Cloudera Data Visualization 7.2.1

Managing Jobs

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CLOUDERA

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Contents

Managing jobs

Cloudera Data Visualization enables you to manage jobs, scheduled jobs, and schedule intervals.

About this task

Note: Users without administrative privileges can only edit jobs created by them.

Procedure

1. Click the Gear icon on the main navigation bar to open the Administration menu.
2. Click Job Status to get to the Jobs interface.
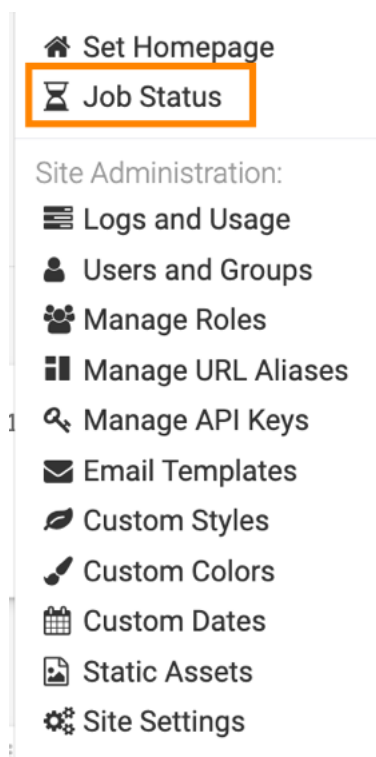
Results

The Jobs interface appears, which has three main tabs:

- Job Logs
- Scheduled Jobs
- Manage Schedule Intervals

Related Information

Job log

Scheduled jobs

Manage schedule intervals

Creating new email jobs

Cloudera Data Visualization supports three type of email jobs:

Related Information
Immediate email
Schedule-based email
Threshold-based email

Immediate email

You can share existing visuals with other users on an ad-hoc basis.

About this task

Follow these steps to email a visual, a sheet, or a dashboard of your choice. You can accomplish this task either from Edit mode or from View mode.

Before you begin
You have an email template available for use. For instructions, see *Creating new email templates*.

Procedure

1. Open the visual or dashboard that you want to include in the email.

   This example walks you through emailing a visual.

2. Click the (ellipsis) icon in the upper right corner to open the supplemental menu, and select Email from the drop-down menu.

   The Email modal appears.

3. Select the Email now option.

Email Visual

◉ Email now   ○ 📅 Schedule Email   ○ Email based on threshold

Email Detail

To*

CC

Error Notification
Emails ⓘ

Reply To ⓘ   cloudera.viztest@gmail.com

From   vizapps_admin <cloudera.viztest@gmail.com>

Subject*   [Cloudera Data Visualization]

Email Template   Default Email Template   ⌄
                    Preview Email Template

Message

                    Show Job Parameters

Page Parameters ⓘ   ◉ Include page parameters   ○ Do not include page parameters

URL alias   ☐ Use URL Alias

Attach ⓘ   ☑ Embedded Image   ☐ PNG   ☐ PDF   ☐ XLSX   ☐ CSV

Go to Jobs page to view status   CANCEL   ✉ SEND

4. Fill in the email details.

Fields marked with an asterisk are mandatory.

- To – Enter the email addresses of the primary recipients of the message.
- CC – Enter the email addresses of other recipients.
- Error Notification Emails – Enter an email address where you want to receive data visualization error messages.
- Reply To – Enter an email address if you would like responses to go to a different email address than the sender.
- From – You can set the value of this field in Site Settings.
- Subject – You can change the default title of the email.

Note:

The subject is the prefix you specified when enabling email, with the title of the visual added. The default prefix is [Cloudera Data Visualization].

5. Under Email Template, leave the Default Email Template selected.

6. If you want to see how the template looks, click Preview Email Template.

Note: Only users with administrative privileges can create and manage email templates. For more information, see *Creating new email templates*.

7. Enter the text of the email in the Message field.

8. For visuals that have parameterized fields on their shelves, in Page Parameters you can choose:

- Include page parameters (default)
- Do not include page parameters

9. You can add a short URL in the email.

You can create a new alias or use an existing one that you created earlier.

Important:

Add the Current Sheet Link to the message, otherwise, the URL alias will not appear in the email.

a. Click the Use URL Alias checkbox.
b. Choose an existing URL alias or create a new one.
c. Click Show Job Parameters under the Message textbox.
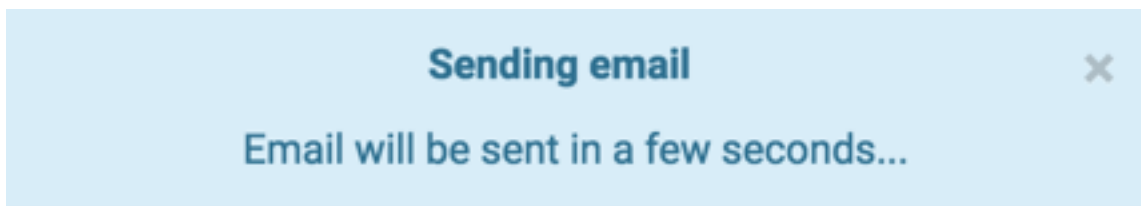**d.** Click Current Sheet Link.

The <<app_url>> appears in the message.

10. For Attach options, decide whether you want to embed the image in the email and select what format to use:
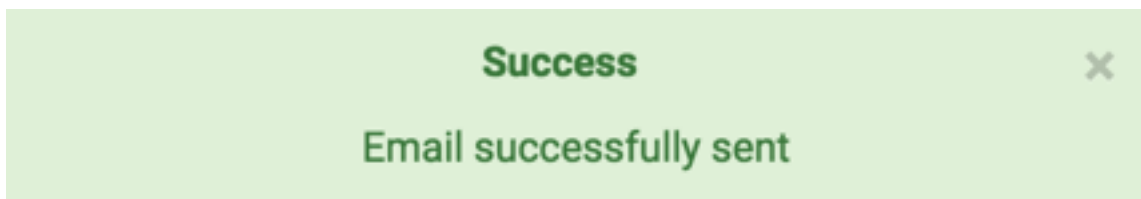
- Embedded Image (default)
- PNG
- PDF
- XLSX
- CSV

11. Click SEND.

The system notifies the user that an email is being prepared.

After the operation succeeds, you get the following message:

What to do next

You may choose to see the list of pending emails, cancel running jobs, or re-send an email. Click the link Go to Jobs page to view status on the UI for details.

For more information, see *Managing jobs*.

Related Information
Creating new email templates
Managing jobs

Schedule-based email

You can schedule regular emails of visuals, sheets, and dashboards. Scheduled jobs run on a schedule, or are triggered by measures on the dataset reaching a defined threshold.

Before you begin
Before you schedule an email, check the Enable scheduled jobs option in Site Settings Jobs . For more information, see *Enabling scheduled jobs* in the Site Settings documentation.

About this task

Follow these steps to schedule sending emails of visual, sheet, or dashboard. You can accomplished this either in Edit or in View mode.

Before you begin
You have an email template available for use. For instructions, see *Creating new email templates*.

Procedure

1. Open the visual or dashboard that you want to include in the email.

This example walks you through emailing a visual.

2. Click the (ellipsis) icon in the upper right corner to open the supplemental menu, and select Email from the drop-down menu.

The Email modal appears.

3. Select the Schedule Email option.

Email Visual

○ Email now   ⦿ 🗓 Schedule Email   ○ Email based on threshold

Email Detail

Job Name*

Repeat   Hourly   ⌄

Every [hour] at [15] minute(s) past the hour UTC
Local Time: 25 Apr 2023 11:46 Central (UTC+0200)
UTC Time: 25 Apr 2023 09:46 UTC

To*

CC

Error Notification
Emails ⓘ

Reply To ⓘ   cloudera.viztest@gmail.com

From   vizapps_admin <cloudera.viztest@gmail.com>

Subject*   [Cloudera Data Visualization]

Email Template   Default Email Template   ⌄
                   Preview Email Template

Message

                   Show Job Parameters

Page Parameters ⓘ   ⦿ Include page parameters   ○ Do not include page parameters

URL alias   ☐ Use URL Alias

Attach ⓘ   ☑ Embedded Image   ☐ PNG   ☐ PDF   ☐ XLSX   ☐ CSV

Go to Jobs page to view status   CANCEL   SAVE

4. In the Job Name text box of the Email Detail tab, enter the name of the scheduled job.

5. In the Repeat field, select an existing schedule interval:

- Hourly (default)
- Daily
- Every Weekday
- Weekly
- Monthly
- Quarterly
- or any existing custom schedule.

> **Note:**
>
> You can also select Create New Schedule. This option is available to Admin users only.

6. Fill in the email details:

- In the To text box, enter the email addresses of the primary recipients of the message.
- In the CC text box, enter the valid email addresses of other recipients.
- In the Error Notification Emails text box, enter an email address where error notifications will be sent to.
- In the Reply To text box, add an email addres if you want responses to go to a different email address than the sender.
- The value of the From field is configured on the Site Settings interface.
- In the Subject text box, you can change the title of the email.

> **Note:**
>
> The subject is the prefix you specified when enabling email, with the title of the visual added. The default prefix is [Cloudera Data Visualization].

7. Under Email Template, leave Default Email Template selected.

8. If you want to see how the template looks, click Preview Email Template.

> **Note:** Only users with administrative privileges can create and manage email templates. For more information, see *Creating new email templates*.

9. Enter the text of the email in the Message field.

10. For visuals that have parametrized fields on their shelves, in the Page Parameters you can chose one of these:

- Include page parameters (default)
- Do not include page parameters, which includes default picklist parameters.

11. You can add a short URL in the email.

You can create a new alias or use an existing one that you created earlier.

> **Important:**
>
> Add the Current Sheet Link to the message, otherwise, the URL alias will not appear in the email.

a. Click the Use URL Alias checkbox.

b. Choose an existing URL alias or create a new one.

c. Click Show Job Parameters under the Message textbox.

d. Click Current Sheet Link.

The <<app_url>> appears in the message.

12. For Attach options, choose one of these:

- Embedded Image (default)
- PNG
- PDF
- XLSX
- CSV

13. Click SAVE.

The system notifies you that the schedule was created successfully.

Related Information

Enabling scheduled jobs

Creating new email templates

Threshold-based email

You can set up email notifications when a specified triggering condition occurs.

About this task

Follow these steps to define triggering conditions and triggered emails for a visual, a sheet, or a dashboard. You can accomplish this either in Edit or in View mode.

Before you begin

You have an email template available for use. For instructions, see *Creating new email templates*.

Procedure

1. Open the visual you want to include in the email.

2. Click the (ellipsis) icon in the upper right corner to open the supplemental menu, and select Email from the drop-down menu.

The Email modal appears.

3. Select the Email based on threshold option.

Email Visual

○ Email now   ○ 📅 Schedule Email   ⦿ Email based on threshold

Email Detail   Set Threshold

To*   [   ]

CC   [   ]

Error Notification   [   ]
Emails ⓘ

Reply To ⓘ   [cloudera.viztest@gmail.com   ]

From   vizapps_admin <cloudera.viztest@gmail.com>

Subject*   [[Cloudera Data Visualization]   ]

Email Template   [Default Email Template   ⌄]
                        Preview Email Template

Message   [   ]
                        [   ]
                        [   ]
                        Show Job Parameters

Page Parameters ⓘ   ⦿ Include page parameters   ○ Do not include page parameters

URL alias   ☐ Use URL Alias

Attach ⓘ   ☑ Embedded Image   ☐ PNG   ☐ PDF   ☐ XLSX   ☐ CSV

Go to Jobs page to view status   [CANCEL] [SAVE]

4. Fill in the email details.

Fields marked with an asterisk are mandatory.

- To – Enter the email addresses of the primary recipients of the message.
- CC – Enter the email addresses of other recipients.
- Error Notification Emails – Enter an email address where you want to receive data visualization error messages.
- Reply To – Enter an email address if you would like responses to go to a different email address than the sender.
- From – You can set the value of this field in Site Settings.
- Subject – You can change the default title of the email.

> **Note:**
> The subject is the prefix you specified when enabling email, with the title of the visual added. The default prefix is [Cloudera Data Visualization].

5. Under Email Template, leave the Default Email Template selected.

6. If you want to see how the template looks, click Preview Email Template.

> **Note:** Only users with administrative privileges can create and manage email templates. For more information, see *Creating new email templates*.

7. Enter the text of the email in the Message field.

8. For visuals that have parameterized fields on their shelves, in Page Parameters you can choose:

- Include page parameters (default)
- Do not include page parameters

9. You can add a short URL in the email.

You can create a new alias or use an existing one that you created earlier.

> **Important:**
> Add the Current Sheet Link to the message, otherwise, the URL alias will not appear in the email.

- **a.** Click the Use URL Alias checkbox.
- **b.** Choose an existing URL alias or create a new one.
- **c.** Click Show Job Parameters under the Message textbox.
- **d.** Click Current Sheet Link.

The <<app_url>> appears in the message.

10. For Attach options, decide whether you want to embed the image in the email and select what format to use:

- Embedded Image (default)
- PNG
- PDF
- XLSX
- CSV

11. On the Set Threshold tab, perform the following actions to create a threshold definition and a new table visual that specifies the trigger values.

Alternatively, instead of defining a new threshold, you can use an existing table visual to specify threshold values, and add the ID of that visual to the Visual ID field.

Email Visual

○ Email now   ○ 📅 Schedule Email   ◉ Email based on threshold

Email Detail   **Set Threshold**

The threshold will be based on the value in a table visual [CREATE THRESHOLD]

Job Name*	[ ]
Visual ID*	[ ] [SEE VISUAL] ID of a table visual: first measure will be assessed
Trigger	◉ Threshold met ○ Value changed since last assessment
Value	[≥ ⌄] [0] ⊖ AND [+ ADD CONDITION]
Assess Trigger	[Hourly ⌄] Every [hour] at [15] minute(s) past the hour UTC Local Time: 25 Apr 2023 11:46 Central (UTC+0200) UTC Time: 25 Apr 2023 09:46 UTC
Send Email Limit	[Once a half hour ⌄]

Go to Jobs page to view status   [CANCEL] [SAVE]

    a. Under Job Name, enter the name of the new trigger.

    b. Click Create Threshold.

This creates a new table visual based on all the fields of the dataset, and the visual opens in a new tab of your browser. Note that the ID for the new visual appears in the URL address, and has the following format: https://ip_address/arc/apps/builder/trigger_id

12. Make changes to the visual so that the field that contains the triggering measurements is the first field on the Measures shelf, and sort/filter results to ensure that the triggering measurement is in the first row.

13. Save the new table visual.

Back on the Email Visual/Email Dashboard modal, in the Set Threshold tab, you can see that the Visual ID field holds the ID of the new trigger table visual. In this example, it is 2148.

14. Under Trigger, select one of the options:

- Threshold met: triggers an email when the first measure of the first row in the trigger visual satisfies the conditional expression
- Value changed since last assessment: triggers an email when the change in the first measure of the first row after the last assessment satisfies the conditional expression

15. For the triggering Value, adjust the logical operand (one of <, >, #, #, or =) and the number.

In this example the expression # 1000 is used.

You can add multiple trigger conditions by clicking the + ADD CONDITION button.

> **Note:** If you set multiple conditions, all of them need to be true to trigger the job.

16. For Assess Trigger, select an existing schedule interval:

- Hourly (default)
- Daily
- Every Weekday
- Weekly
- Monthly
- Quarterly
- or any existing custom schedule

You can also select Create New Schedule. This option is available to Admin users only.

17. The Send Email Limit gives you the option of sending only the first email in circumstances when a triggering event occurs multiple times within the specified time interval.

In this example, Once a day has been selected. This means that if the trigger satisfies the conditional expression, it may not be sent if an earlier one was sent in the preceding 24 hours.

The options are:

- When trigger occurs (which does not suppress any emails)
- Once a half hour (default)
- Once an hour
- Once a day
- Once a week
- Every 2 weeks
- Once a month

18. Click SAVE.

The system notifies you that the trigger has been created successfully.

Related Information

Creating new email templates

Rerunning jobs

Cloudera Data Visualization allows you to rerun previously defined jobs.

Procedure

1. In the Jobs interface, select the jobs to rerun. To rerun all jobs, click the checkbox on the right side of the list header.

2. Near the top of the page, click Run Now.

A brief Success message appears, which lists the schedules of these jobs. Note that the schedules are distinct from the jobs themselves, and have a different ID.

Note that the Jobs Log refreshes to show the new status of the selected jobs, either as Running or Pending.

Pending jobs do not show Start Time or Total Run Time.

3. Alternatively, you can re-run jobs by clicking the RUN NOW button that corresponds to the job in the jobs list.

Deleting jobs

Cloudera Data Visualization allows you to delete existing jobs that you do not need any more.

Procedure

1. In the Jobs interface, select the jobs to delete. To delete all jobs, click the checkbox on the right side of the list header.

2. Near the top of the page, click DELETE SELECTED.

3. Click DELETE in the confirmation modal.

The modal lists the IDs and names of the logs you selected for deletion.

Pausing jobs

Cloudera Data Visualization allows you to suspend scheduled jobs.

Procedure

In the Scheduled Jobs interface, choose the job, and click the corresponding PAUSE button.

To pause more than one job, click the corresponding checkboxes, and then click PAUSE at the top of the interface. If you want to pause all jobs, click the checkbox on the right side of the list header first.

A notification that the job is paused appears briefly.

Note that the Status of the job changes to paused and the PAUSE button is replaced with RESUME.

Resuming paused jobs

Cloudera Data Visualization allows you to resume suspended scheduled jobs.

Procedure

In the Scheduled Jobs interface, choose the job, and click the corresponding RESUME button.

To resume more than one job, click the corresponding checkboxes, and then click RESUME at the top of the interface. If you want to resume all jobs, click the checkbox on the right side of the list header first.

A notification that the job or jobs are resumed appears briefly.

Note that the Status of the job changes to active and the RESUME button is replaced with PAUSE.

Changing the owner of a job

Cloudera Data Visualization allows existing job owners and system administrators to change the owner of an existing job. This can be helpful when jobs from deleted users have unassigned owners, and are not be able to run until the owner is changed.

Procedure

1. In the Job Logs or the Scheduled Jobs interface, click the pencil icon next to the owner's name.

The Change Job Owner modal window appears.

2. Select a name for the New job owner from the list of available users.

You can also mark the checkbox below to apply the change to all jobs owned by the current owner.
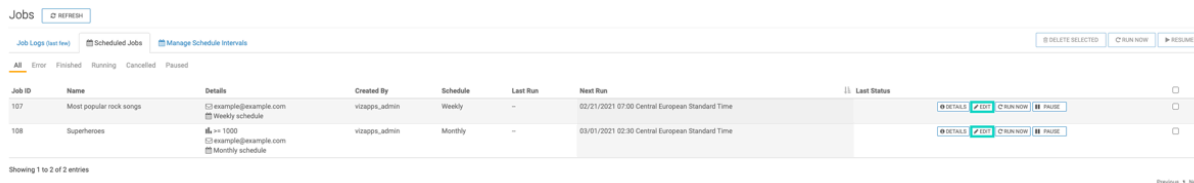
3. Click SAVE.

Editing details of scheduled jobs

Cloudera Data Visualization allows you to update existing scheduled jobs.

Procedure

1. In the Scheduled Jobs interface, select the job, and click the corresponding EDIT button.

The Edit Job modal window appears.

Note: The type of the job and type of attachment cannot be changed, and only certain fields can be edited.

If you select a data extract related job, the Edit Data Extract modal window appears. For more information on changing data extract details, see *Editing a Data Extract*.

2. Make the required changes.

The following fields can be edited:

Schedule Email

- Job Name
- Repeat
- To
- CC
- Subject
- Email Template
- Error Notification Emails
- Message
- Page Parameters

Emails based on threshold

All of the above on the Email Detail tab and all fields on the Set Threshold tab.

3. When you are ready with the updates, click SAVE.

Deleting scheduled jobs

Cloudera Data Visualization allows you to delete existing scheduled jobs that you do not need any more.

Procedure

1. In the Scheduled Jobs interface, select the job you want to delete. To delete all jobs, click the checkbox on the right side of the list header.

2. Near the top of the page, click DELETE SELECTED.

3. Click DELETE in the confirmation modal.

The modal lists the IDs and names of the jobs you selected for deletion.

Managing schedule intervals

Cloudera Data Visualization provides a Manage Schedule Intervals interface that lists all custom time intervals and allows for various actions to work with your schedule intervals.

About this task

Note:

This feature is only available to users with administrative privileges.

1. The REFRESH button allows you to update the log information.
2. Clicking DELETE SELECTED performs a delete on all selected intervals. For more information, see Deleting schedule intervals on page 28.
3. CREATE NEW SCHEDULE enables you to specify a custom schedule. For more information, see Creating new schedules on page 23.
4. Interval ID
5. Name of the schedule interval
6. Interval describes the interval parameters, such as Every hour at 15 minutes past the hour, or Every month on 1 at 1:30.
7. Dependent Jobs that lists the scheduled jobs, if any, that use the schedule.
8. Next Run Time gives you the expected time for the next time the schedule is deployed, in local time format.
9. The Pencil icon enables you to change the properties of existing schedules. For more information, see Changing schedule intervals on page 27.
10. The checkbox on the header row and on each interval entry entry selects the jobs for bulk deletion. For more information, see Deleting schedule intervals on page 28.

Creating new schedules

Cloudera Data Visualization allows you to create custom schedules for your scheduled jobs.

About this task

Note:

This feature is only available to users with administrative privileges.

To create a new schedule that can be used by one or more scheduled jobs, follow the below steps.

Incidentally, you can also create a custom schedule interval when creating new scheduled emails. These intervals appear in the Manage Schedule Intervals interface, and may be re-used for other jobs too.

Procedure

1. In the Manage Schedule Intervals interface, click CREATE NEW SCHEDULE.
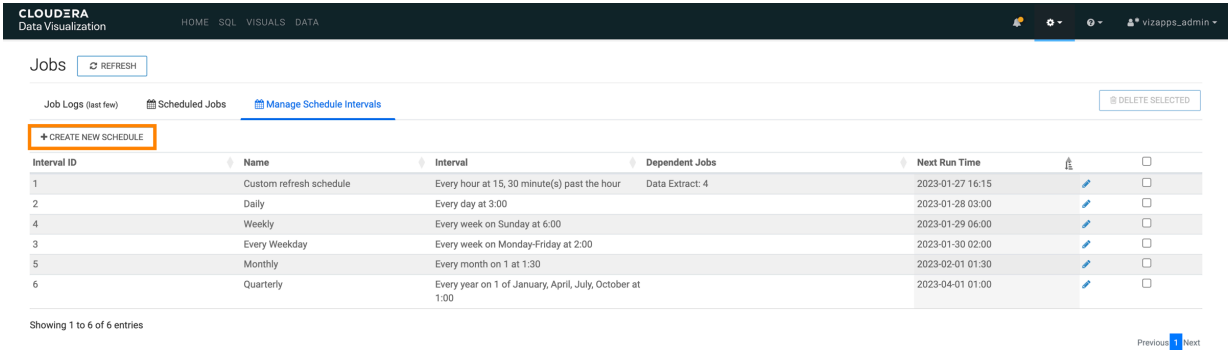
A Create New Schedule Interval modal appears.

2. Specify the parameters of the schedule:

- In Interval Name field, enter the name for the new schedule interval. In this example, My Custom Interval has been used.
- When choosing the date/time of the run, remember that time format is in UTC. For reference, the local time format designation is shown. In this example, local time is in PDT format, equivalent to UTC-0700.

  - In the first selectable field, choose the largest time component. By default, this is year.

  - The second selectable field is for the day of the month. You can choose multiple days by clicking on them, or deselect by clicking a second time.

  - In the third field, set the hour and the minute components of the schedule. As with previous fields, multiple selections are possible.

Note: The number of selectors depends on the granularity of the time interval specified by the first choice.

3. Click CREATE to save the new schedule.

Results

A brief success message appears on your screen, and the new interval appears in the Manage Schedule Intervals interface.

Changing schedule intervals

Cloudera Data Visualization allows you to change custom the schedule intervals that you defined for your scheduled jobs.

About this task

Note:

This feature is only available to users with administrative privileges.

To edit an existing schedule, follow these steps:

Procedure

1. In the Manage Schedule Intervals interface, click the Pencil icon that corresponds to the schedule interval you are changing.

The Edit Schedule Interval modal appears.

2. Adjust the time selection according to your needs.

In this example, the time selection is adjusted to compensate for the differernce of 7 hours between UTC and local time (PDT). Because local time is 7 hour behind UTC, you must add 7 in this interface to achieve the intended notification time of 04:00 and 16:00 local time (PDT). So, change the hour parameter from 4 and 16 to 11 and 23.

3. Click SAVE.

Results

The updated interval appears in the Manage Schedule Intervals interface.

Deleting schedule intervals

Cloudera Data Visualization allows you to delete existing schedule intervals that you do not need any more.

About this task

Note:

This feature is only available to users with administrative privileges.

To delete one or more schedule intervals, follow these steps:

Procedure

1. In the Manage Schedule Intervals interface, select the intervals to delete. To delete all intervals, click the checkbox on the right side of the list header.

2. Near the top of the page, click DELETE SELECTED.

3. Click DELETE in the confirmation modal.

The modal lists the IDs and names of the intervals you selected for deletion.