Cloudera Data Science Workbench

Configuring Quotas

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Enabling Default Quotas for all CDSW Users

This topic describes how to configure CPU, GPU, and memory quotas for users on a CDSW deployment. You can set default quotas for each user on the deployment as well as overriding custom quotas for specific users who might require more resources. Quotas can be enabled from the Site Administration panel.

Before you begin
Required Role: Site Administrator

About this task
To enable CPU, GPU, and memory quotas for users on your CDSW deployment:

Procedure

1. Log into Cloudera Data Science Workbench with site administrator privileges.
2. Click Admin Quotas .
3. Switch the toggle to ON. This applies a default quota of 2 vCPU, 8 GB memory to each user on the deployment.

   If your deployment was provisioned with GPUs, a default quota of 0 GPU per user will apply. If you want users to have access to GPUs, you must modify the default quotas as described in the next step.
4. If you want to change the default quotas, click on Default (per user). CDSW displays the Edit default quota dialog box.
5. Enter the CPU, Memory, and GPU quota values that should apply to all users of the deployment.
6. Click Update.
   Enabling quotas will only affect new workloads. If users have already scheduled workloads that exceed the new quota limits, those will continue to run uninterrupted. If a user is over their limit, they will not be able to schedule any more workloads.

Enabling Custom Quotas for Specific Users

This section shows you how to enable custom quotas for specific users on your CDSW deployment. You can use this feature to help certain users who regularly require more resources than the defaults set in the previous section. Any custom values set here will override the default quotas.

Before you begin
Required Role: Site Administrator

About this task
To enable custom quotas:

Procedure

1. Log into Cloudera Data Science Workbench with site administrator privileges.
2. Click Admin Quotas .
3. Under the Custom Quota section, click Add Custom Quota.
4. Enter the Username, CPU, Memory, and GPU values that apply to the custom quota. Then click Add.

   You can use a decimal floating point value (x.01) only for the CPU and Memory settings, not for GPUs.

5. Repeat Steps 3 and 4 to add custom quotas as needed.

You can also duplicate an existing custom quota setting for a new user. Click the vertical ellipses at the end of the custom quota row and choose Duplicate, specify a new username, and click Add.

Enabling custom quotas will only affect new workloads. If users have already scheduled workloads that exceed the new quota limits, those will continue to run uninterrupted. If a user is over their limit, they will not be able to schedule any more workloads.

Modifying Default and Custom Quotas

Modifying existing quotas will only affect new workloads.

Before you begin
Required Role: Site Administrator

Procedure

1. To edit an existing quota setting:

    a) Click the vertical ellipses at the end of the row and choose Edit.

    b) Modify the parameters as needed and click Update to save your changes.

2. To delete a custom quota:

    a) Click the vertical ellipses at the end of the custom quota row and choose Remove.