

Cron Job Runner User Guide

Introduction

Cron Job Runner is an extension that is necessary for great performance of your web store. With it you will be able to regulate the accomplishment of repetitive tasks, their time, and frequency right from your admin panel. There is no need in using cPanel or adding crontab commands - you can set all the desired settings with this extension.

With Cron Job Runner you can clean temporary files, send emails, recalculate price, and update the sitemap as often as you wish without much efforts from your side. Just set the main settings once and the extension will work the way you want. All you have to do is check the logs from time to time and make some minor adjustments based on changes in your store.

Installation

1. Unpack the zip file provided into the root folder of your Magento 2 installation.
2. From a command line run

```
bin/magento module:enable Neklo_Core
bin/magento module:enable Neklo_Scheduler
bin/magento setup:upgrade
bin/magento setup:static-content:deploy
```

Magento Compatibility:

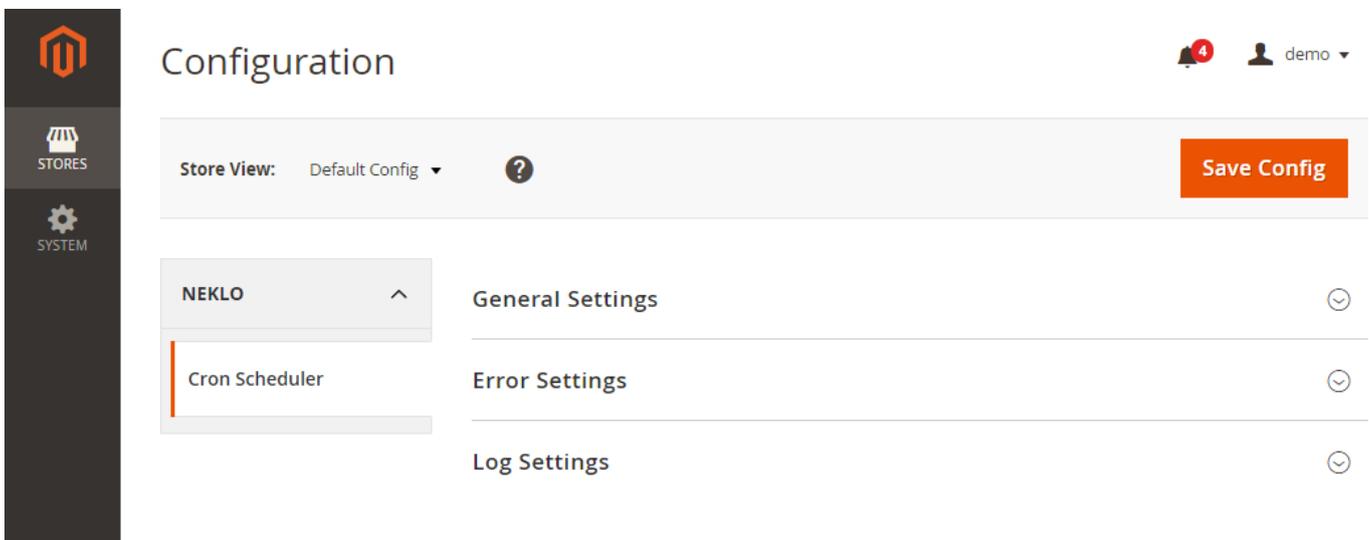
Community Edition 2.1.x - 2.2.x
Enterprise Edition 2.1.x - 2.2.x

If you experience any issues with the installation, please contact us.

Configuration - How to enable Cron Job Runner

To enable Cron Job Runner, you should complete the following steps:

1. Log into your Magento Admin Panel.
2. Go to **Stores > Settings > Configuration > Neklo tab > Cron Job Runner > General Settings**
3. "Enable Scheduler" should be "Yes".
4. Click "**Save Config**" to apply the changes.



The screenshot shows the Magento Admin Panel Configuration page for the 'NEKLO' store. The page title is 'Configuration'. In the top right corner, there is a notification bell icon with a red '4' and a user profile icon labeled 'demo'. Below the title, there is a 'Store View' dropdown menu set to 'Default Config' with a help icon. A prominent orange 'Save Config' button is located on the right side of this bar. On the left, a sidebar menu shows 'NEKLO' expanded with an upward arrow, and 'Cron Scheduler' selected with a red vertical bar. The main content area displays three expandable sections: 'General Settings', 'Error Settings', and 'Log Settings', each with a downward arrow icon.

The **General Settings** tab allows you to adjust other functions as well.

1. **Maximum job runtime** means the maximum runtime of a job. After the time expires, the process will be killed and the reached result will be shown.
2. **Heartbeat task schedule** means how often Cron Job Runner operates. For example, everyday at specific time or even every second.
3. **Maximum number of successful schedules to keep** means the maximum amount of simultaneously kept entries during their lifetime.

The screenshot displays the configuration interface for the NEKLO application. On the left, a sidebar contains navigation options for 'STORES' and 'SYSTEM'. The main content area is titled 'Configuration' and shows the 'Default Config' for the 'NEKLO' store. A 'Save Config' button is visible in the top right. The 'General Settings' section is expanded, showing four configuration items:

- Enable Scheduler:** Set to 'Yes'. A note states: 'If this is disabled no scheduled jobs will be executed'. Scope: [GLOBAL].
- Maximum job runtime:** An empty input field. A note states: 'If set a single job can't run longer than this time (in minutes). If the job is actually still running this process will be actively killed.' Scope: [GLOBAL].
- Heartbeat task schedule (cron syntax):** Set to '*****'. A note provides an example: 'example: *****'. Scope: [GLOBAL].
- Maximum number of successful schedules to keep:** Set to '3'. A note states: 'Only keeps this number of entries for every schedule even if it is shorter than the configured success lifetime. Set to 0 to keep them all until they hit the lifetime.' Scope: [GLOBAL].

Below the 'General Settings' section, there are two collapsed sections: 'Error Settings' and 'Log Settings'.

Error Managing Settings

To manage with possible errors go to **Stores > Settings > Configuration > Neklo tab > Cron Job Runner > Error Settings**. You will see the following fields:

1. **Enable Error Log** - if Yes, then the Error logs will be collected by Scheduler in a schedule specific file in `var/log/cron`.
2. **Mark job as failed after X attempts** - the job will be counted as failed after the set number of missed performances.
3. **Error Email Recipient** - the destination of emails about errors.
4. **Error Email Sender** - from where the email about the error will be sent
5. **Error Email Template** - the template of the error email. You can edit the template in **Marketing > Communications > Email Templates**. Choose the **Error email** template, load it, and edit.

The screenshot shows the 'Configuration' page for 'NEKLO'. The left sidebar contains 'STORES' and 'SYSTEM' icons. The main content area is titled 'Configuration' and includes a 'Store View: Default Config' dropdown, a help icon, and a 'Save Config' button. The 'Error Settings' section is expanded, showing three fields: 'Error Email Recipient' (admin@example.com), 'Error Email Sender' (General Contact), and 'Error Email Template' (Error email (Default)). Each field has a '[GLOBAL]' label and a collapse icon. The 'Log Settings' section is partially visible below.

Error Managing Settings

In order to make the jobs capture normal output for storage, go to **Stores > Settings > Configuration > Neklo tab > Cron Job Runner > Log Settings** and set **Yes**.

The screenshot shows the 'Configuration' page for the 'Cron Scheduler'. The page has a dark sidebar on the left with icons for 'STORES' and 'SYSTEM'. The main content area is titled 'Configuration' and includes a 'Save Config' button in the top right. The 'Cron Scheduler' section is active, showing two sub-sections: 'Error Settings' and 'Log Settings'. The 'Error Settings' section includes three fields: 'Error Email Recipient' (admin@example.com), 'Error Email Sender' (General Contact), and 'Error Email Template' (Error email (Default)). The 'Log Settings' section includes one field: 'Enable Job Output Buffering' (Yes). The 'Enable Job Output Buffering' field is highlighted with a red border.

Configuration Save Config

Cron Scheduler

Error Settings

Error Email Recipient [GLOBAL]
Leave the input field empty if not need email notification

Error Email Sender [GLOBAL]

Error Email Template [GLOBAL]

Log Settings

Enable Job Output Buffering [GLOBAL]
If this is enabled jobs will capture normal output for storage in the schedule record messages field

The Jobs Schedule

To see all the scheduled jobs, their status, and the time of performing, go to **System > Cron Management > Scheduled Jobs**. You will get to **Cron Scheduler**.

There you will see the table with different columns:

1. **ID** and **Job Code** are the main jobs identifiers.
2. **Scheduled** means the date when the job is planned to be performed.
3. **Created** means the date of creation of this job.
4. **Executed** and **Finished** display the time of start and end of the job.
5. **Message** appears if there were some issues during the execution.
6. **Status** means the present condition of the job.
7. **Action** allows you to Edit the characteristics of the job or **Delete** it.



 STORES

 SYSTEM

Cron Scheduler

 4
  demo

263 records found

per page
 of 14

	ID	Job Code	Scheduled	Created	Executed	Finished	Messages
<input type="checkbox"/>	256	sales_grid_order_shipment_async_insert	2018-05-29 10:29:00	2018-05-29 10:29:30	2018-05-29 10:29:30	2018-05-29 10:29:30	---START--- ---END---
<input type="checkbox"/>	257	sales_grid_order_creditmemo_async_insert	2018-05-29 10:29:00	2018-05-29 10:29:30	2018-05-29 10:29:30	2018-05-29 10:29:30	---START--- ---END---
<input type="checkbox"/>	258	sales_send_order_emails	2018-05-29 10:29:00	2018-05-29 10:29:30	2018-05-29 10:29:30	2018-05-29 10:29:30	---START--- ---END---
<input type="checkbox"/>	259	sales_send_order_invoice_emails	2018-05-29 10:29:00	2018-05-29 10:29:30	2018-05-29 10:29:30	2018-05-29 10:29:30	---START--- ---END---
<input type="checkbox"/>	260	sales_send_order_shipment_emails	2018-05-29 10:29:00	2018-05-29 10:29:30	2018-05-29 10:29:30	2018-05-29 10:29:30	---START--- ---END---
<input type="checkbox"/>	261	sales_send_order_creditmemo_emails	2018-05-29 10:29:00	2018-05-29 10:29:30	2018-05-29 10:29:30	2018-05-29 10:29:30	---START--- ---END---
<input type="checkbox"/>	262	catalogrule_apply_all	2018-05-29 10:29:00	2018-05-29 10:29:30	2018-05-29 10:29:30	2018-05-29 10:29:31	---START--- ---END---
<input type="checkbox"/>	263	aggregate_sales_report_tax_data	2018-05-29 10:29:00	2018-05-29 10:29:31	2018-05-29 10:29:31	2018-05-29 10:29:31	---START--- ---END--- ---RETURN_VAL Magento\Tax\Model\AggregateSale

The list of Jobs

To see the list of all jobs, go to **System > Cron Management > Job List**. You will see the table with the following columns:

1. **ID** and **Job Name** are the main jobs identifiers.
2. **Job Class** is the class where the job is located
3. **Class Method** is the method that interacts with this class
4. **Schedule** means how often the job will be performed
5. **Config** is the path from where the job will get the Schedule data if not set otherwise
6. **Group** is the way how the jobs are grouped
7. **Enable** shows the present status of the job
8. **Action** gives a list of activities to perform with a job: Edit, Run Job, or Schedule Job.

Cron Jobs

Default View Columns

Actions 37 records found 100 per page 1 of 1

ID	Job Name	Job Class	Class Method
1	currency_rates_update	Magento\Directory\Model\Observer	scheduledUp
2	backend_clean_cache	Magento\Backend\Cron\CleanCache	execute
3	system_backup	Magento\Backup\Cron\SystemBackup	execute
4	visitor_clean	Magento\Customer\Model\Visitor	clean

You can also edit any job by clicking on it.

← Back Reset Save and Continue Edit Save Job

General Information

Name backend_clean_cache

Class * Magento\Backend\Cron\CleanCache

Method * execute

Schedule 30 2 * * *

Config path

The Jobs Timeline

In order to see when and for how long the jobs were performed, go to **System > Cron Management > Job Timeline**.

1. To open the filters field press **Show/Hide**. There you will be able to display the jobs according to the date of their **Schedule, Execution, or Creation**. You can also choose the jobs that will be visible here.
2. Press **Clear** to reset the filters.

Below this you will see a big diagram with the data on all the jobs.

1. On the top line you will see all the dates.
2. On the left you will see the list of the jobs.

Job Name	2018-10-04	2018-10-05	2018-10-06	2018-10-07	2018-10-08	2018-10-09	2018-10-10	2018-10-11	2018-10-12	2018-10-13	2018-10-14	2018-10-15	2018-10-16	2018-10-17	2018-10-18	2018-10-19	2018-10-20	2018-10-21	2018-10-22	2018-10-23	2018-10-24	2018-10-25	2018-10-26	2018-10-27	2018-10-28	2018-10-29	2018-10-30	2018-10-31
visitor_clean																												
system_backup																												
sales_send_order_shipment_email																												
sales_send_order_invoice_emails																												
sales_send_order_emails																												
sales_send_order_creditmemo_emails																												
sales_grid_order_shipment_async																												
sales_grid_order_invoice_async																												
sales_grid_order_creditmemo_async																												

Thank you for using this extension. You will find more our great solutions for Magento here: store.neklo.com