchestrator now uses the TLS 1.2 protocol. Any outgoing connections to external services that use the older TLS 1.0 or 1.1 versions of the protocol can fail with the following error message: `InternalError: The server selected protocol version TLS10/TLS11 is not accepted by client preferences [TLS12]`.

Workaround: See [KB 84201](#).

- **The vRealize Orchestrator Control Center password is reset to its initial value after service redeployment.**

After the vRealize Orchestrator Appliance is deployed, you can change the Control Center password by running the `vracli vro update-cc-password` command. However, after running the `/opt/scripts/deploy.sh` script to redeploy the vRealize Orchestrator services, the Control Center password is reset to its initial value.

No workaround.

Previously known issues

To view a list of previous known issues, click [here](#).

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