

Scheduler

Scheduler for Tiki (cron jobs)

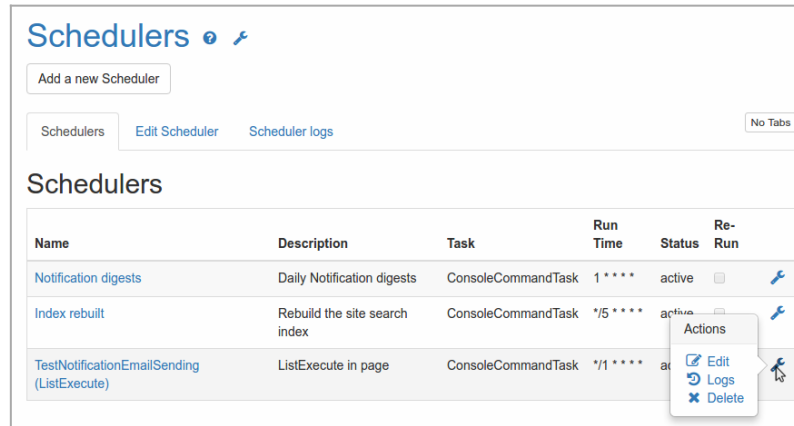
An internal scheduler was added in Tiki17, so that only one cron job needs to be defined in the system crontab, and all actions to be run at scheduled times can then be defined within Tiki UI.

1.1. How to find it

In the quick admin module, and in the main application menu under "Settings" section (["https://example.org/tiki-admin_schedulers.php"](https://example.org/tiki-admin_schedulers.php)).

1.2. Overview

You can list scheduled tasks



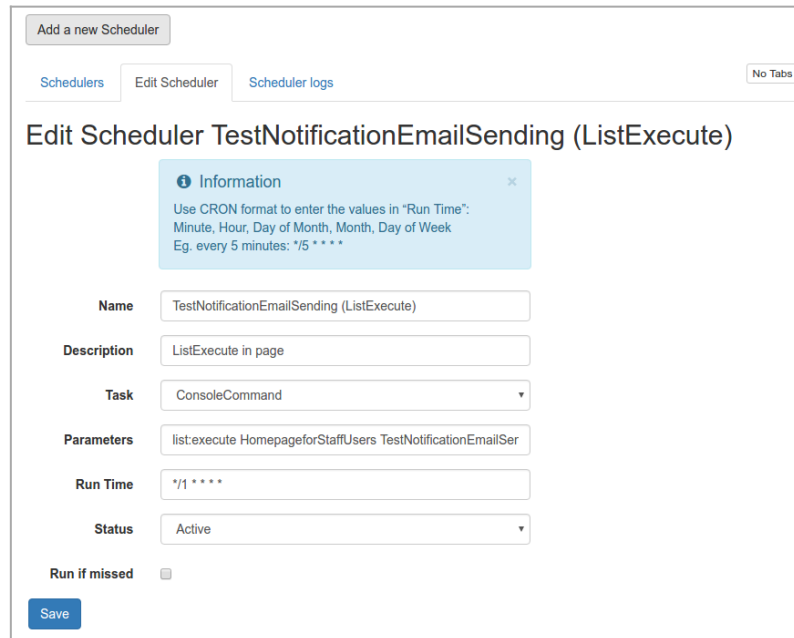
The screenshot shows the 'Schedulers' interface. At the top, there's a header 'Schedulers' with a plus icon and a pencil icon. Below it is a button 'Add a new Scheduler'. There are three tabs: 'Schedulers', 'Edit Scheduler', and 'Scheduler logs'. The 'Schedulers' tab is active. Below the tabs is a table titled 'Schedulers'.

Name	Description	Task	Run Time	Status	Re-Run
Notification digests	Daily Notification digests	ConsoleCommandTask	1 * * * *	active	<input type="checkbox"/>
Index rebuilt	Rebuild the site search index	ConsoleCommandTask	* / 5 * * * *	active	<input type="checkbox"/>
TestNotificationEmailSending (ListExecute)	ListExecute in page	ConsoleCommandTask	* / 1 * * * *	active	<input type="checkbox"/>

An 'Actions' dropdown menu is open for the 'TestNotificationEmailSending (ListExecute)' task, showing options: 'Edit', 'Logs', and 'Delete'.

Click to expand

You can edit one scheduled task



The screenshot shows the 'Edit Scheduler' page for 'TestNotificationEmailSending (ListExecute)'. At the top, there's a header 'Edit Scheduler TestNotificationEmailSending (ListExecute)'. Below it is a button 'Add a new Scheduler'. There are three tabs: 'Schedulers', 'Edit Scheduler', and 'Scheduler logs'. The 'Edit Scheduler' tab is active. Below the tabs is a form with the following fields:

- Name:** TestNotificationEmailSending (ListExecute)
- Description:** ListExecute in page
- Task:** ConsoleCommand
- Parameters:** list:execute HomepageforStaffUsers TestNotificationEmailSer
- Run Time:** * / 1 * * * *
- Status:** Active
- Run if missed:** ☐

At the bottom left is a 'Save' button. An 'Information' box is visible at the top of the form, stating: 'Use CRON format to enter the values in "Run Time": Minute, Hour, Day of Month, Month, Day of Week Eg. every 5 minutes: * / 5 * * * *'.

Click to expand

Syntax for the scheduled run time is similar to the syntax used in system crontabs in GNU/Linux and equivalent

operating systems:

Use CRON format to enter the values in “Run Time”:
Minute, Hour, Day of Month, Month, Day of Week
Eg. every 5 minutes: */5 * * * *

See <https://en.wikipedia.org/wiki/Cron> for details on Cron formats. For example:

* * * * * | | | | | | | | | | | +---- Day of the Week (range: 1-7, 1 = Monday) | | | +----- Month of the Year (range: 1-12)
| | +----- Day of the Month (range: 1-31) | +----- Hour (range: 0-23) +----- Minute (range: 0-59)

To set master cron job

Manually

The master cron job must be run quite frequently to check if Tiki Scheduler must launch another operation.
Here are some examples (adjust to your server path and use case)

To run every minute

```
* * * * * php /var/www/html/console.php scheduler:run
```

To run every 30 minutes

```
*/30 * * * * php /var/www/html/console.php scheduler:run
```

×

Process Ownership

NOTE: If the tasks set up in your scheduler create cache files (which they often will) then you need to run this cron job as your webserver user, e.g. `www-data`, `apache`, `nginx` etc

Via Tiki Manager

- Manager See instance:setup-scheduler-cron

Rebuild the Unified-Index with log

Using the Tiki Scheduler and a Console command, once you have set your master Cron Job (see above) you can automatically rebuild your Unified Index to assure your Tiki freshness. In this sample we also generate logs so we can investigate in case there were an issue.

Schedulers

Edit scheduler *Rebuild index*

Scheduler logs

i

Information

Use CRON format to enter the values in "Run Time":
Minute, Hour, Day of Month, Month, Day of Week
Eg. every 5 minutes: */5 * * * *

Name *

Rebuild index

Description

Rebuild index once a day at 6, create log

Task *

ConsoleCommand

Console command *

index:rebuild --log

Run Time *

0 */6 * * *

Status

Active

Run if missed

☐

Run only once

☐

Save

Send notification by e-mail

in the event of job execution failure, it is possible to send an email to the admin to inform them of the failure. the reasons for the failure will be visible in the logs. if the process subsequently succeeds, another email can be sent to keep them informed.

To avoid the email being sent to all admins, you can specify the email addresses that will receive the notifications in the `scheduler_users_to_notify_on_healed` and `scheduler_users_to_notify_on_stalled` preferences.

Note: this will only work if both fields are filled in. Otherwise, all admins will receive an email.

Related

- Cron
 - Cron Job to Rebuild Search Index
 - PluginListExecute
 - Console
 - Profile: Scheduler_presets_20
 - Original feature request: cron job handing via Tiki alias
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- Scheduler Management