CDP Private Cloud Data Services 1.4.1

CDP Private Cloud Data Services Management Console Release Notes

Date published: 2020-12-16
Date modified: 2022-11-18

https://docs.cloudera.com/

Legal Notice

Contents

What's new

This section lists major features and updates for the CDP Private Cloud Management Console service.

What's new November 18, 2022 (CDP Private Cloud Data Services 1.4.1)

New features in the 1.4.1 release of the CDP Private Cloud Management Console service.

New screen for editing external database configurations for Embedded Container Service (ECS) clusters.

You can now edit the following database configurations for external databases in ECS clusters. (If you have deployed using the OpenShift Container Platform (OCP), you can view these configurations, but not change them:

- Username
- Password
- Database Host
- Database Port
- Database Name

An option to test the connection is also available.

See Modifying d atabase properties.

June 22, 2022

New features in the 1.4.0 release of the CDP Private Cloud Management Console service.

There are no new features in the Management Console.

March 25, 2022

New features in the 1.3.4 release of the CDP Private Cloud Management Console service.

Terminology Changes

The following terminology has been changed:

- "Private Cloud Experiences" is now "Private Cloud Data Services"
- "Experiences Cluster" is now "Containerized Cluster"
- "Experiences Compute Service" is now "Embedded Container Service"

External database names, hosts, ports, usernames, and passwords are now exposed through an Environment Service configuration

External database names, hosts, ports, usernames and passwords are now exposed through an Environment Service configuration called \unifiedDbDetails. It can be fetched or updated using the get-environment-setting or set-environment-setting command of the CDP Environments CLI, respectively. When these configurations are set, any new values provided will be merged with existing values, with new values taking precedence.

When installing CDP Private Cloud Data Services, you can now select which Docker images to download

Prior to this change, all images were downloaded, regardless of which Data Services are deployed. With this change, you can select which images to download during the installation process. See

Rancher Kubernetes Engine (RKE) has been updated to version 1.21.8

Longhorn has been upgraded to version 1.2.2

Cloudera Manager now prevents ECS Server hosts from running workloads.

ECS Server nodes will now automatically be configured by Cloudera Manager to prevent workloads from running on them.

ECS hosts can now be configured to reserve then for workloads that require GPU drivers

You can configure this in the following ways:

- During ECS installation. After adding the GPU host(s) to Cloudera Manager but prior to creation of the ECS cluster, visit the Host Configuration page, select the "Dedicated GPU Node for Data Services" checkbox and Save the configuration. Repeat for all hosts on which the taint is desired. Then, proceed with installation via the Add Cluster wizard.
- During ECS upgrade. After upgrading Cloudera Manager (if applicable), set the host configuration as described above on one or more hosts in the ECS cluster. Then, proceed with upgrade via the Upgrade Cluster wizard.
- Independently of ECS install or upgrade. Set the host configuration as described above on one or more hosts in the ECS cluster. Redeploy the client configuration on the ECS cluster. Finally, run the "Reapply All Settings to Cluster" command on the ECS service, which can be found in the Service Actions menu.

SELinux is now supported for ECS clusters.

See Configuring a Containerized cluster with SELinux for the steps to configure SELinux.

FreeIPA is now supported for Kerberos configurations

See Configuring LDAP authentication for CDP Private Cloud

December 13, 2021

There are no new features in the 1.3.3 release of the CDP Private Cloud Management Console service.

November 8, 2021

There are no new features in the 1.3.2 release of the CDP Private Cloud Management Console service.

October 4, 2021

The 1.3.1 release of the CDP Private Cloud Management Console service provides the following new features:

Support for new resource roles

CDP Private Cloud Management Console introduces two new resource roles for managing the Cloudera Data Engineering (CDE) services: DEAdmin and DEUser.

- The DEAdmin role grants a CDP user/group the permission to create, delete and administer Cloudera Data Engineering services for a given CDP environment.
- The DEUser role grants a CDP user/group the permission to list and use Cloudera Data Engineering services for a given CDP environment.

For more information, see Understanding roles.

Support for CDP CLI

CDP Private Cloud Data Services enables you to configure the CDP client that gives you access to the CDP CLI tool. The CDP CLI allows you to perform the same actions as can be performed from the Management Console.

For more information, see CDP Private Cloud CLI.

Configuring alert rules

CDP Private Cloud Management Console enables you to define alert rules based on PromQL expressions. The alerts are automatically triggered when specific events occur in your CDP Private Cloud Data Services deployment.

For more information, see Configuring alert rules.

April 27, 2021

The 1.2 release of the CDP Private Cloud Management Console service provides the following new features:

Managing user groups

CDP Private Cloud Management Console allows you to manage user groups. As a CDP administrator, you can create a group and manage the group membership. You can also manage the roles and resources assigned to the group.

For more information, see Understanding CDP groups.

Uploading multiple types of TLS certificates to the CDP trust store

CDP Private Cloud Management Console enables you to update the TLS certificates that CDP uses to make secure connections with different types of services and workloads such as external databases, external vaults, Docker registries, services used during CDP Private Cloud installation and runtime, and so on.

For more information, see Update TLS certificates.

Configuring alert receivers

CDP Private Cloud Management Console enables you to configure alert receivers to trigger automated system-specific event notifications through external services such as emails, Slack channel messages, webhook notifications, or PagerDuty messages.

For more information, see Configuring alert receivers.

Updated options for collecting diagnostic data

You can collect and download CDP Private Cloud diagnostic data for different components and services by specifying various criteria in the Collect and Send Diagnostic Data pop-up window.

For more information, see Private Cloud Monitoring and Alerts.

December 16, 2020

The 1.1 release of the CDP Private Cloud Management Console service provides the following new features:

Support for Red Hat OpenShift version 4.5

This release of CDP Private Cloud now supports Red Hat OpenShift Container Platform version 4.5.x or later.

For more information, see OpenShift Container Platform requirements.

Viewing the Platform Management Dashboard

You can get insights into the resource utilization and health of the CDP Private Cloud Management Console components and the active environments through the new Dashboard page.

For more information, see Management Console Dashboard.

Updating TLS certificates

You can now update TLS certificates that the Management Console uses for secure connections with an external database, an external vault, and the Cloudera Manager associated with the CDP Private Cloud base cluster.

For more information, see the following:

- Update a TLS certificate for a secure database connection
- Update a TLS certificate for a secure vault connection
- Update a TLS certificate for a secure Cloudera Manager connection

Support for OpenLDAP

In addition to authenticating users through Microsoft Active Directory LDAP, you can now use OpenLDAP for authenticating users.

For more information, see User Management.

Importing users in bulk

You can now perform a bulk import of users to CDP Private Cloud and assign them rights and roles. This improves the experience from the previous version where each user was required to log in at least once before access rights could be configured.

For more information, see Importing or uploading users.

August 17, 2020

This is the first release of the CDP Private Cloud Management Console service.

The Management Console service provides the following capabilities:

Registering environments

In a CDP Private Cloud deployment, an environment represents that the association between a Data Lake and multiple compute resources using which you can provision and manage workloads for services such as Data Warehouse and Machine Learning. You can register as many environments as you require.

For more information, see Private Cloud Environments.

Managing users

The CDP Private Cloud Management Console service allows you to perform different type of user management tasks such as creating and onboarding different types of users, configuring identity providers, adding users, assigning roles to users, generating access keys, and removing roles assigned to users.

For more information, see Private Cloud User Management.

Accessing resource utilization and health monitoring dashboards

The CDP Private Cloud Management Console service contains dashboards that help you track the consumption of compute resources and monitor health information. The resource utilization dashboard provides an overview of the resources consumed by the CDP workloads while the monitoring dashboards provide health information for both the control plane and specific environments.

For more information, see Private Cloud Resource Utilization and Private Cloud Monitoring and Alerts.

Known issues for the CDP Private Cloud Data Services Management Console

This section lists known issues that you might run into while using the CDP Private Cloud Management Console service.

Known Issues in Management Console 1.4.1

INSIGHT-2469: COE Insight from case 922848: Not able to connect to bit bucket

After installing CML on an ECS cluster, users were not able to connect the internal bitbucket repo.

Workaround:

In this case the MTU of the ECS virtual network interfaces were larger than that of host external interface, which may cause the network requests from ECS containers to get truncated.

The Container Network Interface (CNI) is a framework for dynamically configuring networking resources. CNI integrates smoothly with Kubenetes to enable the use of an overlay or underlay network to automatically configure the network between pods. Cloudera ECS uses Calico as the CNI network provider.

The MTU of the pods' virtual network interface can be seen by running the ifconfig command.

The default MTU of the virtual network interfaces is 1450.

The MTU setting of the virtual interfaces is stored as a configmap in the kube-system namespace. To modify the MTU, edit the rke2-canal-config configmap.

```
$ /var/lib/rancher/rke2/bin/kubectl --kubeconfig
 /etc/rancher/rke2/rke2.yaml --namespace kube-system
 edit cm rke2-canal-config
```

Find the veth_mtu parameter in the YAML content. Modify the default value of 1450 to the required MTU size.

Next, restart the rke2-canal pods from the kube-system namespace. There will be rke2-canal pods for each ECS node.

After the pods are restarted, all subsequent new pods will use the new MTU setting. However, existing pods that are already running will remain on the old MTU setting. Restart all of the pods to apply the new MTU setting.

OPSX-1405: Able to create multiple CDP PVC Environments with the same name

If two users try to create an environment with the same name at the same time, it might result in an unusable environment.

Delete the environment and try again with only one user trying to create the environment.

OPSX-1412: Creating a new environment through the CDP CLI reports intermittently that "Environment name is not unique" even though it is unique

When multiple users try to create the same environment at the same time or use automation to create an environment with retries, create environment may fail on collision with a previous request to create an environment.

Delete the existing environment, wait 5 minutes, and try again.

OPSX-2062: Platform not shown on the Compute Cluster UI tab

On CDP Private Console UI in ECS, when listing the compute clusters, the Platform field is empty (null) instead of displaying RKE as the Platform.

OPSX-3323: Custom Log Redaction | String is not getting redacted from all places in diagnostic bundle

Custom redaction rule for URLs does not work.

Cloudera Data Engineering service fails to start due to Ozone

If the Ozone service is missing, misconfigured, or having other issues when an Environment is registered in the Management Console, CDE fails to start.

Workaround:

1. Correct the issues with the Ozone service.
2. Ensure that Ozone is running as expected.
3. Re-create the environment.
4. Create a new Cloudera Data Engineering service.

Known Issues in Management Console 1.4.0

Cloudera Data Engineering service fails to start due to Ozone

If the Ozone service is missing, misconfigured, or having other issues when an Environment is registered in the Management Console, CDE fails to start.

Workaround:

1. Correct the issues with the Ozone service.
2. Ensure that Ozone is running as expected.
3. Re-create the environment.
4. Create a new Cloudera Data Engineering service.

OPSX-2062: Platform not shown on the Compute Cluster UI tab

On CDP Private Console UI in ECS, when listing the compute clusters, the Platform field is empty (null) instead of displaying RKE as the Platform.

None.

OPSX-2713: ECS Installation: Failed to perform First Run of services.

If an issue is encountered during the Install Control Plane step of Containerized Cluster First Run, installation will be re-attempted infinitely rather than the command failing.

Since the control plane is installed and uninstalled in a continuous cycle, it is often possible to address the cause of the failure while the command is still running, at which point the next attempted installation should succeed. If this is not successful, abort the First Run command, delete the Containerized Cluster, address the cause of the failure, and retry from the beginning of the Add Cluster wizard. Any nodes that are re-used must be cleaned before re-attempting installation.

OPSX-735: Kerberos service should handle CM downtime

The Cloudera Manager Server in the base cluster must be running in order to generate Kerberos principals for Private Cloud. If there is downtime, you may observe Kerberos-related errors.

Resolve downtime on Cloudera Manager. If you encountered Kerberos errors, you can retry the operation (such as retrying creation of the Virtual Warehouse).

OPSX-1405: Able to create multiple CDP PVC Environments with the same name

If two users try to create an environment with the same name at the same time, it might result in an unusable environment.

Delete the environment and try again with only one user trying to create the environment.

OPSX-1412: Creating a new environment through the CDP CLI intermittently reports that, "Environment name is not unique" even though it is unique

When multiple users try to create the same environment at the same time or use automation to create an environment with retries, create environment may fail on collision with a previous request to create an environment.

Delete the existing environment, wait 5 minutes, and try again.

OPSX-2484: FileAlreadyExistsException during timestamp filtering

The timestamp filtering may result in FileAlreadyExistsException when there is a file with same name already existing in the tmp directory.

OPSX-2772: For Account Administrator user, update roles functionality should be disabled

An Account Administrator user holds the biggest set of privileges, and is not allowed to modify via current UI, even user try to modify permissions system doesn't support changing for account administrator.

<JIRA>

Known Issues for Management Console 1.3.x and lower

Recover fast in case of a Node failures with ECS HA

When a node is deleted from cloud or made unavailable, it is observed that the it takes more than two minutes until the pods were rescheduled on another node.

It takes some time for the nodes to recover. Failure detection and pod-transitioning are not instantaneous.

Cloudera Manager 7.6.1 is not compatible with CDP Private Cloud Data Servicesversion 1.3.4.

You must use Cloudera Manager version 7.5.5 with this release.

CDP Private Cloud Data Services ECS Installation: Failed to perform First Run of services.

If an issue is encountered during the Install Control Plane step of Containerized Cluster First Run, installation will be re-attempted infinitely rather than the command failing.

Workaround: Since the control plane is installed and uninstalled in a continuous cycle, it is often possible to address the cause of the failure while the command is still running, at which point the next attempted installation should succeed. If this is not successful, abort the First Run command, delete the Containerized Cluster, address the cause of the failure, and retry from the beginning of the Add Cluster wizard. Any nodes that are re-used must be cleaned before re-attempting installation.

Environment creation through the CDP CLI fails when the base cluster includes Ozone

Problem: Attempt to create an environment using the CDP command-line interface fails in a CDP Private Cloud Data Services deployment when the Private Cloud Base cluster is in a degraded state and includes Ozone service.

Workaround: Stopping the Ozone service temporarily in the Private Cloud Base cluster during environment creation prevents the control plane from using Ozone as a logging destination, and avoids this issue.

Filtering the diagnostic data by time range might result in a FileAlreadyExistsException

Problem:Filtering the collected diagnostic data might result in a FileAlreadyExistsException if the /tmp directory already contains a file by that name.

There is currently no workaround for this issue.

Full cluster name does not display in the Register Environment Wizard

None

Kerberos service does not always handle Cloudera Manager downtime

Problem: The Cloudera Manager Server in the base cluster must be running to generate Kerberos principals for CDP Private Cloud. If there is downtime, you might observe Kerberos-related errors.

Resolve downtime issues on Cloudera Manager. If you encounter Kerberos errors, you can retry the concerned operation such as creating Virtual Warehouses.

Management Console allows registration of two environments of the same name

Problem: If two users attempt to register environments of the same name at the same time, this might result in an unusable environment.

Delete the environment and ensure that only one user attempts to register a new environment.

Not all images are pushed during upgrade

A retry of a failed upgrade intermittently fails at the Copy Images to Docker Registry step due to images not being found locally.

The failed images can be loaded manually (with a docker load), and the upgrade resumed. To identify which images need to be loaded take a look at the stderr file. The downloaded images are present in the Docker Data Directory.

The Environments page on the Management Console UI for an environment in a deployment using ECS does not display the platform name

Problem: When you view the details of an environment using the Management Console UI in a CDP Private Cloud Data Services deployment using ECS, the Platform field appears blank.

Use the relevant CDP CLI command from the environments module to view the required details.

Updating user roles for the admin user does not update privileges

In the Management Console, changing roles on the User Management page does not change privileges of the admin user.

None

Upgrade applies values that cannot be patched

If the size of a persistent volume claim in a Containerized Cluster is manually modified, subsequent upgrades of the cluster will fail.

Incorrect warning about stale Kerberos client configurations

If Cloudera Manager is configured to manage krb5.conf, ECS clusters may display a warning that they have stale Kerberos client configurations. Clicking on the warning may show an "Access denied" error.

No action is needed. ECS clusters do not require Kerberos client configurations to be deployed on those hosts.

Vault becomes sealed

If a host in an ECS cluster fails or restarts, the Vault may have become sealed. (You may see a Health Test alert in Cloudera Manager for the ECS service stating Vault instance is sealed.)

Unseal the Vault. In the Cloudera Manager Admin Console, go to the ECS service and click ActionsUnseal .

Fixed Issues for the CDP Private Cloud Data Services Management Console

This section lists the issues that have been fixed since the last release of the CDP Private Cloud Management Console service.

Fixed Issues in Management Console 1.4.0

OPSX-2697 Not all images are pushed in upgrade

Fixed the issue of a retry of an upgrade failing at the Copy Images to Docker Registry step due to images not being found locally.

Fixed Issues in Management Console 1.3.x

CVE-2021-44228 (Apache Log4j 2 vulnerability) has been addressed in CDW on CDP Private Cloud Management Console version 1.4.0

Log4j 2 has been upgraded to version 2.17.

Fix copy-docker-template

Fixed the issue of a retry of only the Push Images to Docker Registry failing due to the image not being available locally.

NFS provisioner fails on cluster with more than ~10 nodes

Fixed longhorn nfs_provisioner failing to start on clusters with more than 10 nodes.

Longhorn for Kubernetes is upgraded to version 1.2.x

Longhorn has been upgraded from version 1.1.2 to 1.2.x

ECS High Availability fails during installation

Fixed an issue where selecting multiple ECS Server hosts during install would randomly result in a installation failure.