Jobsworth Project Management 4.0

Jobsworth Project Management 4.0: Installation and Manual jw40doc.140127

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Preface

Welcome to the jobsworth project management, support ticketing and CRM system. This software is licensed under the AGPLv3.

Jobsworth can be used for helpdesk support ticketing, customer liasion, resource management (eg. systems and password tracking) and has a range of CRM type functionality. Plan your projects, see your schedule, know if you're slipping behind and why. Time Tracking and extensive reports help you show your clients exactly what you've done and for how long.

- no restrictions or limits
- interactive gantt chart & scheduling
- flexible reporting
- tracks and indexes all changes
- notifications via email, rss & ical
- ldap integration
- acounting / billing system integration
- custom attributes
- inbound and outbound email integration
- sophisticated access control
- services (SLA)
- resources
- .. much much more

Further project details can be seen at Ohloh (https://www.ohloh.net/p/jobsworth) ▶ .

Support

The primary support is through the mailing list (https://groups.google.com/forum/#!forum/jobsworth) → or if you have a bug report, create an issue (https://github.com/ari/jobsworth/issues) → in the tracker. If you want to write up details of a new feature you'd like to see, please use the wiki wiki (https://github.com/ari/jobsworth/wiki) → .

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Contributing

Code contributions are welcome to this project and the best way to go about it is to fork the git repository:

https://github.com/ari/jobsworth

Please read the DEVELOPMENT.md file in this directory for more information. Join the developer mailing list (https://groups.google.com/forum/#!forum/jobsworth-dev) \nearrow to discuss ideas or ask questions.

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I Installation

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1 base OS installation

The base installation of Jobsworth 4.0 is very easy (big improvement to previous releases), once a server with some SQL-database and a servlet container has been set up. For those of you not setting up such servers frequently, I have added some more screenshots and commands, that might help you speeding up the installation process.



Note

The following installation instructions are based on FreeBSD® 9.2. Other Unix-like operating systems may also work, once a LAMP server has been set up. Especially pathes to configuration files differ in various distributions from Free-BSD® and have to be adapted individually.

First of all get an operating system on a dedicated machine running. Typically Jobsworth only uses server functionality, therefore a graphical user interface (e.g. Gnome or KDE) is not necessary. If you are new to server installation, such GUI would help you to find your way around (e.g. looking on the web for HowTo's).

2 Database

Install the database-server package. You can either use mysql or postgresql. The following example shows the setup of *mysql* . After invoking mysql from the command-line you should see a screen like this:

```
$ mysql
Welcome to the MySQL monitor. Commands end with -; or \g.
Your MySQL connection id is 6
Server version: 5.5.33 Source distribution

Copyright (c) 2000, 2013, Oracle and/or its affiliates. All rigths reserved.
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

Type -'help;' or -'\h' for help. Type -'\c' to clear current input statement.

mysql>
```



Important

If you see any minus-signs in the screenshot above: This is some unresolved rendering error problem (for PDFs only?). Be aware that those minus-signs shall NOT be typed as part of the configuration scripts that will follow.

Now type in the following commands to create the jobsworth database and an admin-user. Feel free to adjust database-name, user-id and password and note it for later configuration. Then quit mysql-console.

```
CREATE DATABASE mydb DEFAULT CHARACTER SET utf8

CREATE USER -'monty'@'localhost' IDENTIFIED BY -'some_pass';

GRANT ALL PRIVILEGES ON *.* TO -'monty'@'localhost' WITH GRANT OPTION

quit
```



Note

At a later stage in this installation process Jobsworth will setup all tables and initial data on its first call.

To enable the start of mysql during start of your server, the following entry has to be inserted into your startup configuration file (e.g. /etc/rc.conf)

mysql_enable="YES"

3 Apache

Installation of Apache Web-Server on most OS distributions is pretty straightforward. Just install the packages delivered with your distribution. For this example I have installed Apache V2.2.

To enable the start of Apache Web-Server during start of your server, the following entry (depending on your OS and apache version) has to be inserted into your startup configuration file (e.g. /etc/rc.conf)

```
apache22_enable="YES"
```

In any browser type in the URL of your Jobsworth server. For example:

```
http://172.20.50.4
```

A simple screen shows, that Apache is running.



It works!

FIGURE 3.1: APACHE WORKS

4 Servlet container

Install Apache Tomcat (or another java servlet container) and make sure you can get to the default installation home page. How to install Tomcat or some other servlet container is beyond the scope of these instructions (still, some more details will follow here) but the basic details can be found in the documentation (http://tomcat.apache.org/tomcat-7.0-doc/) \blacksquare . Don't be afraid of all those XML configuration files in Tomcat; mostly they can be left to default values.

There is one file you will need to edit and that is context.xml. This file defines all the configuration for your application. Copy the example (https://github.com/ari/jobsworth/blob/master/config/context.example.xml)

into the tomcat configuration folder and set all the variables to reasonable choices for your system.



Important

Please note that line-breaks in the following listing might be confusing. Always load actual context.example.xml (https://github.com/ari/jobsworth/blob/master/config/context.example.xml) file for your reference!

```
auth="Container" type="javax.sql.DataSource"
            maxActive="100" maxIdle="30" maxWait="10000"
            username="${DBUSER}" password="${DBPASS}" @
            driverClassName="com.mysql.jdbc.Driver" batchSize="-1"
            url="jdbc:mysql://${DBSERVER}:3306/${DBNAME}?
autoReconnect=true&zeroDateTimeBehavior=convertToNull&useUnicode=true&characterEncodimg=utf8"
            validationQuery="select 1"/>
 <!-- The base domain of the running application. The actual URL you use to
access the system is the name of the tenant followed by this. So you might
have -'company1.acme.com' and -'company2.acme.com' --->
 <Parameter name="config.domain" value="acme.com" override="false"/>
 <!-- Jobsworth can be branded as something else --->
 <Parameter name="config.productName" value="jobsworth" override="false"/>
 <!-- SSL is good. But you may want to turn it off while you are first setting
this up --->
 <Parameter name="config.ssl" value="true" override="false"/>
  <!-- A path to a folder on disk where jobsworth will store task attachments --->
  <Parameter name="config.storeroot" value="/var/jobsworth/assets" override="false"/</pre>
 <!-- What domain will mail from jobsworth come from? --->
 <Parameter name="config.email_domain" value="acme.com" override="false"/>
  <!-- Some emails like password resets will come from this user name. So in this
example, it will be jobsworth@acme.com --->
  <Parameter name="config.email replyto" value="jobsworth" override="false"/>
 <!-- The from user name. This is usually the same as the reply-to username --->
  <Parameter name="config.email_from" value="jobsworth" override="false"/>
 <!-- Something to put at the start of every subject on emails from jobsworth --->
  <Parameter name="config.email prefix" value="'[jobsworth]'" override="false"/>
```

```
<!-- Jobsworth SMTP settings ---> 4
  <Parameter name="config.smtp host" value="mail.acme.com" override="false"/>
  <Parameter name="config.smtp port" value="25" override="false"/>
  <Parameter name="config.smtp_domain" value="acme.com" override="false"/>
  <!-- This value is used for integration with your incoming mail server. Change
it! --->
  <Parameter name="config.secret" value="changeThisValueToSomethingRandom"</pre>
override="false"/>
  <!-- Jobsworth email notification of errors --->
  <Parameter name="config.error_email_prefix" value="'[jobsworth error]'"</pre>
override="false"/>
  <Parameter name="config.error_sender_address" value="jobsworth@acme.com"</pre>
override="false"/>
  <Parameter name="config.error_exception_recipients"</pre>
value="['support@example.com','sysadmin@example.com']" override="false"/>
</Context>
```

• If you are unsure, which "config" folder: search for a folder containing a subfolder "ROOT". It most probably is close to this. On my FreeBSD installation the config folder is located at:

```
/usr/local/apache-tomcat-7.0/conf
```

2 Do not use variables (\$ and {} chars) but enter UID and Password enclosed in parenthesis (except you have external scripts defining those variables), e.g.:

```
username: -"uid" password: -"pw"
```

3 Example:

```
url="jdbc:mysql://172.20.50.4:3306/mydb?
```

Remarks above are mandatory for getting Jobsworth running. All remarks below will add e-mail capabilities and may be configured later.

Please fill in host, port and domain as given from your e-mail provider.

To enable the start of Tomcat Servlet container during start of your server, the following entry has to be inserted into your startup configuration file (e.g. /etc/rc.conf)

```
tomcat7_enable="YES"
```

In any browser type in the URL of your Jobsworth server followed by port 8080. For example:

http://172.20.50.4:8080

If you see the following screen, your Tomcat installation has been successfull.

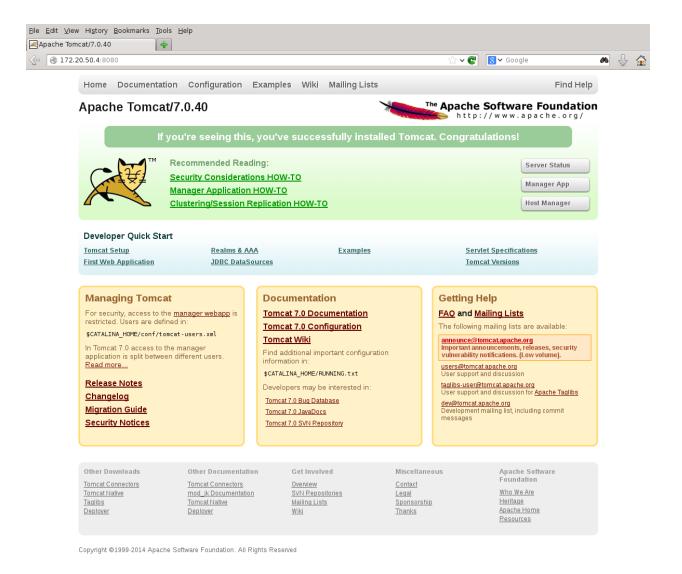


FIGURE 4.1: TOMCAT WORKS

5 E-Mail

When jobsworth sends outgoing emails for task updates, they will have a reply address which looks like this:

```
task-1234@acme.domain.com.au
```

If a user hits reply to that email, you want it to be appended to the task comments. Here's how to set this up for sendmail; adapt the script for your own mail server. Mail can be running on a different server to jobsworth because we use HTTP to push the mail from your mail server to jobsworth.

Sendmail: Add an entry to /etc/mail/local-host-names for your hostname:

```
acme.domain.com.au
```

Add an entry to /etc/mail/aliases to create an alias that will hand off emails to a script:

```
jobsworth: -"|/usr/local/share/jobsworth/mail_script.sh"
```

Add an entry to /etc/mail/virtusertable to redirect all emails to your domain to the above alias

```
@acme.domain.com.au jobsworth
```

run

```
make; make restart
```

in /etc/mail to rebuild the sendmail databases. Now create a script at /usr/local/share/jobsworth/mail_script.sh with the following contents

```
#!/bin/sh
SECRET=password1234
URL=https://acme.domain.com.au/emails
cat $2 -| -/usr/local/bin/curl --s --k ---data-urlencode secret=${SECRET} ---data-
urlencode email@- ${URL}
```

Make sure you change the password and you make it the same as the password in the context.xml file.

6 Jobsworth

Stop tomcat. With FreeBSD use the following command:

service tomcat7 stop

Enter Tomcat web-directory e.g.

/usr/local/apache-tomcat-7.0/webapps

service tomcat7 start

The ROOT.war-file will now be extracted into a ROOT subdirectory. Give it a few seconds to complete before you continue.



Tip

For the installation of any new version of Jobsworth you only have to replace the ROOT.war file.

II Administration

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7 Login

After you have successfully managed the installation part, it's time to login and start exploring Jobsworth 4.0.

Open the browser of your choice (currently supported are: Internet Explorer, Firefox, Chrome) and type in the URL of your Jobsworth server followed by port 8080. For example:

http://172.20.50.4:8080

This will lead you to the following login screen.



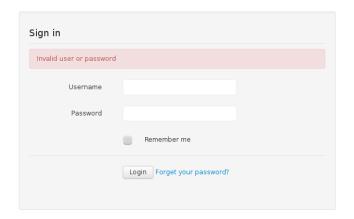


FIGURE 7.1: LOGIN



Important

The default user after installation is *admin/password*. During first login all database tables will be generated and filled with some initial content. This may take a while. Please stay patient. For security reasons change the password as soon as possible.

8 Menu Items

Jobsworth needs some basic preparation (e.g. project and company setup), before each function can be used. Nevertheless the Author decided to describe the menu in the order it appears on the screen. A kind of workflow may be added later.

8.1 Overview

8.1.1 Dashboard

The Dashboard is a pretty powerful information overview that can be customized both for administrator and individually per user. Lots of options allow to individually select the information for your individual needs. The Dashboard is preconfigured with most important widgets. Enter the *Create* menu to add more widgets.

All widgets will get described later in this document



Important

Currently there are some issues maintaining widgets. This should be eliminated in one of the later releases. Until then Widgets cannot be deleted. Using firefox (compared to Internet Explorer) Widgets cannot get configured. Some more problems currently occur.

16 Overview jw40doc.140127

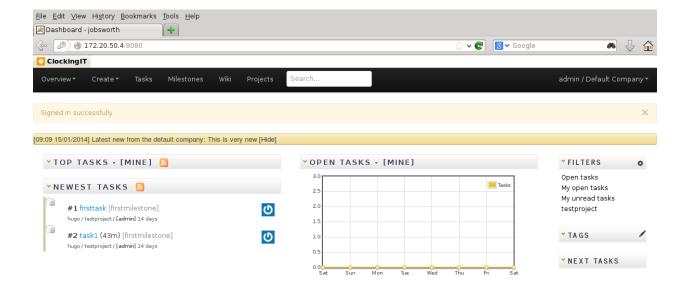


FIGURE 8.1: DASHBOARD

8.1.2 Planning

This screen will allow you to plan your tasks.



Note

This screen looks pretty empty after install and will make sense, once some tasks have been generated.

17 Planning jw40doc.140127

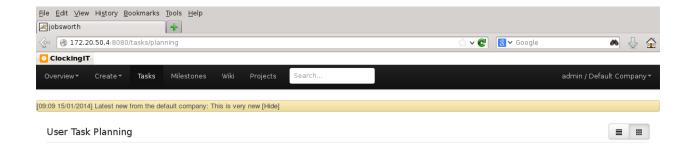


FIGURE 8.2: PLANNING

Planning jw40doc.140127

8.1.3 Billing

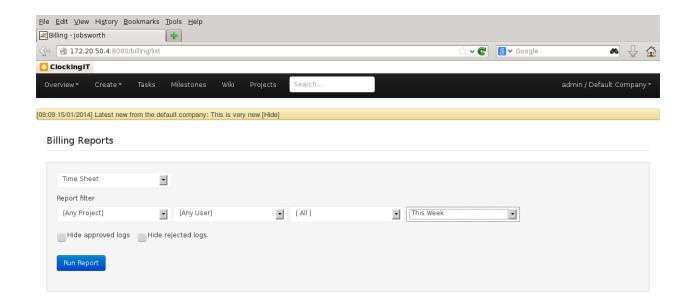


FIGURE 8.3: BILLING

19 Billing jw40doc.140127

8.1.4 History

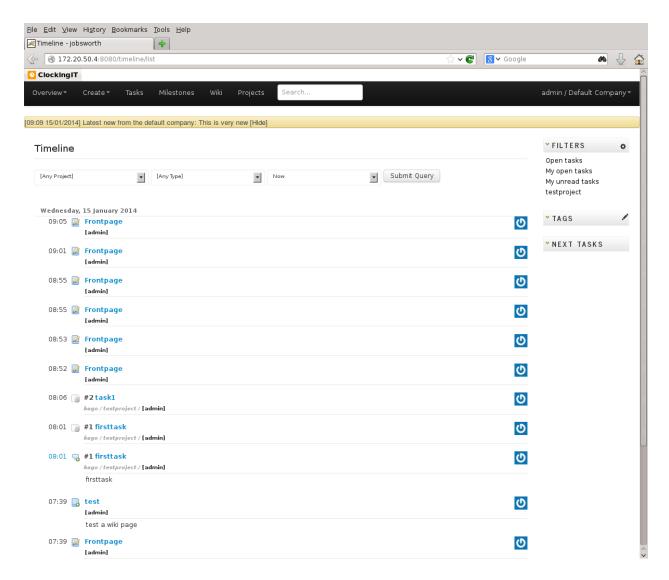


FIGURE 8.4: HISTORY

20 History jw40doc.140127

8.2 Create

8.2.1 Create Task

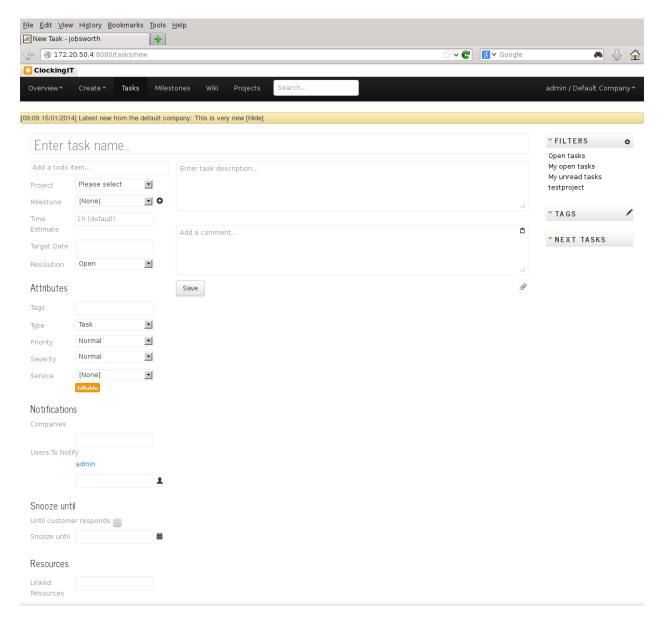


FIGURE 8.5: CREATE TASK



Tip

Task dependencies are described here: Task dependencies (https://github.com/ari/jobsworth/wiki/Dependencies) ¬ . Needs some work to get included here.

21 Create jw40doc.140127

8.2.2 Create Project

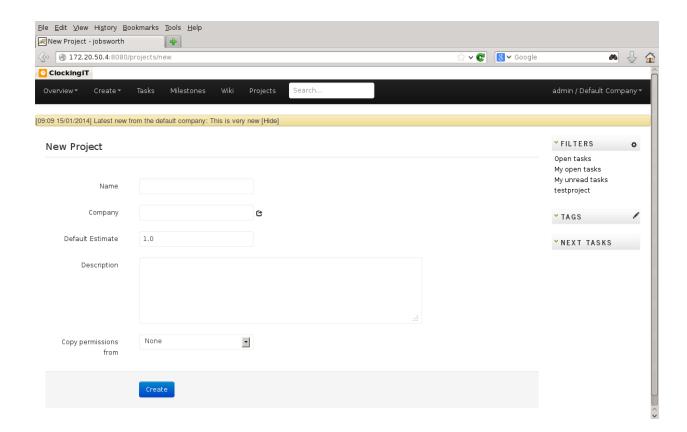


FIGURE 8.6: CREATE PROJECT

22 Create Project jw40doc.140127

8.2.3 Create Milestone

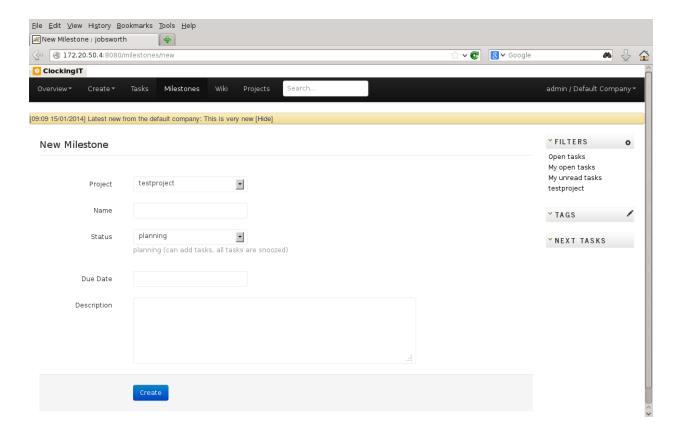


FIGURE 8.7: CREATE MILESTONE

23 Create Milestone jw40doc.140127

8.2.4 Create Person

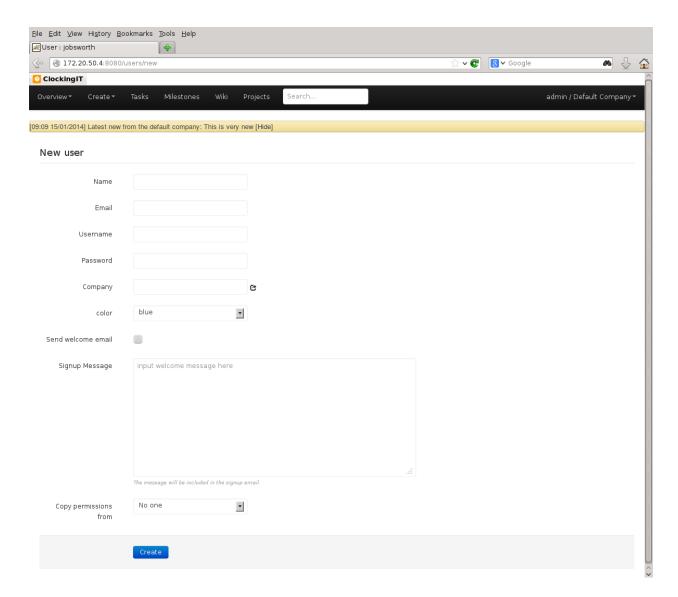


FIGURE 8.8: CREATE PERSON

24 Create Person jw40doc.140127

8.2.5 Create Company

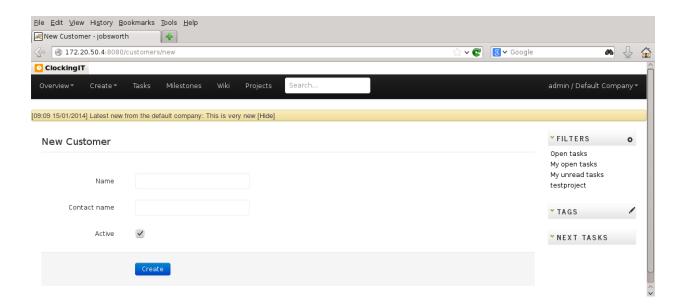


FIGURE 8.9: CREATE COMPANY



Important

You might get confused by terms *company* and *customer* that are not used consistently. The admin is assigned to one company (e.g. default_company) and creates multiple instances of customers he is working for or people are employed by. Be aware that people always can see all customers (important for running multiple projects on one jobsworth server).

TABLE 8.1: CREATE COMPANY INPUT FIELDS

Field	Purpose
Name	Enter a new customer name. People, Projects and Tasks are assigned to customers.
Contact Name	Enter the user's name of a previously defined person or leave the field empty for now.
Active	Select this customer to be active or inactive.

Please refer to the linked sections for more information about widgets used in this screen:

25 Create Company jw40doc.140127

- Section 9.1, "Filters"
- Section 9.3, "Tags"
- Section 9.2.2, "Next Tasks"

Once you have created the new customer, type in the name in the search button on the top. A new (extended) customer view will open which in addition contains multiple tabs.

TABLE 8.2: EDIT COMPANY TABS

Tab	Purpose
Active Users	Shows all active users belonging to the customer.
Inactive Users	Shows all inactive users belonging to the customer.
Current Projects	Shows assigned projects and associated milestones. From here you can enter those by just clicking the names.
Completed Projects	Shows completed projects.
Score Rules	Lets you create, edit and delete companies (customer's) score rules.
Sites	Shows all business units or locations of the customer.
Resources	Shows all defined resources of this customer. Click on an item to enter the detail page
Services	??? unclear to me

26 Create Company jw40doc.140127

8.2.6 Create Resource

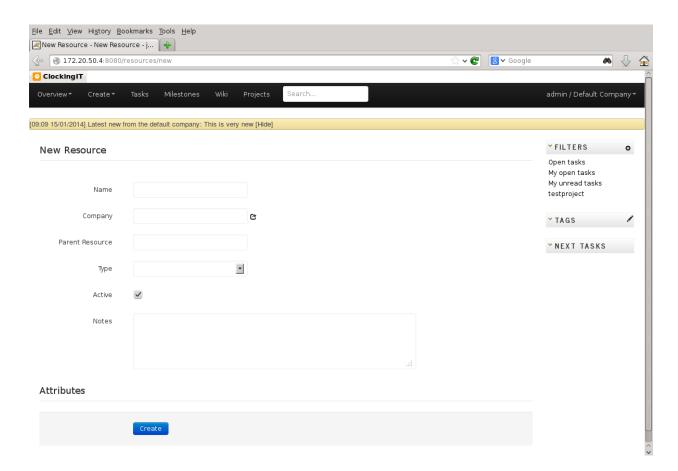


FIGURE 8.10: CREATE RESOURCE

Resource is a generic term for anything that you want to be relevant in planning a project. I could be for example:

- Websites
- Computers
- Rooms
- Whiteboards
- Projectors
- ... and more

Be sure to define appropriate resource-types prior to defining the individual resources.

27 Create Resource jw40doc.140127



Tip

More information on resource-management can be found here: Resource Management (https://github.com/ari/jobsworth/wiki/Resource-management) \nearrow . Needs some work to get included here.

8.2.7 Add New Widget

This menu option only will show up, when the Dashboard is displayed. You will be guided to add a new widget for the Dashboard. After specifying a name and the type of the widget additional information is requested. The different types of widgets are described here: *Chapter 9, Widgets*

8.3 Tasks

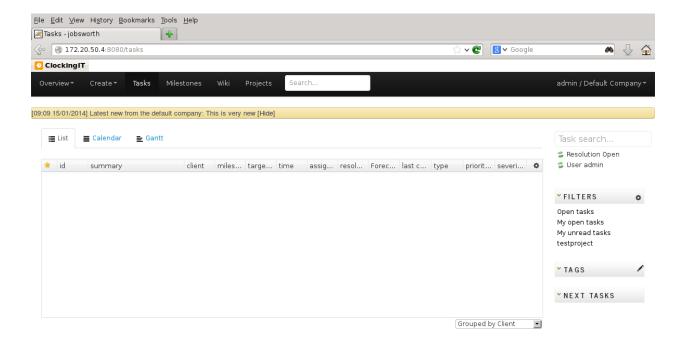


FIGURE 8.11: TASKS

28 Add New Widget jw40doc.140127

8.4 Milestones

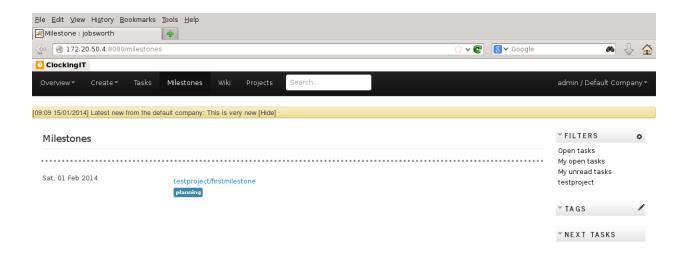


FIGURE 8.12: MILESTONES

29 Milestones jw40doc.140127

8.5 Wiki

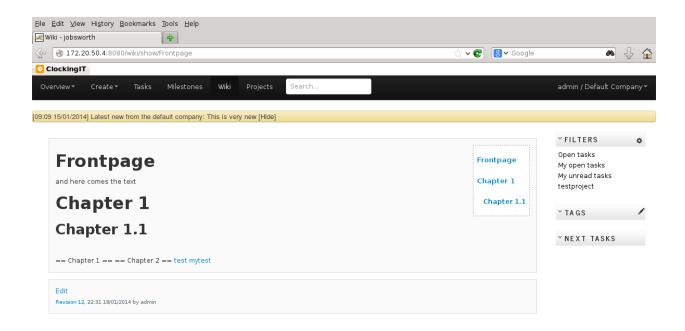


FIGURE 8.13: WIKI

30 Wiki jw40doc.140127

8.6 Projects

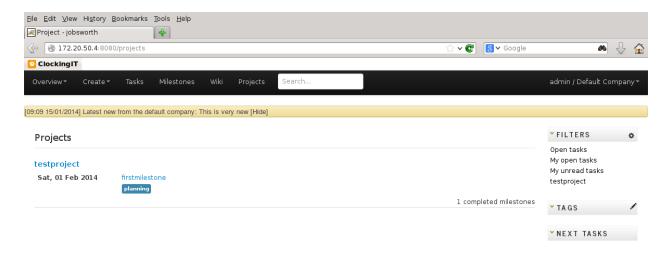


FIGURE 8.14: PROJECTS

8.7 Search

The search field allows you to find items in different categories. Type in at least three consecutive characters (the underline character will act as a wildcard-char) and depending on the context you will be prompted with a result list containing items of following categories:

- Company / Customers
- Milestones
- People
- Projects
- Resources

31 Projects jw40doc.140127

Tasks

After selection you will be led to the items detail page.

8.8 MyAccount

8.8.1 General

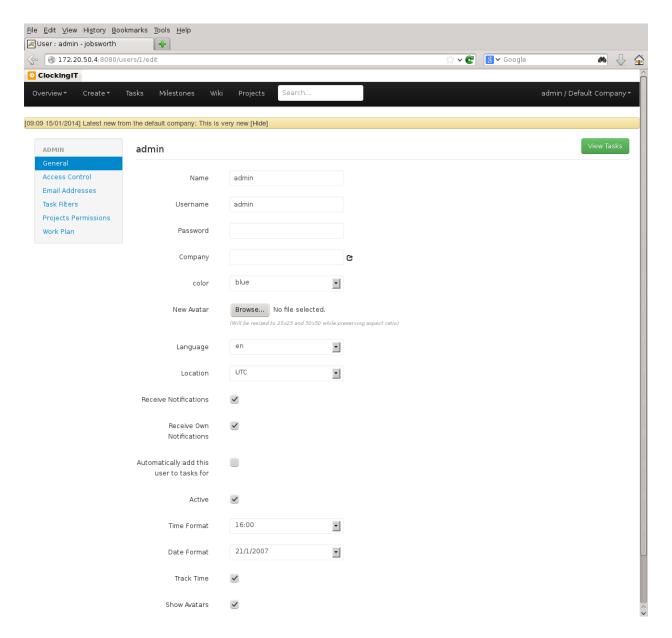


FIGURE 8.15: GENERAL

32 MyAccount jw40doc.140127

8.8.2 Access Control

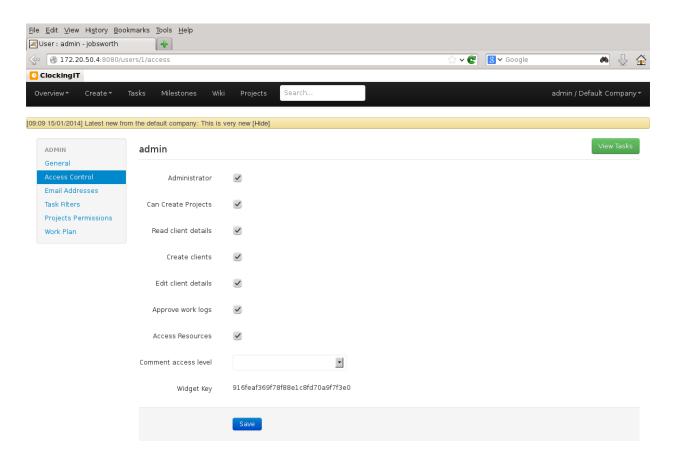


FIGURE 8.16: ACCESS CONTROL

8.8.3 E-Mail Adresses

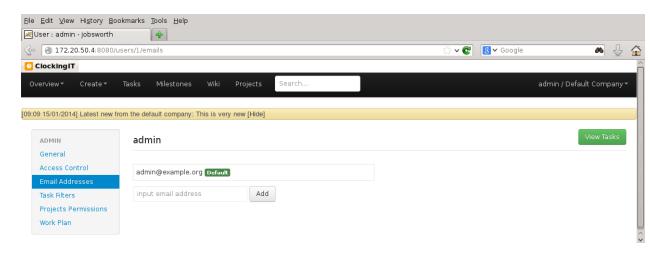


FIGURE 8.17: E-MAIL ADRESSES

Access Control jw40doc.140127

8.8.4 Task Filters

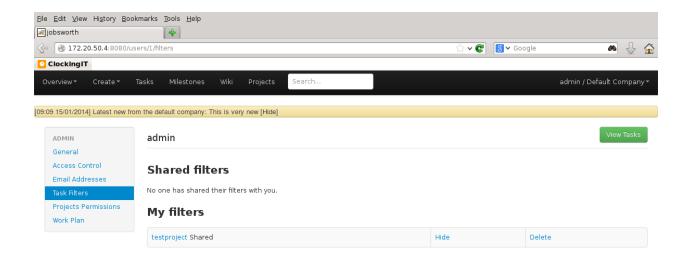


FIGURE 8.18: TASK FILTERS

8.8.5 Projects Permissions

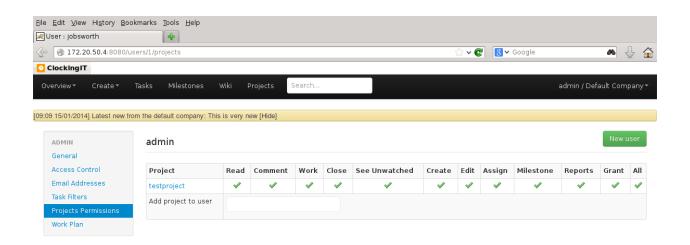


FIGURE 8.19: PROJECTS PERMISSIONS

Task Filters jw40doc.140127

8.8.6 Work Plan

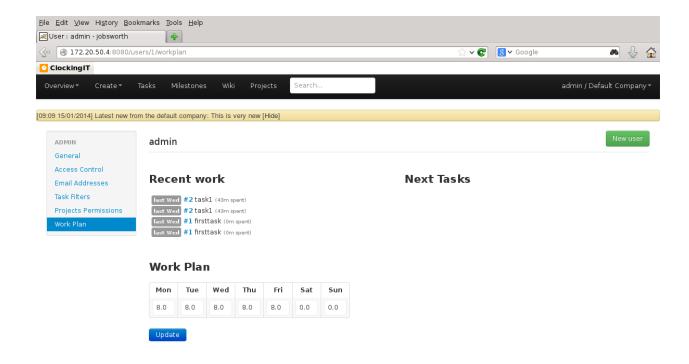


FIGURE 8.20: WORK PLAN

35 Work Plan jw40doc.140127

8.9 Company Admin

8.9.1 General

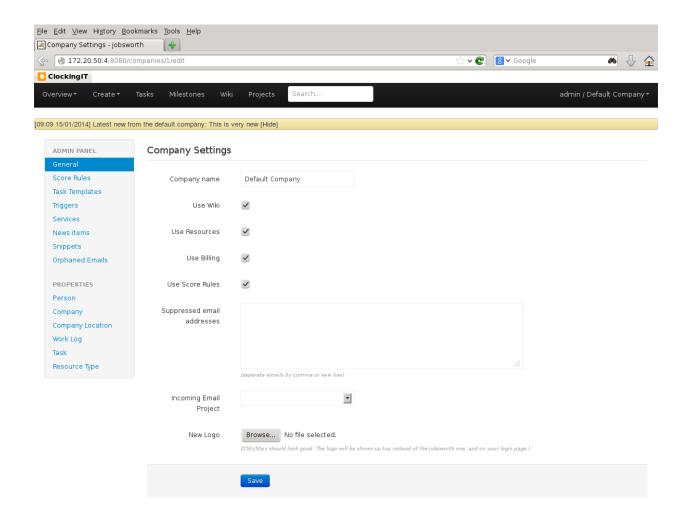


FIGURE 8.21: GENERAL

36 Company Admin jw40doc.140127

8.9.2 Score Rules

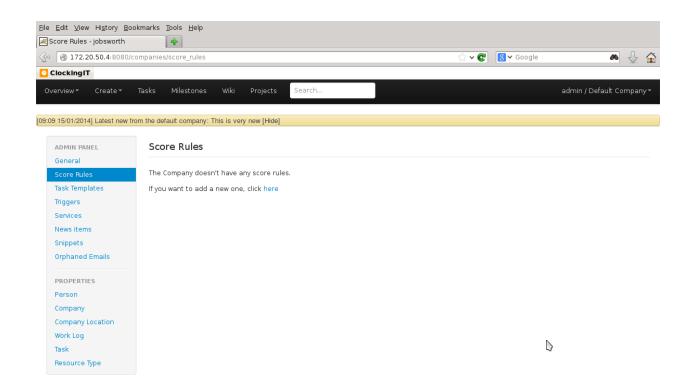


FIGURE 8.22: SCORE RULES

Score Rules jw40doc.140127

8.9.3 Task Templates

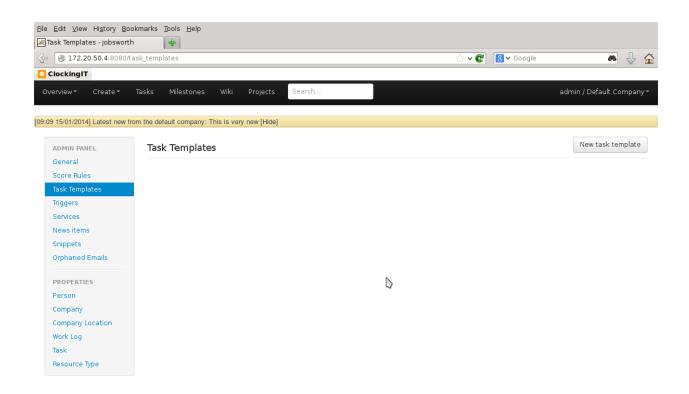


FIGURE 8.23: TASK TEMPLATES

Task Templates jw40doc.140127

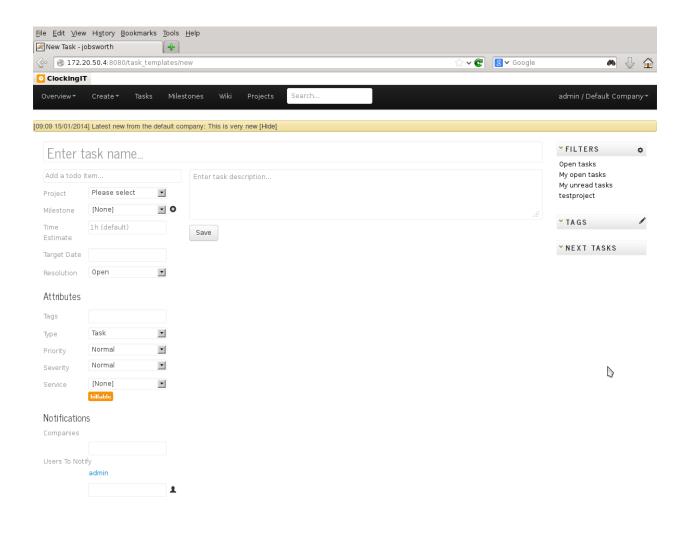


FIGURE 8.24: NEW TASK TEMPLATE

Task Templates jw40doc.140127

8.9.4 Triggers

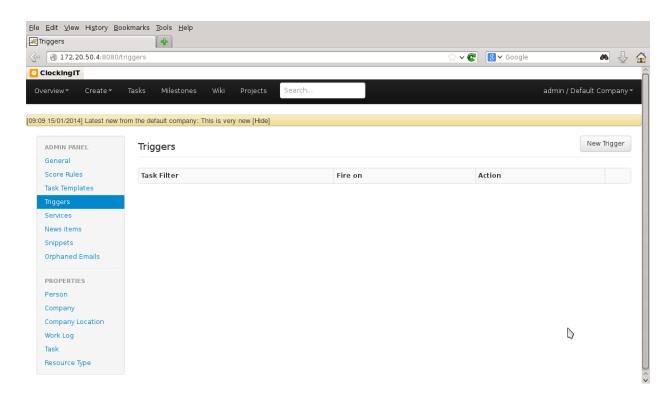


FIGURE 8.25: TRIGGERS

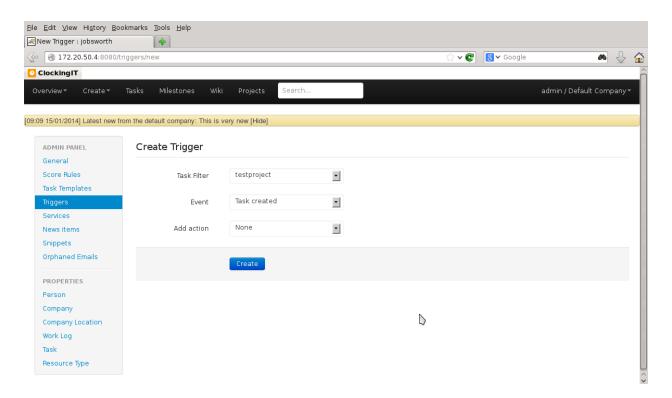


FIGURE 8.26: NEW TRIGGER

40 Triggers jw40doc.140127

8.9.5 Services

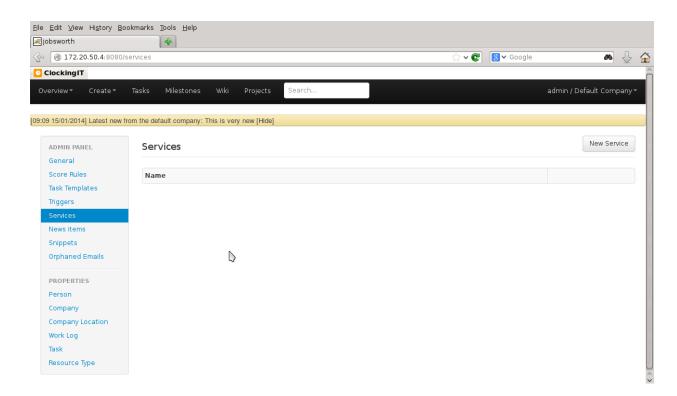


FIGURE 8.27: SERVICES

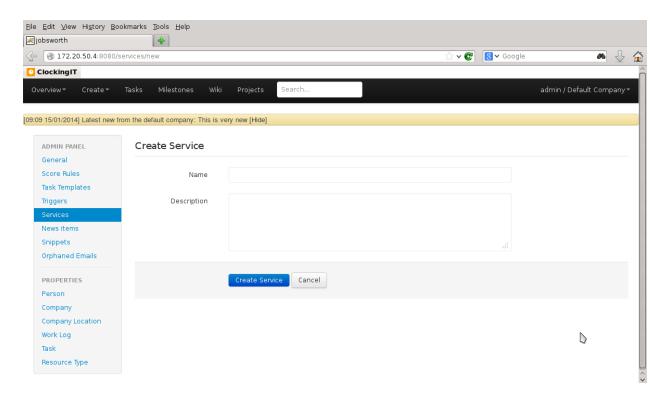


FIGURE 8.28: NEW SERVICE

41 Services jw40doc.140127

8.9.6 News Items

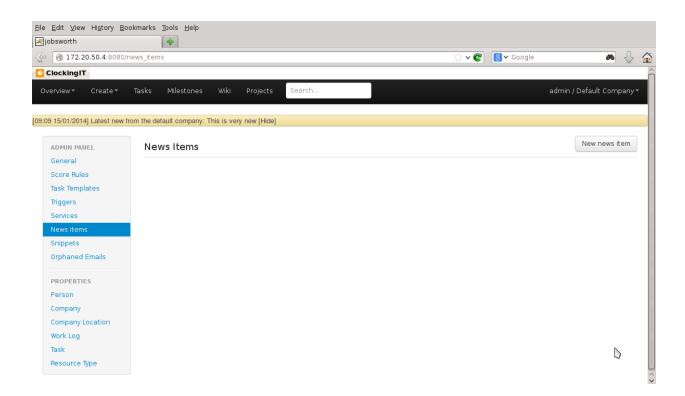


FIGURE 8.29: NEWS ITEMS

42 News Items jw40doc.140127

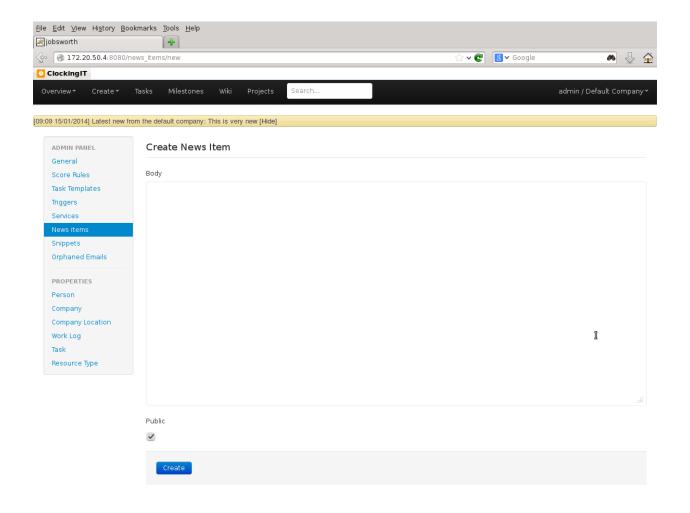


FIGURE 8.30: CREATE NEWS ITEM

News Items jw40doc.140127

8.9.7 Snippets

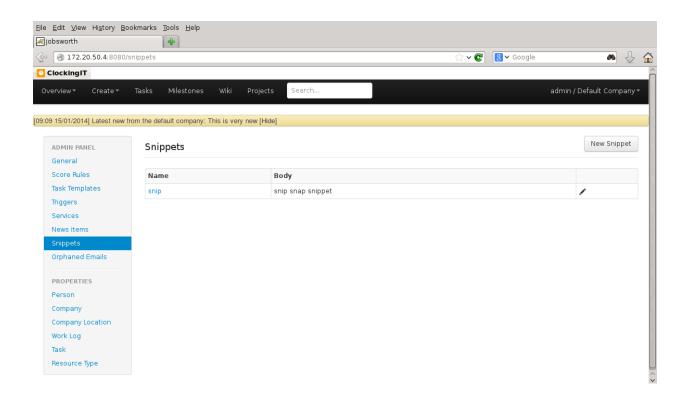


FIGURE 8.31: SNIPPETS

44 Snippets jw40doc.140127

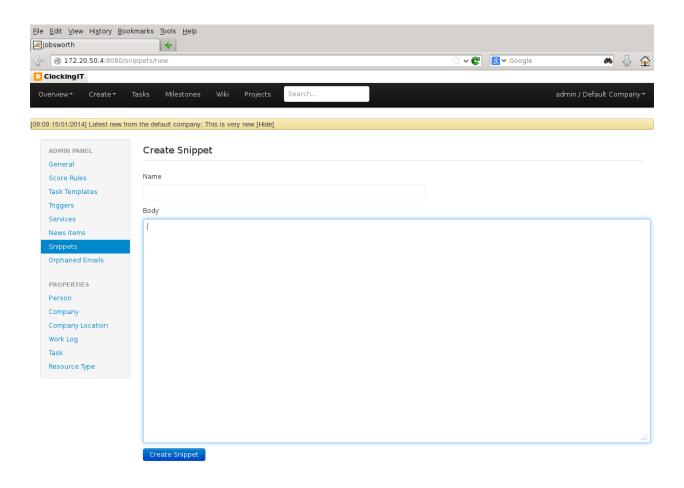


FIGURE 8.32: CREATE SNIPPET

45 Snippets jw40doc.140127

8.9.8 Orphaned E-Mails

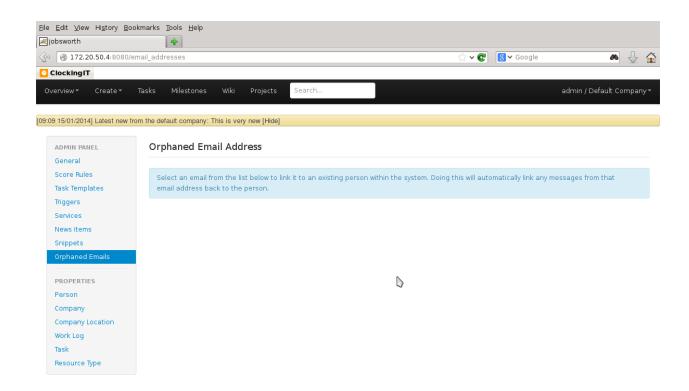


FIGURE 8.33: ORPHANED E-MAILS

46 Orphaned E-Mails jw40doc.140127

8.10 Company Properties

8.10.1 Person

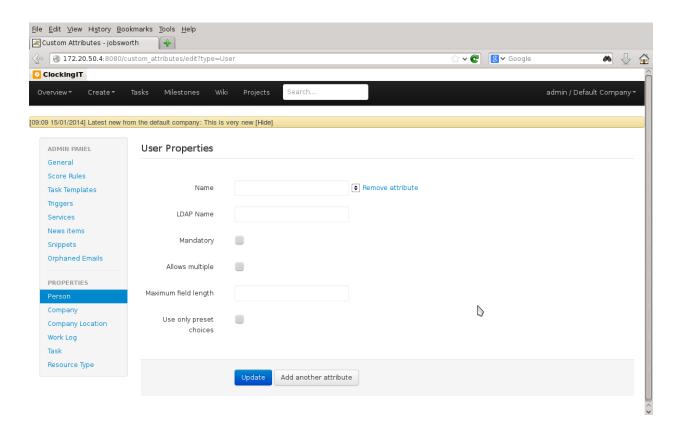


FIGURE 8.34: PERSON

47 Company Properties jw40doc.140127

8.10.2 Company

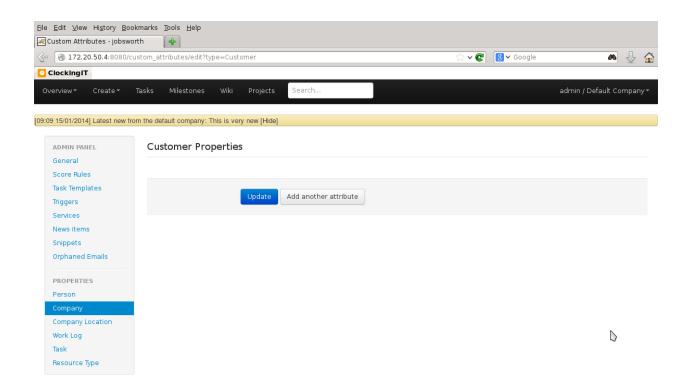


FIGURE 8.35: COMPANY

48 Company jw40doc.140127

8.10.3 Company Location

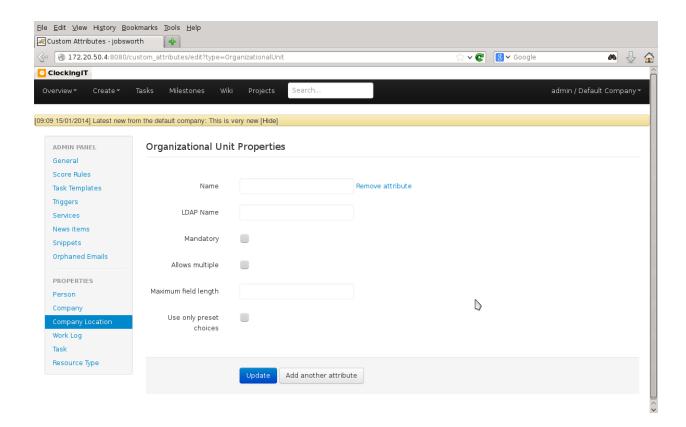


FIGURE 8.36: COMPANY LOCATION

49 Company Location jw40doc.140127

8.10.4 Work Log

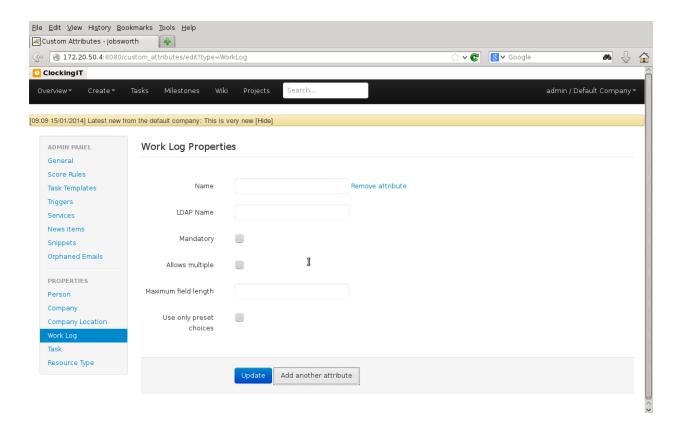


FIGURE 8.37: WORKLOG

50 Work Log jw40doc.140127

8.10.5 Task Properties

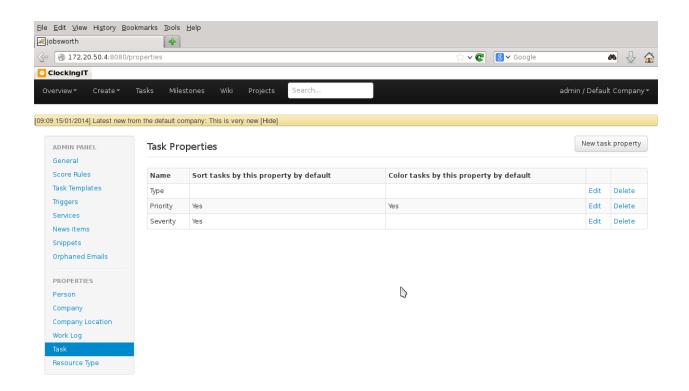


FIGURE 8.38: TASK PROPERTIES

Task Properties jw40doc.140127

8.10.6 Resource Type

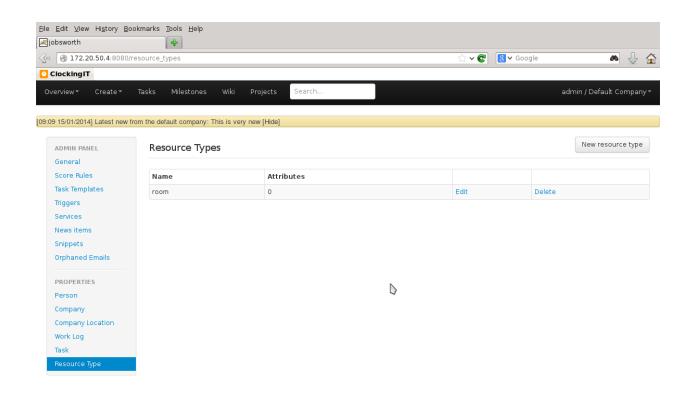


FIGURE 8.39: RESOURCE TYPE

S2 Resource Type jw40doc.140127

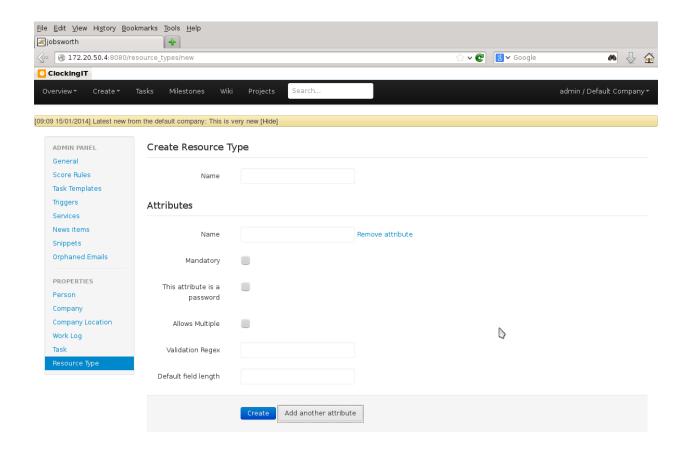


FIGURE 8.40: CREATE RESOURCE TYPE

Resource Type jw40doc.140127

9 Widgets

9.1 Filters

FIGURE 9.1: FILTER WIDGET

You will find the filter widget on many screens. It allows you to filter displayed content and therefore only show relevant information. Just select one of the predefined filters and it will appear within the task search widget (for more information see *Section 9.2.4, "Task Search"*).

- 9.2 Tasks
- 9.2.1 Newest Tasks
- 9.2.2 Next Tasks
- 9.2.3 Top Tasks
- 9.2.4 Task Search
- 9.3 Tags

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10 Workflow

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