

# Cron Job to Rebuild Search Index

You can rebuild index by visiting **example.com/tiki-admin.php?page=search&rebuild=now**. Since Tiki9, if you have a large site and do not use MySQL Full Text search, you should set up a Cron job to regularly rebuild the index.

How to do it varies from server to server, but here is an example. For a fuller description of the commands themselves please see Unified Index - from the command line

**Add this line for a daily rebuild in Tiki11 and up**

```
0 0 * * * cd /var/www/html/tiki; php console.php index:rebuild >/dev/null 2>&1
```

**To set RAM to 4 GB, increase max execution time, force an initial index cleanup and log**

```
0 0 * * * cd /var/www/html/tiki; php -dmemory_limit=4G -dmax_execution_time=300 console.php index:rebuild --force --log >/dev/null 2>&1
```

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## Tips

- The last part "**>/dev/null 2>&1**" indicates to discard the output from the command (standard output and any errors messages produced).
- The first 5 characters (separated by spaces) of the command set the time and frequency that the cron job will run. The characters refer to (in order): minute, hour, day, month, and weekday. So the above (0 0 \* \* \* ) will run at midnight (0 minutes and 0 hour) every night.

# Works in Shell but not as a Cron Job

The environment for a cron job (e.g., the `PATH` variable) may not be the same as in shell (using SSL can cause this). That means that the above scripts may work in shell but not as a cron job. To solve this, set the cron job to run a shell script that sets the `PATH` variable before running the rebuild command.

To find out what the `PATH` variable should be, use the `env` command in shell on the server where the Tiki site is that you're rebuilding the index for.

Let's say the shell script is called `cron.sh`. The cron job would be as follows:

## Cron job to run shell script

```
0 0 * * * sh cron.sh >/dev/null 2>&1
```

The shell script `cron.sh` would consist of the following:

## cron.sh

```
#!/bin/bash #this is the exact same setting as in the shell environment
```

```
PATH=/home/useraccount/perl5/bin:/usr/local/bin:/bin:/usr/bin:/usr/local/sbin:/usr/sbin:/sbin:/home/useraccount/bin
```

```
#this is the actual command to rebuild the index php -dmemory_limit=4G -dmax_execution_time=300  
/home/useraccount/public_html/console.php index:rebuild
```

Related:

- Batch
- Cron
- Search
- Search and List from Unified Index
- Scheduler

- Cron Job for Search