

*Applying Data Virtualization service
patch v1.5.0.0-234*



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Introduction

This document describes how to install the Data Virtualization service patch v1.5.0.0-234.

The v1.5.0.0-234 service patch includes fixes for the following issues:

- [DT089431](#) : Virtualize page fails to load data for data sources that have non-standard data types.
- [DT089433](#): Selecting a decimal column when virtualizing a table results in an error.
- [DT089484](#): Unable to preview tables with non-standard data types.
- [DT089486](#): Issues after virtualizing files that have long names.

Optionally, this document provides instructions on how to patch down to service Version v1.5.0.0-217.

Applying patches

A Red Hat® OpenShift® project administrator can apply patches on a cluster that is connected to the internet or on an air-gapped cluster.

Before you begin

Required role: To install a patch, you must be an administrator of the project (namespace) where the software is deployed.

In this topic, the term *software* can be either the Cloud Pak for Data control plane or a service.

Before you apply patches, ensure that:

- The machine from which you will run the commands meets the requirements described in [Preparing your installation node](#).
- You have the required information about your Red Hat OpenShift cluster, as described in [Collecting information about your cluster from your administrator](#).
- The Data Virtualization service instance is running correctly. All service pods must be running and ready.
- You use the same `repo.yaml` file that you used to deploy Data Virtualization service Version `v1.5.0.0-217`. The Data Virtualization service Version `v1.5.0.0-217` is the 1.5.0 GA release.
- Obtain the [Cloud Pak for Data installation files](#) for Version 3.5.0.

Tip: For a list of all available options, enter the following command:

```
./cpd-cli patch --help
```

Procedure

To install patches:

1. Complete the appropriate task to apply patches on your environment:
 - [“Applying patches on clusters connected to the internet”](#) on page 2
 - [“Applying patches on air-gapped clusters”](#) on page 3

If needed, you can [restore the service Version v1.5.0.0-217](#).

Applying patches on clusters connected to the internet

From your installation node:

1. Change to the directory where you placed the Cloud Pak for Data command-line interface and the `repo.yaml` file.
2. Log in to your Red Hat OpenShift cluster as a project administrator:

```
oc login OpenShift_URL:port
```

3. Run the following command to patch the service:

Important: If you are using the internal Red Hat OpenShift registry and you are using the default self-signed certificate, specify the `--insecure-skip-tls-verify` flag to prevent x509 errors.

```
./cpd-cli patch \  
--repo ./repo.yaml \  
--assembly dv \  
--namespace Project \  
--patch-name Patch_name \  
--transfer-image-to Registry_location \  
--cluster-pull-prefix Registry_from_cluster \  

```

```
--ask-push-registry-credentials \  
--action transfer
```

Replace the following values:

| Variable | Replace with |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Project</i> | Specify the project (namespace) where the software that you want to patch is deployed. |
| <i>Patch_name</i> | Specify the name of the patch that you want to install. This information is included in the patch description. Value: v1.5.0.0-234 |
| <i>Registry_location</i> | The location to store the images in the registry server. Guidance for Red Hat OpenShift registry users: <ul style="list-style-type: none"> To determine the external route to the registry, run the appropriate command for your environment: <ul style="list-style-type: none"> OpenShift 3.11: <pre>\$(oc get route -n default docker-registry -o jsonpath="{.spec.host}")</pre> OpenShift 4.5: <pre>\$(oc get route -n openshift-image-registry grep image-registry awk '{print \$2}')</pre> |
| <i>Registry_from_cluster</i> | The location from which pods on the cluster can <i>pull</i> images. Guidance for Red Hat OpenShift registry users: <ul style="list-style-type: none"> This is the internal name of the registry service. The default service name is: <ul style="list-style-type: none"> OpenShift 3.11: <pre>docker-registry.default.svc:5000</pre> OpenShift 4.5: <pre>image-registry.openshift-image-registry.svc:5000</pre> |

4. Run the following command to patch the service instance:

```
./cpd-cli patch \  
--repo ./repo.yaml \  
--assembly dv \  
--namespace Project \  
--patch-name Patch_name \  
--transfer-image-to Registry_location \  
--cluster-pull-prefix Registry_from_cluster \  
--ask-push-registry-credentials \  
--action transfer \  
--all-instances
```

Use the same values that you specified when you patched the service.

Applying patches on air-gapped clusters

From your installation node:

1. Change to the directory where you placed the Cloud Pak for Data command-line interface and the `repo.yaml` file.

2. Run the following command to download the patch to your local machine:

```
./cpd-cli patch \  
--repo ./repo.yaml \  
--assembly dv \  
--version 1.5.0 \  
--patch-name Patch_name \  
--action download
```

Replace the following values:

| Variable | Replace with |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Patch_name</i> | Specify the name of the patch that you want to install. This information is included in the patch description. Value: v1.5.0.0-234 |

3. Transfer the following items to a machine that can connect to the cluster and to the registry server:

- The cpd-cli-workspace directory. Ensure that the directory structure remains unchanged.
- A copy of the Cloud Pak for Data installation command-line interface. Ensure that the command-line interface is compatible with the machine that you are transferring the files to and that it is the same version as the command-line interface that you ran in the preceding steps.

4. From the machine that can connect to the cluster, run the following command to apply the service patch:

Important: If you are using the internal Red Hat OpenShift registry:

- Do not specify the --ask-pull-registry-credentials parameter.
- If you are using the default self-signed certificate, specify the --insecure-skip-tls-verify flag to prevent x509 errors.

```
./cpd-cli patch \  
--namespace Project \  
--load-from Image_directory_location \  
--assembly dv \  
--patch-name Patch_name \  
--transfer-image-to Registry_location \  
--cluster-pull-prefix Registry_from_cluster \  
--ask-push-registry-credentials \  
--action push
```

Replace the following values:

| Variable | Replace with |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Project</i> | Specify the project (namespace) where the software that you want to patch is deployed. |
| <i>Image_directory_location</i> | The location of the cpd-cli-workspace directory. |
| <i>Patch_name</i> | Specify the name of the patch that you want to install. This information is included in the patch description. Value: v1.5.0.0-234 |
| <i>Registry_location</i> | The location to store the images in the registry server. <ul style="list-style-type: none">• To determine the external route to the registry, run the appropriate command for your environment: |

| Variable | Replace with |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <ul style="list-style-type: none"> – OpenShift 3.11: <pre>\$(oc get route -n default docker-registry -o jsonpath="{.spec.host}")</pre> – OpenShift 4.5: <pre>\$(oc get route -n openshift-image-registry grep image-registry awk '{print \$2}')</pre> |
| <i>Registry_from_cluster</i> | <p>The location from which pods on the cluster can <i>pull</i> images.</p> <p>Guidance for Red Hat OpenShift registry users:</p> <ul style="list-style-type: none"> • This is the internal name of the registry service. The default service name is: <ul style="list-style-type: none"> – OpenShift 3.11: <pre>docker-registry.default.svc:5000</pre> – OpenShift 4.5: <pre>image-registry.openshift-image-registry.svc:5000</pre> |

5. Run the following command to download the service instance patch to your local machine:

```
./cpd-cli patch \
--repo ./repo.yaml \
--assembly dv \
--version 1.5.0 \
--patch-name Patch_name \
--action download \
--all-instances
```

Replace the following values:

| Variable | Replace with |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Patch_name</i> | <p>Specify the name of the patch that you want to install. This information is included in the patch description.</p> <p>Value: v1.5.0.0-234</p> |

6. Run the following command to patch the service instance:

```
./cpd-cli patch \
--assembly dv \
--namespace Project \
--load-from Image_directory_location \
--patch-name Patch_name \
--transfer-image-to Registry_location \
--cluster-pull-prefix Registry_from_cluster \
--all-instances \
--action push
```

Use the same values that you specified when you patched the service.

Applying patch back to previous version

A Red Hat OpenShift project administrator can apply patches back to a previous version of Data Virtualization.

Whether a patch succeeded or failed, you can restore Data Virtualization back to v1.5.0.0-217 binaries by running a new patching process with patch name v1.5.0.0-217. You cannot apply Data Virtualization Version v1.5.0.0-217 patch more than once.

Before you begin

Required role: To install a patch, you must be an administrator of the project (namespace) where the software is deployed.

In this topic, the term *software* can be either the Cloud Pak for Data control plane or a service.

Before you apply patches, ensure that:

- The machine from which you will run the commands meets the requirements described in [Preparing your installation node](#).
- You have the required information about your Red Hat OpenShift cluster, as described in [Collecting information about your cluster from your administrator](#).
- The Data Virtualization service instance is running correctly. All service pods must be running and ready.
- You use the same `repo.yaml` file that you used to apply Data Virtualization service patch v1.5.0.0-234.
- Obtain the [Cloud Pak for Data installation files](#) for Version 3.5.0.

Tip: For a list of all available options, enter the following command:

```
./cpd-cli patch --help
```

Procedure

To install patches:

1. Complete the appropriate task to apply patches on your environment:
 - [“Applying patches on clusters connected to the internet”](#) on page 6
 - [“Applying patches on air-gapped clusters”](#) on page 7

Applying patches on clusters connected to the internet

From your installation node:

1. Change to the directory where you placed the Cloud Pak for Data command-line interface and the `repo.yaml` file.
2. Log in to your Red Hat OpenShift cluster as a project administrator:

```
oc login OpenShift_URL:port
```

3. Run the following command to patch the service:

Important: If you are using the internal Red Hat OpenShift registry and you are using the default self-signed certificate, specify the `--insecure-skip-tls-verify` flag to prevent x509 errors.

```
./cpd-cli patch \  
--repo ./repo.yaml \  
--assembly dv \  
--namespace Project \  
--patch-name Patch_name \  

```



```
--transfer-image-to Registry_location \
--cluster-pull-prefix Registry_from_cluster \
--ask-push-registry-credentials \
--action transfer
```

Replace the following values:

| Variable | Replace with |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Project</i> | Specify the project (namespace) where the software that you want to patch is deployed. |
| <i>Patch_name</i> | Specify the name of the patch that you want to install. This information is included in the patch description. Value: v1.5.0.0-217 |
| <i>Registry_location</i> | The location to store the images in the registry server. Guidance for Red Hat OpenShift registry users: <ul style="list-style-type: none"> To determine the external route to the registry, run the appropriate command for your environment: <ul style="list-style-type: none"> OpenShift 3.11: <pre>\$(oc get route -n default docker-registry -o jsonpath="{.spec.host}")</pre> OpenShift 4.5: <pre>\$(oc get route -n openshift-image-registry grep image-registry awk '{print \$2}')</pre> |
| <i>Registry_from_cluster</i> | The location from which pods on the cluster can <i>pull</i> images. Guidance for Red Hat OpenShift registry users: <ul style="list-style-type: none"> This is the internal name of the registry service. The default service name is: <ul style="list-style-type: none"> OpenShift 3.11: <pre>docker-registry.default.svc:5000</pre> OpenShift 4.5: <pre>image-registry.openshift-image-registry.svc:5000</pre> |

4. Run the following command to patch the service instance:

```
./cpd-cli patch \
--repo ./repo.yaml \
--assembly dv \
--namespace Project \
--patch-name Patch_name \
--transfer-image-to Registry_location \
--cluster-pull-prefix Registry_from_cluster \
--ask-push-registry-credentials \
--action transfer \
--all-instances
```

Use the same values that you specified when you patched the service.

Applying patches on air-gapped clusters

From your installation node:

1. Change to the directory where you placed the Cloud Pak for Data command-line interface and the `repo.yaml` file.
2. Run the following command to download the patch to your local machine:

```
./cpd-cli patch \
--repo ./repo.yaml \
--assembly dv \
--version 1.5.0 \
--patch-name Patch_name \
--action download
```

Replace the following values:

| Variable | Replace with |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Patch_name</i> | Specify the name of the patch that you want to install. This information is included in the patch description. Value: v1.5.0.0-217 |

3. Transfer the following items to a machine that can connect to the cluster and to the registry server:
 - The `cpd-cli-workspace` directory. Ensure that the directory structure remains unchanged.
 - A copy of the Cloud Pak for Data installation command-line interface. Ensure that the command-line interface is compatible with the machine that you are transferring the files to and that it is the same version as the command-line interface that you ran in the preceding steps.
4. From the machine that can connect to the cluster, run the following command to apply the service patch:

Important: If you are using the internal Red Hat OpenShift registry:

- Do not specify the `--ask-pull-registry-credentials` parameter.
- If you are using the default self-signed certificate, specify the `--insecure-skip-tls-verify` flag to prevent x509 errors.

```
./cpd-cli patch \
--namespace Project \
--load-from Image_directory_location \
--assembly dv \
--patch-name Patch_name \
--transfer-image-to Registry_location \
--cluster-pull-prefix Registry_from_cluster \
--ask-push-registry-credentials \
--action push
```

Replace the following values:

| Variable | Replace with |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Project</i> | Specify the project (namespace) where the software that you want to patch is deployed. |
| <i>Image_directory_location</i> | The location of the <code>cpd-cli-workspace</code> directory. |
| <i>Patch_name</i> | Specify the name of the patch that you want to install. This information is included in the patch description. Value: v1.5.0.0-217 |
| <i>Registry_location</i> | The location to store the images in the registry server. <ul style="list-style-type: none"> • To determine the external route to the registry, run the appropriate command for your environment: |

| Variable | Replace with |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <ul style="list-style-type: none"> – OpenShift 3.11: <pre>\$(oc get route -n default docker-registry -o jsonpath="{.spec.host}")</pre> – OpenShift 4.5: <pre>\$(oc get route -n openshift-image-registry grep image-registry awk '{print \$2}')</pre> |
| <i>Registry_from_cluster</i> | <p>The location from which pods on the cluster can <i>pull</i> images.</p> <p>Guidance for Red Hat OpenShift registry users:</p> <ul style="list-style-type: none"> • This is the internal name of the registry service. The default service name is: <ul style="list-style-type: none"> – OpenShift 3.11: <pre>docker-registry.default.svc:5000</pre> – OpenShift 4.5: <pre>image-registry.openshift-image-registry.svc:5000</pre> |

5. Run the following command to download the service instance patch to your local machine:

```
./cpd-cli patch \
--repo ./repo.yaml \
--assembly dv \
--version 1.5.0 \
--patch-name Patch_name \
--action download \
--all-instances
```

Replace the following values:

| Variable | Replace with |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Patch_name</i> | <p>Specify the name of the patch that you want to install. This information is included in the patch description.</p> <p>Value: v1.5.0.0-217</p> |

6. Run the following command to patch the service instance:

```
./cpd-cli patch \
--assembly dv \
--namespace Project \
--load-from Image_directory_location \
--patch-name Patch_name \
--transfer-image-to Registry_location \
--cluster-pull-prefix Registry_from_cluster \
--all-instances \
--action push
```

Use the same values that you specified when you patched the service.

