The Jira worklog utility

The `jira_worklog` utility allows you to enter your Jira worklog entries as easy and simple as possible from the command line.

This utility will let you add your work log entries in less than 1s.

A quick status report for the last 30 days typically executes in less than 2-3 seconds, unless the Jira project contains thousands of entries.

All entries added to Jira will also be written to a local journal in CSV format.

This journal is used for status reports if you omit the `--issues` option.

You may use Excel to read the CSV format, specifying ';' as the delimiter.

Disclaimer: Network latency and the response time of Jira is the main culprit of any delays

```
# Add one day of work to Jira issue TIME-94
jira_worklog add -i time-94 -d 1d

# Give me status for the last 30 days for time-94 and time-40
jira_worklog status -i time-94 time-40
```
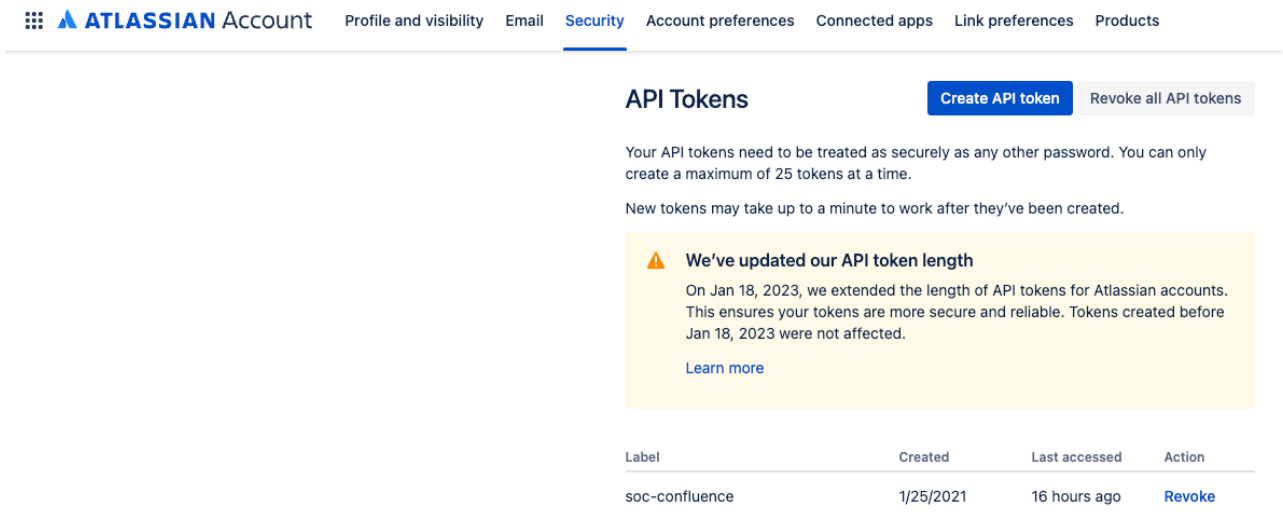
See the detailed examples below for more details.

Installation

Once you have downloaded and installed `jira_worklog` in your **path**. Like, for instance, `$HOME/.local/bin` :

1. Obtain a Jira API security token from:
    i. Log in to Jira
    ii. Click on the picture of yourself in the upper right corner ("Your profile and settings")
    iii. Click "Manage account"
    iv. Click "Security"

    v. Choose "Create and manage API tokens" almost at the bottom of the page
    vi. Click "Create your API token" and copy the token to your clip board
2. Execute this command to create the configuration file:

```
# Creates the configuration file and stores your credentials in it
jira_worklog config --user steinar.cook@autostoresystem.com --token vbF**************E3
```

Using `curl` to verify your security token

Here is how you can retrieve data from Jira using the `curl` utility from the command line:

```
curl --request GET \
  --url 'https://autostore.atlassian.net/rest/api/2/myself' \
  --user '<your email here>@autostoresystem.com:<paste your security token here>' \
  --header 'Accept: application/json'
```

Installing on MacOS

There are some extra security built into the macOS which prevents you from running potential malware. Consequently, you will see this error message if you attempt to run `jira_worklog`:
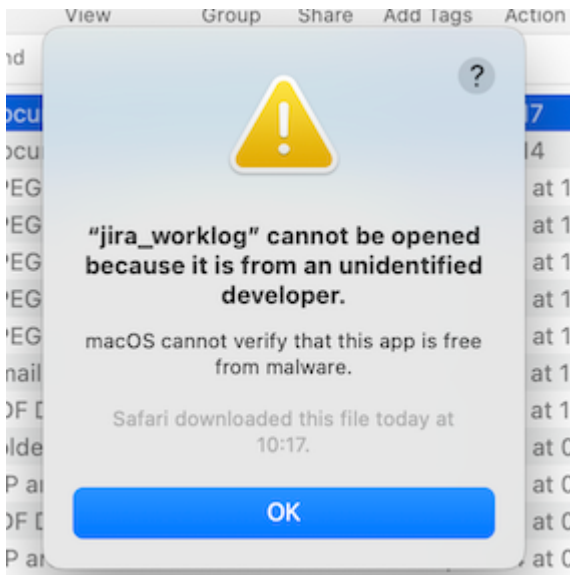
To fix this:

```
# Move to the directory where you installed
cd [to_the_directory_where_you_have_installed_jira_worklog]

chmod a+rx ./jira_worklog && xattr -d com.apple.quarantine ./jira_worklog
```

This should solve the problem.

Notes on security

The configuration file is stored without encryption in a location, which depends on the operating system you are using. See the table below for details.

If you think your machine has been compromised, go to Jira account ira and "Revoke" the API key.

MacOS specifics for the Jira Security token

On MacOS, the Jira Security Access Token is stored in the built-in KeyChain.

When `jira_worklog` attempts to access your MacOS Keychain, this window will pop up. It is a good idea to press `Always Allow` to save you some time :-)
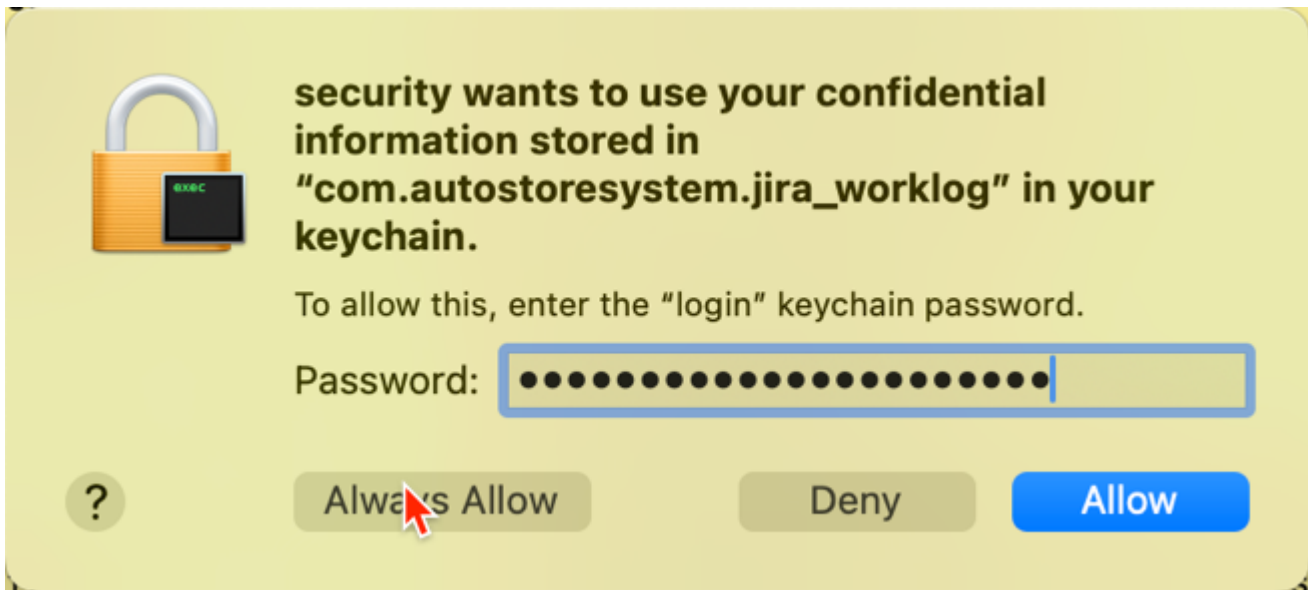
Here is a neat command to work with security tokens and passwords on MacOS:

```
# This will list the entire contents of the `jira_worklog` entry from the keychain
security find-generic-password -s com.autostoresystem.jira_worklog -a your.name@company.com -g
```

Removing local configuration files

You can remove your local configuration file using the command: `jira_worklog config --remove`

Operating system	Config file location
MacOs:	`/Users/steinar/Library/Preferences/com.autostore.jira_worklog`
Windows:	`C:\Users\Alice\AppData\Roaming\com.autostore\jira_worklog\config`
Linux:	`/home/steinar/.config/jira_worklog`

Note! For MacOS: The Jira Security Access token stored in the Keychain, will not be deleted

How to specify the duration

You can specify the duration of your work using weeks, days, hours and minutes.

The syntax is pretty straight forward, you simply specify a number followed by the unit. To combine units, simply concatenate them. The formal syntax is described below. Note that `<number>` represents any positive number using either `,` or `.` as the decimal separator. However, you may not specify fractions of minutes (for obvious reasons) :

```
<number>w<number>d<number>h<integer number>m
```

Here is an example using all the options possible

```
# Specify a duration of 1 week, 2 days, 5 hours and 30min like this
jira_worklog add -i time-158 -d 1,5w2,5d5,25h30min
```

Examples

Here are some examples on how to use the utility.

Adding worklog entries

```
# Registers 1 hour of work on TIME-94 with a comment
# The starting point will be current time less 1 hour
jira_worklog add -i time-94 -d 1h -c "I did some great work for AutoStore"


# Registers 1 hour of work on TIME-94 at 11:00 today without a comment
jira_worklog add -i time-94 -d 1h -s 11:00

# Registers 1 day of work (7.5h) on TIME-94, starting at 08:00 today, no comments
jira_worklog add -i time-94 -d 1d

# Registers 1 day (7.5 hours) of work starting at 08:00 today with no comment
jira_worklog add -i time-94 -d 1d

#
# Add 1d of work last friday, 1d of work on last thursday, 4h of work
# last Wednesday and 1,5h on last Tuesday
jira_worklog add -i time-94 -d Fri:1d Thu:1d Wed:4h Tue:1,5h
```

Given this command:

```
jira_worklog add -i time-94 -d 13h -c "Meetings and managerial work"
```

You will get a receipt looking something like this:

```
Adding single entry
Using these parameters as input:
        Issue: TIME-94
        Started: 2023-06-05T08:12:31.467244-06:00  (computed)
        Duration: 46800s
        Comment: Meetings and managerial work
Added work log entry Id: 217258 Time spent: 1d 5h 30m Time spent in seconds: 46800 Comment: Meetings a
```

Status of your worklog entries

```
#
# Shows the status from a given date
```

```
jira_worklog status -i time-40 time-147 time-117 -a 2023-05-01
```

This would give you something like this:

```
▶   Issue     IssueId Id      Weekday Started                Time spent Comment
    TIME-117  167111  304691  Mon     2024-08-19 14:42 +0200 00:30
    TIME-117  167111  305981  Wed     2024-08-28 08:36 +0200 01:00
    TIME-117  167111  306255  Wed     2024-08-28 11:22 +0200 03:00
    TIME-117  167111  309851  Tue     2024-09-03 08:00 +0200 07:30      Multi grid workshop in Haugesund
    TIME-147  211874  309901  Mon     2024-09-02 08:00 +0200 07:30
    TIME-147  211874  309995  Wed     2024-09-04 08:00 +0200 07:30      PO role desc, DT architecture, time
    TIME-147  211874  310089  Thu     2024-09-06 01:21 +0200 07:30
    TIME-147  211874  310499  Fri     2024-09-06 08:00 +0200 07:30      Admin work, DT migration planning
    TIME-147  211874  310500  Fri     2024-09-06 08:00 +0200 03:00      jira_worklog
    TIME-147  211874  310501  Sat     2024-09-07 08:00 +0200 03:00      jira_worklog
    TIME-147  211874  310535  Sun     2024-09-08 07:43 +0200 01:00      Added monthly summary to worklog
    TIME-40   85002   304588  Mon     2024-08-05 08:00 +0200 07:30
    TIME-40   85002   304589  Tue     2024-08-06 08:00 +0200 07:30
    TIME-40   85002   304590  Wed     2024-08-07 08:00 +0200 07:30
    TIME-40   85002   304591  Thu     2024-08-08 08:00 +0200 07:30
    TIME-40   85002   304592  Fri     2024-08-09 08:00 +0200 07:30
    TIME-40   85002   303933  Mon     2024-08-12 09:00 +0200 10:00
    TIME-40   85002   304329  Tue     2024-08-13 08:00 +0200 08:00
    TIME-40   85002   304330  Wed     2024-08-14 08:00 +0200 10:00
    TIME-40   85002   304331  Thu     2024-08-15 08:00 +0200 07:30
    TIME-40   85002   304431  Fri     2024-08-16 08:00 +0200 06:00
    TIME-40   85002   304593  Sun     2024-08-18 16:00 +0200 01:00
    TIME-40   85002   305844  Mon     2024-08-19 08:00 +0200 07:30
    TIME-40   85002   305845  Tue     2024-08-20 08:00 +0200 07:30
    TIME-40   85002   305846  Wed     2024-08-21 08:00 +0200 07:30
    TIME-40   85002   305847  Thu     2024-08-22 08:00 +0200 07:30
    TIME-40   85002   305848  Fri     2024-08-23 08:00 +0200 07:30
    TIME-40   85002   305849  Sun     2024-08-25 08:00 +0200 04:00
    TIME-40   85002   305850  Mon     2024-08-26 08:00 +0200 07:30
    TIME-40   85002   305852  Tue     2024-08-27 08:00 +0200 07:30      Strategy workshop
    TIME-40   85002   305853  Tue     2024-08-27 08:00 +0200 03:00      Workshop part2
    TIME-40   85002   306261  Wed     2024-08-28 10:26 +0200 04:00      Meetings about admin
    TIME-40   85002   309850  Thu     2024-08-29 08:00 +0200 07:30
    TIME-40   85002   307325  Fri     2024-08-30 08:20 +0200 07:30      Walk and talk and product ownership

    Date          Day  time-40  time-147 time-117   Total
    ------------- -------- -------- -------- --------
    2024-08-05 Mon   07:30        -        -    07:30
    2024-08-06 Tue   07:30        -        -    07:30
    2024-08-07 Wed   07:30        -        -    07:30
    2024-08-08 Thu   07:30        -        -    07:30
    2024-08-09 Fri   07:30        -        -    07:30
    ------------- -------- -------- -------- --------
    ISO Week 32      37:30    00:00    00:00    37:30
    ============= ======== ======== ======== ========

    Date          Day  time-40  time-147 time-117   Total
    ------------- -------- -------- -------- --------
    2024-08-12 Mon   10:00        -        -    10:00
    2024-08-13 Tue   08:00        -        -    08:00
    2024-08-14 Wed   10:00        -        -    10:00
    2024-08-15 Thu   07:30        -        -    07:30
    2024-08-16 Fri   06:00        -        -    06:00
    2024-08-18 Sun   01:00        -        -    01:00
```

```
--------------- --------- --------- --------- ---------
ISO Week 33        42:30     00:00     00:00     42:30
=============== ======== ======== ======== ========

Date        Day  time-40  time-147 time-117    Total
--------------- --------- --------- --------- ---------
2024-08-19 Mon    07:30         -     00:30     08:00
2024-08-20 Tue    07:30         -         -     07:30
2024-08-21 Wed    07:30         -         -     07:30
2024-08-22 Thu    07:30         -         -     07:30
2024-08-23 Fri    07:30         -         -     07:30
2024-08-25 Sun    04:00         -         -     04:00
--------------- --------- --------- --------- ---------
ISO Week 34        41:30     00:00     00:30     42:00
=============== ======== ======== ======== ========

Date        Day  time-40  time-147 time-117    Total
--------------- --------- --------- --------- ---------
2024-08-26 Mon    07:30         -         -     07:30
2024-08-27 Tue    10:30         -         -     10:30
2024-08-28 Wed    04:00         -     04:00     08:00
2024-08-29 Thu    07:30         -         -     07:30
2024-08-30 Fri    07:30         -         -     07:30
--------------- --------- --------- --------- ---------
ISO Week 35        37:00     00:00     04:00     41:00
=============== ======== ======== ======== ========

Date        Day  time-40  time-147 time-117    Total
--------------- --------- --------- --------- ---------
2024-09-02 Mon        -     07:30         -     07:30
2024-09-03 Tue        -         -     07:30     07:30
2024-09-04 Wed        -     07:30         -     07:30
2024-09-05 Thu        -     07:30         -     07:30
2024-09-06 Fri        -     10:30         -     10:30
2024-09-07 Sat        -     03:00         -     03:00
2024-09-08 Sun        -     01:00         -     01:00
--------------- --------- --------- --------- ---------
ISO Week 36        00:00     37:00     07:30     44:30
=============== ======== ======== ======== ========
```

Create a status report from most used time codes

If you omit the `--issue` option, a list of unique time codes will be obtained from the local journal on your machine.

▶ `jira_worklog status`

Removing entries

We all make mistakes every now then. To remove an entry you need to specify the `issueId or key` and the `worklog id` :

▶
```
# Removes a work log entry for issue TIME-94 with worklog id of 216626
jira_worklog del -i time-94 -w 216626
```

The entry will also be removed from the local journal.

Listing all available time codes

If you want a complete list of all the available time codes:

▶ `jira_worklog codes`

Output:

```
TIME-164 ASIO — Sustaining
TIME-163 Service Vehicles — Sustaining
TIME-162 Service Wall — Sustaining
TIME-161 Amazon UWA6 — Customer Project
TIME-160 Cloud Infrastructure & DevOps
TIME-159 1214 Qubit Product Improvement 2024
TIME-158 1215 Robot Radio Wifi
TIME-157 1213 Green Train Release Spring 2025 — Test & Validation
TIME-156 1212 Green Train Release Spring 2025 — Cube Control Software
TIME-155 Travel
TIME-154 Product Management
TIME-153 Product Safety
TIME-152 Scalability — Sustaining
TIME-151 Log Analyzer — Sustaining
TIME-150 Facility Management
TIME-148 Training and Education
TIME-147 Administration
TIME-146 UX — Sustaining
TIME-145 Port Software — Sustaining
.... ......
```

Debug

A log-file is created behind the scenes if you use the `--verbosity` option, which allows for debugging:

▶ `jira_worklog status -i time-40 -v debug`

Output would look something like this:

▶
```
jira_worklog status -i TIME-40 -v debug
Version: 0.2.7
Logging to /var/folders/ll/ywcp72091yv33vkts306qs0r0000gn/T/jira_worklog.log
Issue    IssueId     Id          Weekday Started                    Time spent
TIME-40  85002       304588      Mon     2024-08-05 08:00 +0200     07:30
TIME-40  85002       304589      Tue     2024-08-06 08:00 +0200     07:30
...... lots of data .....
```

You can specify one of `debug`, `info`, `warn` or `error`