

Jobsworth Project Management 4.0

jw40doc.140127

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
- accounting / 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 \(https://www.ohloh.net/p/jobsworth\)](https://www.ohloh.net/p/jobsworth) .

Support

The primary support is through the [mailing list \(https://groups.google.com/forum/#!forum/jobsworth\)](https://groups.google.com/forum/#!forum/jobsworth) or if you have a bug report, [create an issue \(https://github.com/ari/jobsworth/issues\)](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 \(https://github.com/ari/jobsworth/wiki\)](https://github.com/ari/jobsworth/wiki) .

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 \(https://groups.google.com/forum/#!forum/jobsworth-dev\)](https://groups.google.com/forum/#!forum/jobsworth-dev)  to discuss ideas or ask questions.

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 FreeBSD® 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

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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.

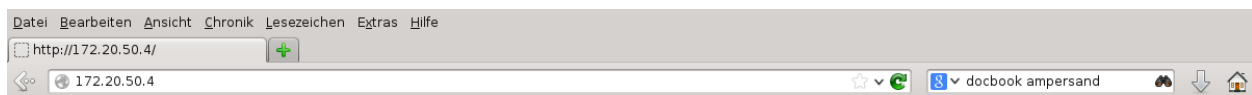
To enable the start of Apache Web-Server during start of your server, the following entry (depending on your OS and apache version) has to be inserted into your startup configuration file (e.g. /etc/rc.conf)

```
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 \(http://tomcat.apache.org/tomcat-7.0-doc/\)](http://tomcat.apache.org/tomcat-7.0-doc/) . 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 \(https://github.com/ari/jobsworth/blob/master/config/context.example.xml\)](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 \(https://github.com/ari/jobsworth/blob/master/config/context.example.xml\)](https://github.com/ari/jobsworth/blob/master/config/context.example.xml)  file for your reference!

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
This file is an example. You will need to customise it for your own needs, and
rename it
to context.xml. In Apache Tomcat it belongs inside a folder called -"config". ❶

You can change the mysql driver to postgresql and you will need to replace all the
variables
which look like this ${VARIABLE} either at runtime using a script, or by editing
this file
directly.
-->

<Context swallowOutput="true">
  <Resource name="jdbc/jobsworth"
    removeAbandoned="true"
```

```

        auth="Container" type="javax.sql.DataSource"
        maxActive="100" maxIdle="30" maxWait="10000"
        username="${DBUSER}" password="${DBPASS}" ❷
        driverClassName="com.mysql.jdbc.Driver" batchSize="-1"
        url="jdbc:mysql://${DBSERVER}:3306/${DBNAME}? ❸
autoReconnect=true&zeroDateTimeBehavior=convertToNull&useUnicode=true&characterEncoding=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.storerooot" value="/var/jobsworth/assets" override="false"/
>

    <!-- 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"
override="false"/>

<!-- Jobsworth email notification of errors --->
<Parameter name="config.error_email_prefix" value="'[jobsworth error]'"
override="false"/>
<Parameter name="config.error_sender_address" value="jobsworth@acme.com"
override="false"/>
<Parameter name="config.error_exception_recipients"
value="['support@example.com','sysadmin@example.com']" override="false"/>

</Context>

```

- ① 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.

- ④ 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 successful.

File Edit View History Bookmarks Tools Help

Apache Tomcat/7.0.40


172.20.50.4:8080

Home Documentation Configuration Examples Wiki Mailing Lists Find Help

Apache Tomcat/7.0.40

The Apache Software Foundation
<http://www.apache.org/>

If you're seeing this, you've successfully installed Tomcat. Congratulations!

 **Recommended Reading:**

- [Security Considerations HOW-TO](#)
- [Manager Application HOW-TO](#)
- [Clustering/Session Replication HOW-TO](#)

Server Status
Manager App
Host Manager

Developer Quick Start

- [Tomcat Setup](#)
- [Realms & AAA](#)
- [Examples](#)
- [Servlet Specifications](#)
- [First Web Application](#)
- [JDBC DataSources](#)
- [Tomcat Versions](#)

Managing Tomcat

For security, access to the [manager webapp](#) is restricted. Users are defined in:

```
$CATALINA_HOME/conf/tomcat-users.xml
```

In Tomcat 7.0 access to the manager application is split between different users. [Read more...](#)

- [Release Notes](#)
- [Changelog](#)
- [Migration Guide](#)
- [Security Notices](#)

Documentation

- [Tomcat 7.0 Documentation](#)
- [Tomcat 7.0 Configuration](#)
- [Tomcat Wiki](#)

Find additional important configuration information in:

```
$CATALINA_HOME/RUNNING.txt
```

Developers may be interested in:

- [Tomcat 7.0 Bug Database](#)
- [Tomcat 7.0 JavaDocs](#)
- [Tomcat 7.0 SVN Repository](#)

Getting Help

FAQ and Mailing Lists

The following mailing lists are available:

- announce@tomcat.apache.org
Important announcements, releases, security vulnerability notifications. (Low volume).
- users@tomcat.apache.org
User support and discussion
- taglibs-user@tomcat.apache.org
User support and discussion for [Apache Taglibs](#)
- dev@tomcat.apache.org
Development mailing list, including commit messages

Other Downloads

- [Tomcat Connectors](#)
- [Tomcat Native](#)
- [Taglibs](#)
- [Deployer](#)

Other Documentation

- [Tomcat Connectors](#)
- [mod_ik Documentation](#)
- [Tomcat Native](#)
- [Deployer](#)

Get Involved

- [Overview](#)
- [SVN Repositories](#)
- [Mailing Lists](#)
- [Wiki](#)

Miscellaneous

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- [Sponsorship](#)
- [Thanks](#)

Apache Software Foundation

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- [Heritage](#)
- [Apache Home](#)
- [Resources](#)

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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
```

and delete (or better rename) the subdirectory ROOT. Now copy the latest version of Jobsworth installation file **ROOT.war** (<https://github.com/ari/jobsworth/releases>) ↗ into the Tomcat web-directory. Finally enable Tomcat again with

```
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.

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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.

A 'Sign in' form with a light gray background. At the top, the text 'Sign in' is displayed. Below it, a red error message box contains the text 'Invalid user or password'. The form includes two input fields: 'Username' and 'Password'. Below the password field is a 'Remember me' checkbox. At the bottom, there is a 'Login' button and a link that says 'Forget your password?'.

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

here we are

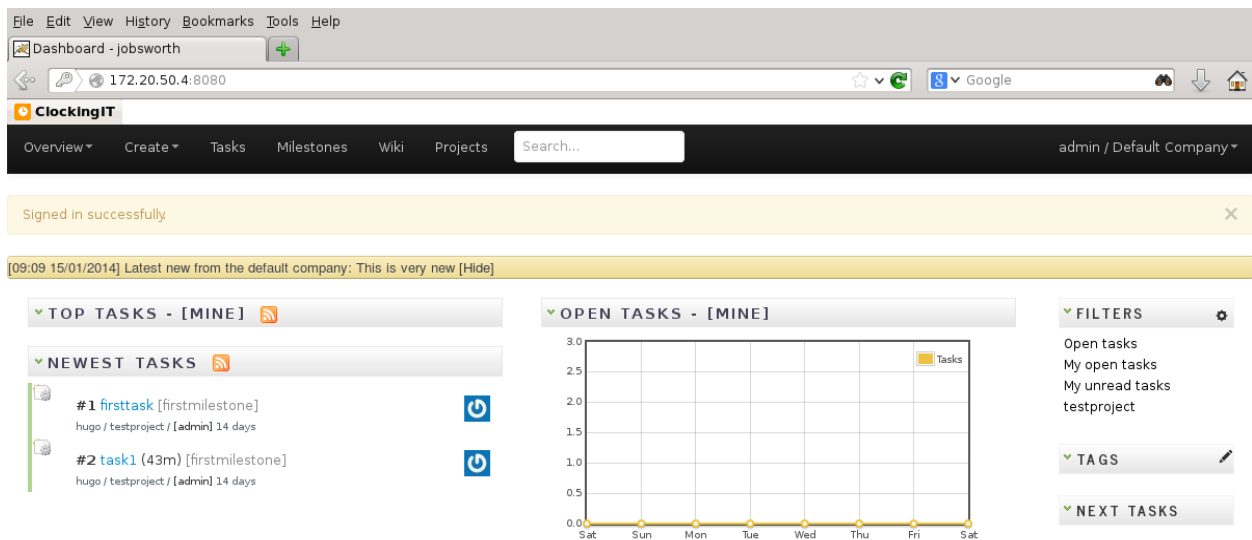


FIGURE 8.1: DASHBOARD

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.

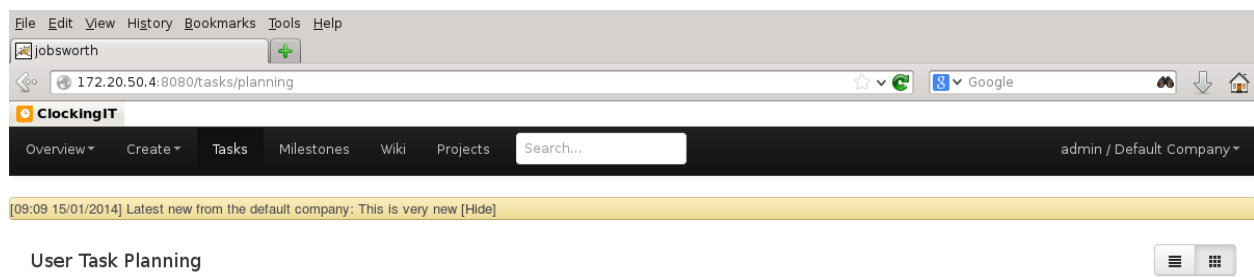


FIGURE 8.2: **PLANNING**

8.1.3 Billing

The screenshot shows a web browser window with the address bar displaying "172.20.50.4:8080/billing/list". The browser's menu bar includes "File", "Edit", "View", "History", "Bookmarks", "Tools", and "Help". The page title is "Billing - jobsworth". Below the browser window is a navigation bar for "ClockingIT" with links for "Overview", "Create", "Tasks", "Milestones", "Wiki", and "Projects", along with a search bar and a user profile "admin / Default Company". A yellow notification bar at the top of the page content area shows a timestamp "[09:09 15/01/2014]" and a message "Latest new from the default company: This is very new [Hide]". The main section is titled "Billing Reports". It contains a form with a "Time Sheet" dropdown menu. Below this is a "Report filter" section with four dropdown menus: "[Any Project]", "[Any User]", "[All]", and "This Week". There are two checkboxes, "Hide approved logs" and "Hide rejected logs", both of which are unchecked. A blue "Run Report" button is located at the bottom of the form.

FIGURE 8.3: BILLING

8.1.4 History

The screenshot displays the ClockingIT application interface. At the top, there is a menu bar with 'File', 'Edit', 'View', 'History', 'Bookmarks', 'Tools', and 'Help'. Below the menu bar, the browser address bar shows '172.20.50.4:8080/timeline/list'. The application header includes the 'ClockingIT' logo, navigation links for 'Overview', 'Create', 'Tasks', 'Milestones', 'Wiki', and 'Projects', a search bar, and a user profile 'admin / Default Company'. A yellow notification bar at the top states: '[09:09 15/01/2014] Latest new from the default company: This is very new [Hide]'. The main section is titled 'Timeline' and features filters for '[Any Project]', '[Any Type]', and 'Now', along with a 'Submit Query' button. The timeline lists activities for 'Wednesday, 15 January 2014'. On the right, there are sidebars for 'FILTERS' (listing 'Open tasks', 'My open tasks', 'My unread tasks', and 'testproject'), 'TAGS', and 'NEXT TASKS'. The timeline entries include timestamps, task names, user names, and project names.

Time	Task Name	User	Project
09:05	Frontpage	[admin]	
09:01	Frontpage	[admin]	
08:55	Frontpage	[admin]	
08:55	Frontpage	[admin]	
08:53	Frontpage	[admin]	
08:52	Frontpage	[admin]	
08:06	#2 task1	hugo / testproject / [admin]	
08:01	#1 firsttask	hugo / testproject / [admin]	
08:01	#1 firsttask	hugo / testproject / [admin]	
07:39	test	[admin]	
07:39	Frontpage	[admin]	

FIGURE 8.4: HISTORY

8.2 Create

8.2.1 Create Task

The screenshot shows the 'New Task' form in the ClockingIT application. The browser address bar shows '172.20.50.4:8080/tasks/new'. The application header includes a navigation menu with 'Overview', 'Create', 'Tasks', 'Milestones', 'Wiki', and 'Projects'. A search bar and user profile 'admin / Default Company' are also present. A yellow notification bar at the top states: '[09:09 15/01/2014] Latest new from the default company: This is very new [Hide]'. The main form area is divided into several sections:

- Task Name:** A large text input field labeled 'Enter task name...'. Below it is a smaller input field labeled 'Add a todo item...'.
- Task Description:** A large text area labeled 'Enter task description...'. Below it is a smaller text area labeled 'Add a comment...'.
- Task Details:** A series of dropdown menus for 'Project' (Please select), 'Milestone' ([None]), 'Time Estimate' (1h (default)), 'Target Date', and 'Resolution' (Open).
- Attributes:** A section containing several dropdown menus: 'Tags', 'Type' (Task), 'Priority' (Normal), 'Severity' (Normal), and 'Service' ([None]). A 'billable' checkbox is also present.
- Notifications:** A section with a 'Companies' dropdown and a 'Users To Notify' list containing 'admin'.
- Snooze until:** A section with a 'Until customer responds' checkbox and a 'Snooze until' date picker.
- Resources:** A section with a 'Linked Resources' dropdown.

On the right side of the form, there is a sidebar with three sections:

- FILTERS:** A section with a gear icon and a list of filters: 'Open tasks', 'My open tasks', 'My unread tasks', and 'testproject'.
- TAGS:** A section with a pencil icon and a list of tags: 'testproject'.
- NEXT TASKS:** A section with a list of tasks.

FIGURE 8.5: CREATE TASK

8.2.2 Create Project

The screenshot shows a web browser window with the address bar displaying '172.20.50.4:8080/projects/new'. The browser's title bar says 'New Project - jobsworth'. The page header for 'ClockingIT' includes navigation links: Overview, Create, Tasks, Milestones, Wiki, and Projects, along with a search bar and a user profile 'admin / Default Company'. A yellow notification bar at the top reads: '[09:09 15/01/2014] Latest new from the default company: This is very new [Hide]'. The main content area is titled 'New Project' and contains the following form fields:

- Name:** A text input field.
- Company:** A text input field with a small icon to its right.
- Default Estimate:** A text input field containing the value '1.0'.
- Description:** A large text area for project details.
- Copy permissions from:** A dropdown menu currently set to 'None'.

A blue 'Create' button is located at the bottom of the form. On the right side of the page, there are three expandable sections:

- FILTERS:** Includes links for 'Open tasks', 'My open tasks', 'My unread tasks', and 'testproject'.
- TAGS:** A section with a pencil icon for editing.
- NEXT TASKS:** A section for upcoming tasks.

FIGURE 8.6: CREATE PROJECT

8.2.3 Create Milestone

The screenshot shows a web browser window with the address bar displaying '172.20.50.4:8080/milestones/new'. The browser's address bar also shows 'New Milestone : jobsworth'. The application's navigation bar includes 'Overview', 'Create', 'Tasks', 'Milestones', 'Wiki', and 'Projects', along with a search bar and the user 'admin / Default Company'. A status bar at the top shows the time '09:09 15/01/2014' and a message 'Latest new from the default company: This is very new [Hide]'. The main content area is titled 'New Milestone' and contains a form with the following fields: 'Project' (a dropdown menu with 'testproject' selected), 'Name' (a text input field), 'Status' (a dropdown menu with 'planning' selected, with a tooltip that reads 'planning (can add tasks, all tasks are snoozed)'), 'Due Date' (a text input field), and 'Description' (a large text area). A 'Create' button is located at the bottom of the form. On the right side of the form, there are three sections: 'FILTERS' (with a gear icon and a list of 'Open tasks', 'My open tasks', 'My unread tasks', and 'testproject'), 'TAGS' (with a pencil icon), and 'NEXT TASKS'.

FIGURE 8.7: CREATE MILESTONE

8.2.4 Create Person

The screenshot shows a web browser window with the address bar displaying '172.20.50.4:8080/users/new'. The browser's user interface includes a menu bar (File, Edit, View, History, Bookmarks, Tools, Help), a toolbar with a search icon, and a status bar showing 'admin / Default Company'. The page title is 'ClockingIT'. The main content area is titled 'New user' and contains a form with the following fields and controls:

- Name:** A text input field.
- Email:** A text input field.
- Username:** A text input field.
- Password:** A text input field.
- Company:** A text input field with a small circular icon to its right.
- color:** A dropdown menu currently showing 'blue'.
- Send welcome email:** A checkbox that is currently unchecked.
- Signup Message:** A large text area with the placeholder text 'input welcome message here'. Below the text area, a small note reads: 'The message will be included in the signup email.'
- Copy permissions from:** A dropdown menu currently showing 'No one'.

At the bottom of the form is a blue button labeled 'Create'.

FIGURE 8.8: CREATE PERSON

8.2.5 Create Company

The screenshot shows a web browser window with the address bar displaying '172.20.50.4:8080/customers/new'. The browser's address bar also shows 'New Customer - jobsworth' and a green plus icon. The browser's search bar contains 'Google'. The application's header bar is black with the 'ClockingIT' logo on the left and a search bar with 'Search...' in the center. The user is logged in as 'admin / Default Company'. Below the header, a yellow notification bar displays the message: '[09:09 15/01/2014] Latest new from the default company: This is very new [Hide]'. The main content area is titled 'New Customer' and contains a form with the following fields: 'Name' (text input), 'Contact name' (text input), and 'Active' (checkbox, checked). A blue 'Create' button is located at the bottom of the form. On the right side of the form, there are three expandable sections: 'FILTERS' (with a gear icon), 'TAGS' (with a pencil icon), and 'NEXT TASKS'. The 'FILTERS' section is expanded, showing a list of filters: 'Open tasks', 'My open tasks', 'My unread tasks', and 'testproject'. The 'TAGS' section is also expanded, showing a list of tags: 'Open tasks', 'My open tasks', 'My unread tasks', and 'testproject'. The 'NEXT TASKS' section is collapsed.

FIGURE 8.9: CREATE COMPANY

8.2.6 Create Resource

The screenshot shows a web browser window with the address bar displaying '172.20.50.4:8080/resources/new'. The browser's title bar says 'New Resource - New Resource - j...'. The page header for 'ClockingIT' includes a navigation menu with 'Overview', 'Create', 'Tasks', 'Milestones', 'Wiki', and 'Projects', along with a search bar and a user profile 'admin / Default Company'. A status bar at the top shows a timestamp and a message: '[09:09 15/01/2014] Latest new from the default company: This is very new [Hide]'. The main content area is titled 'New Resource' and contains several input fields: 'Name', 'Company' (with a link icon), 'Parent Resource', 'Type' (a dropdown menu), 'Active' (a checked checkbox), and 'Notes' (a large text area). To the right of the form are three sidebar sections: 'FILTERS' with a settings gear icon and a list of 'Open tasks', 'My open tasks', 'My unread tasks', and 'testproject'; 'TAGS' with an edit icon; and 'NEXT TASKS'. At the bottom of the form, under the 'Attributes' section, is a blue 'Create' button.

FIGURE 8.10: CREATE RESOURCE

8.3 Tasks

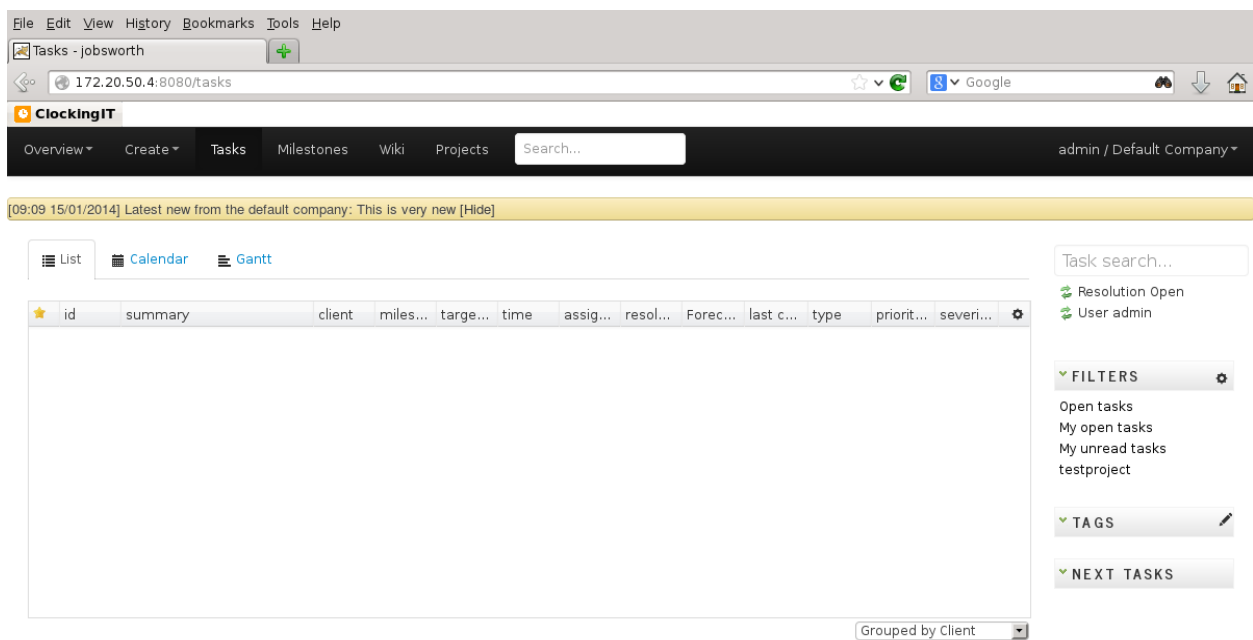


FIGURE 8.11: TASKS

8.4 Milestones

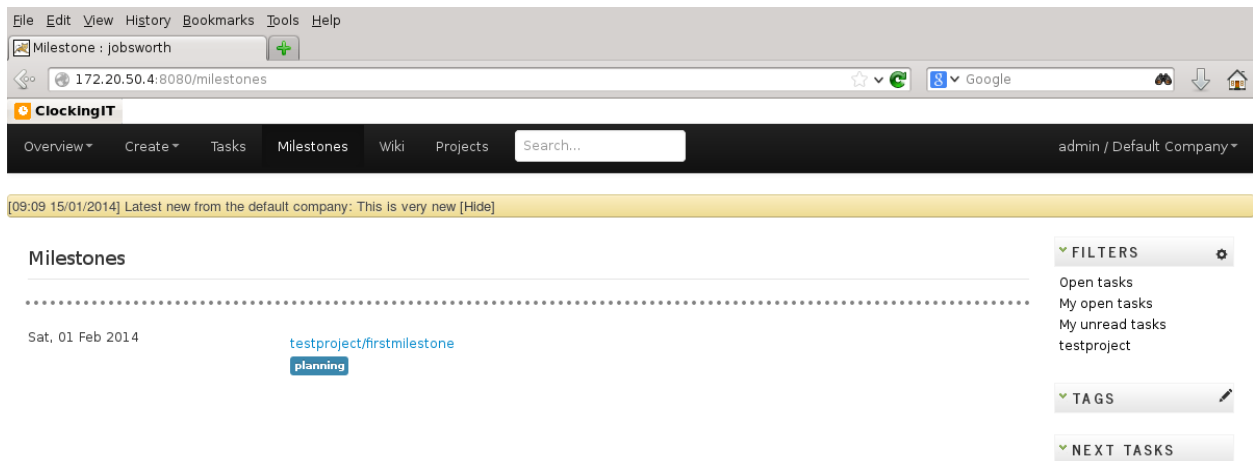


FIGURE 8.12: MILESTONES

8.5 Wiki

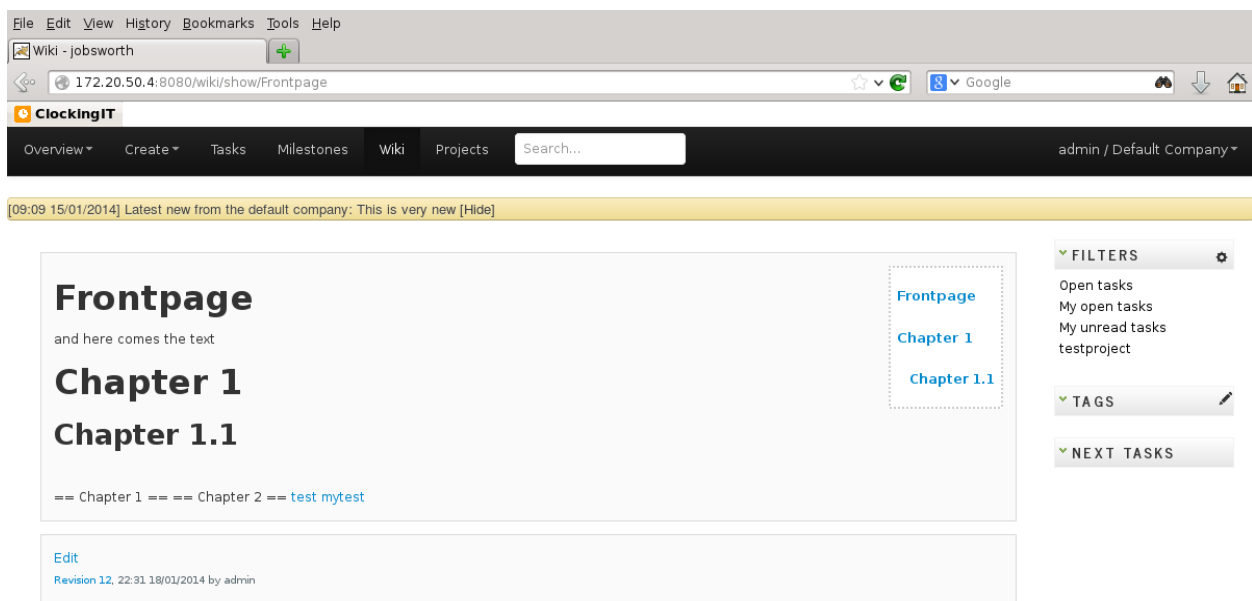


FIGURE 8.13: WIKI

8.6 Projects

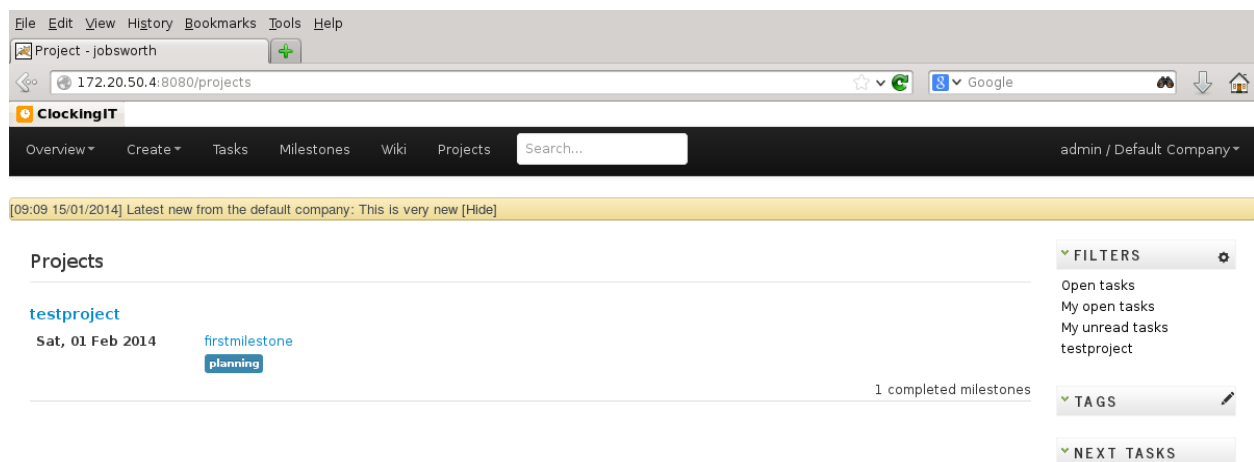


FIGURE 8.14: PROJECTS

8.7 MyAccount

8.7.1 General

The screenshot shows a web browser window with the URL `172.20.50.4:8080/users/1/edit`. The page title is "ClockingIT". The navigation bar includes "Overview", "Create", "Tasks", "Milestones", "Wiki", "Projects", and a search bar. The user is logged in as "admin / Default Company". A yellow banner at the top of the main content area reads: "[09:09 15/01/2014] Latest new from the default company: This is very new [Hide]".

The main content area is titled "admin" and has a "View Tasks" button. On the left is a sidebar menu with the following items: "ADMIN", "General" (selected), "Access Control", "Email Addresses", "Task Filters", "Projects Permissions", and "Work Plan".

The "General" tab contains the following fields and options:

- Name:
- Username:
- Password:
- Company:
- color:
- New Avatar: No file selected.
(Will be resized to 25x25 and 50x50 while preserving aspect ratio)
- Language:
- Location:
- Receive Notifications: ☒
- Receive Own Notifications: ☒
- Automatically add this user to tasks for: ☐
- Active: ☒
- Time Format:
- Date Format:
- Track Time: ☒
- Show Avatars: ☒

FIGURE 8.15: GENERAL

8.7.2 Access Control

The screenshot shows the ClockingIT web application interface. The browser address bar displays '172.20.50.4:8080/users/1/access'. The application header includes a navigation menu with 'Overview', 'Create', 'Tasks', 'Milestones', 'Wiki', and 'Projects', along with a search bar and the user 'admin / Default Company'. A yellow notification bar at the top states: '[09:09 15/01/2014] Latest new from the default company: This is very new [Hide]'. On the left, the 'ADMIN' sidebar has 'Access Control' selected. The main content area is titled 'admin' and features a 'View Tasks' button. The permissions table for the 'admin' user is as follows:

Administrator	<input checked="" type="checkbox"/>
Can Create Projects	<input checked="" type="checkbox"/>
Read client details	<input checked="" type="checkbox"/>
Create clients	<input checked="" type="checkbox"/>
Edit client details	<input checked="" type="checkbox"/>
Approve work logs	<input checked="" type="checkbox"/>
Access Resources	<input checked="" type="checkbox"/>
Comment access level	<input type="text" value=""/>
Widget Key	916feaf369f78f88e1c8fd70a9f7f3e0

A 'Save' button is located at the bottom of the form.

FIGURE 8.16: ACCESS CONTROL

8.7.3 E-Mail Addresses

The screenshot shows the ClockingIT web application interface. The browser address bar displays '172.20.50.4:8080/users/1/emails'. The application header is identical to the previous screenshot. The 'ADMIN' sidebar on the left has 'Email Addresses' selected. The main content area is titled 'admin' and features a 'View Tasks' button. The email address management section shows a list with one entry: 'admin@example.org' with a 'Default' status. Below the list is an input field labeled 'input email address' and an 'Add' button.

FIGURE 8.17: E-MAIL ADDRESSES

8.7.4 Task Filters

The screenshot shows the ClockingIT web application interface. The top navigation bar includes 'Overview', 'Create', 'Tasks', 'Milestones', 'Wiki', and 'Projects'. The user is logged in as 'admin / Default Company'. A sidebar on the left lists administrative options: 'ADMIN', 'General', 'Access Control', 'Email Addresses', 'Task Filters' (selected), 'Projects Permissions', and 'Work Plan'. The main content area is titled 'admin' and shows 'Shared filters' with the message 'No one has shared their filters with you.' Below this, 'My filters' are listed, showing a single filter named 'testproject Shared' with 'Hide' and 'Delete' actions.

FIGURE 8.18: TASK FILTERS

8.7.5 Projects Permissions

The screenshot shows the ClockingIT web application interface for the 'Projects Permissions' section. The top navigation bar is the same as in Figure 8.18. The sidebar on the left has 'Projects Permissions' selected. The main content area is titled 'admin' and features a 'New user' button. Below the header is a table showing permissions for the 'testproject'.

Project	Read	Comment	Work	Close	See Unwatched	Create	Edit	Assign	Milestone	Reports	Grant	All
testproject	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Below the table, there is a section 'Add project to user' with an input field.

FIGURE 8.19: PROJECTS PERMISSIONS

8.7.6 Work Plan

The screenshot shows the ClockingIT web application interface. At the top is a browser window with the address bar showing '172.20.50.4:8080/users/1/workplan'. Below the browser is the application header with the 'ClockingIT' logo and navigation links: Overview, Create, Tasks, Milestones, Wiki, Projects, and a search bar. The user 'admin' is logged in, and the company is 'Default Company'. A status bar at the top indicates the time is 09:09 on 15/01/2014 and shows a message: 'Latest new from the default company: This is very new [Hide]'. On the left is a sidebar menu with options: ADMIN, General, Access Control, Email Addresses, Task Filters, Projects Permissions, and Work Plan (which is selected). The main content area is titled 'admin' and includes a 'New user' button. It is divided into two columns: 'Recent work' and 'Next Tasks'. The 'Recent work' column lists four tasks: 'last Wed #2 task1 (43m spent)', 'last Wed #2 task1 (43m spent)', 'last Wed #1 firsttask (0m spent)', and 'last Wed #1 firsttask (0m spent)'. The 'Next Tasks' column is currently empty. Below these columns is a 'Work Plan' section with a table showing hours for each day of the week. The table has columns for Mon, Tue, Wed, Thu, Fri, Sat, and Sun. The values are: Mon (8.0), Tue (8.0), Wed (8.0), Thu (8.0), Fri (8.0), Sat (0.0), and Sun (0.0). An 'Update' button is located below the table.

ADMIN
General
Access Control
Email Addresses
Task Filters
Projects Permissions
Work Plan

admin [New user](#)

Recent work

- last Wed #2 task1 (43m spent)
- last Wed #2 task1 (43m spent)
- last Wed #1 firsttask (0m spent)
- last Wed #1 firsttask (0m spent)

Next Tasks

Work Plan

Mon	Tue	Wed	Thu	Fri	Sat	Sun
8.0	8.0	8.0	8.0	8.0	0.0	0.0

[Update](#)

FIGURE 8.20: WORK PLAN

8.8 Company Admin

8.8.1 General

The screenshot displays the 'Company Settings - General' page in the ClockingIT application. The browser address bar shows '172.20.50.4:8080/companies/1/edit'. The application header includes a menu with 'Overview', 'Create', 'Tasks', 'Milestones', 'Wiki', and 'Projects', along with a search bar and the user 'admin / Default Company'. A yellow notification bar at the top states: '[09:09 15/01/2014] Latest new from the default company: This is very new [Hide]'. The left sidebar, titled 'ADMIN PANEL', lists 'General' (selected), 'Score Rules', 'Task Templates', 'Triggers', 'Services', 'News items', 'Snippets', and 'Orphaned Emails'. Below these are 'PROPERTIES' including 'Person', 'Company', 'Company Location', 'Work Log', 'Task', and 'Resource Type'. The main content area, 'Company Settings', contains the following fields:

- Company name:** A text input field containing 'Default Company'.
- Use Wiki:** A checked checkbox.
- Use Resources:** A checked checkbox.
- Use Billing:** A checked checkbox.
- Use Score Rules:** A checked checkbox.
- Suppressed email addresses:** A large text area for entering email addresses, with a note below: '(seperate emails by comma or new line)'.
- Incoming Email Project:** A dropdown menu.
- New Logo:** A 'Browse...' button and the text 'No file selected.', with a note below: '(250x50px should look good. The logo will be shown up top instead of the Jobsworth one, and on your login page.)'

A blue 'Save' button is located at the bottom of the settings area.

FIGURE 8.21: GENERAL

8.8.2 Score Rules

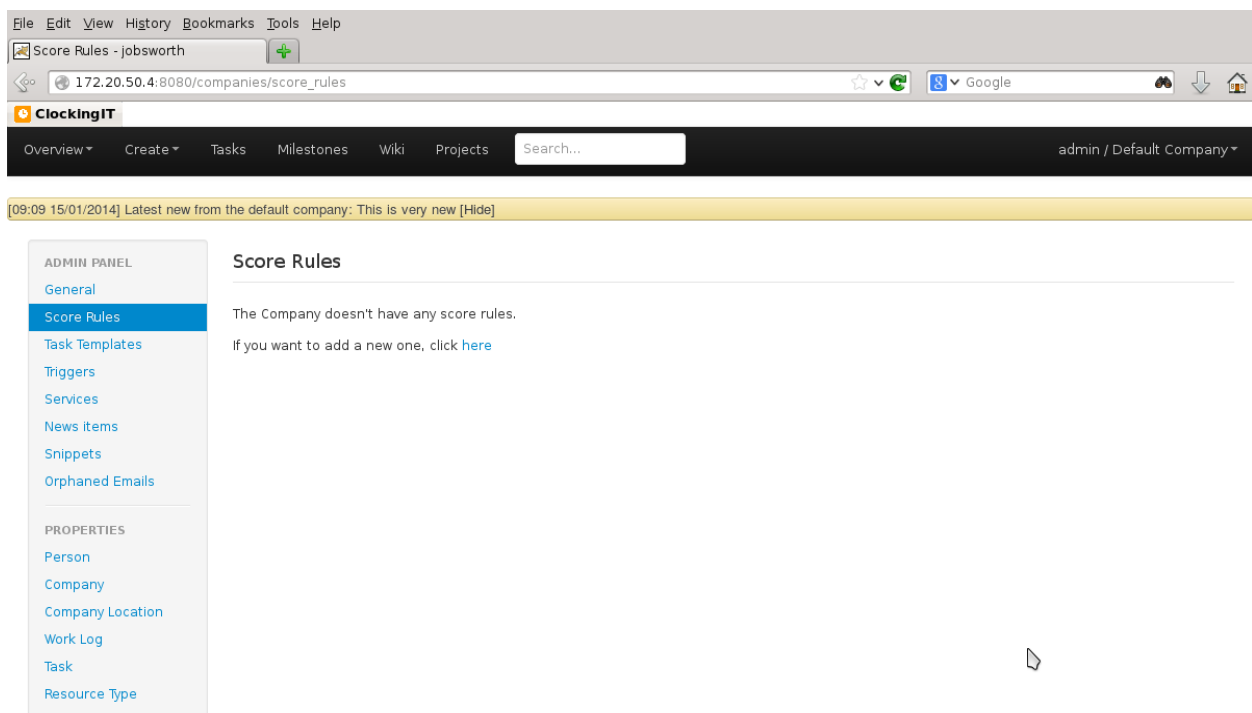


FIGURE 8.22: SCORE RULES

8.8.3 Task Templates

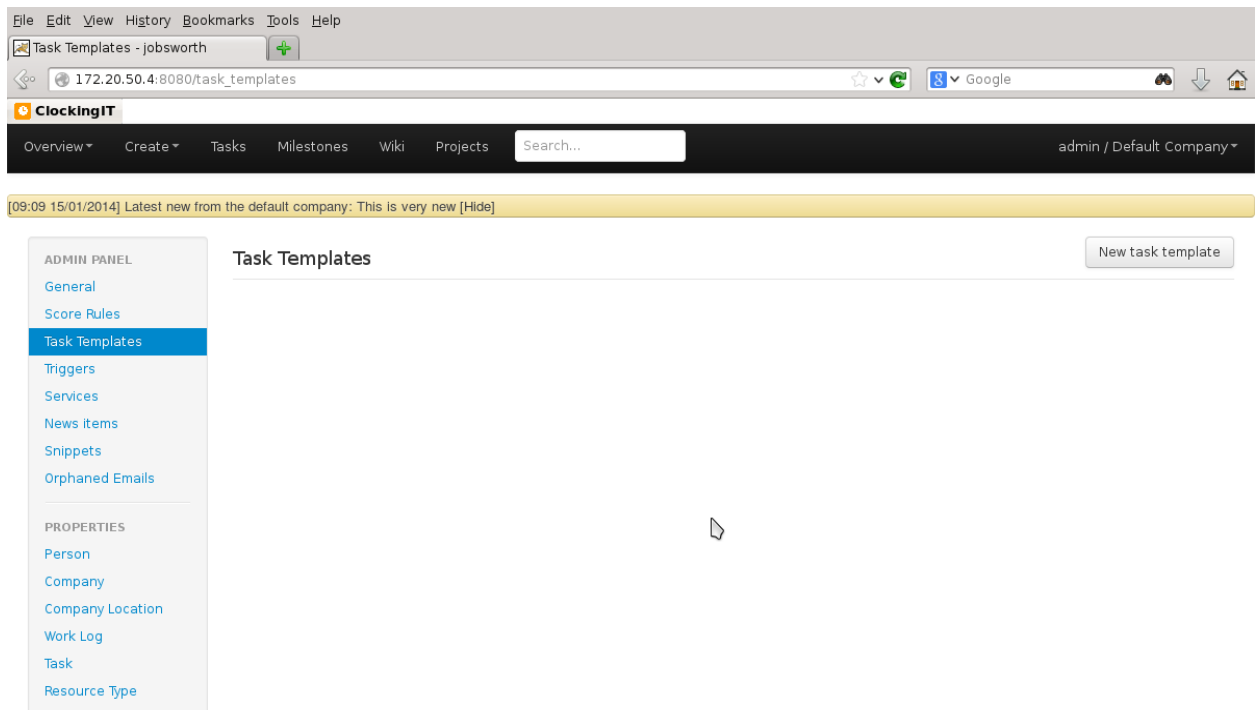


FIGURE 8.23: TASK TEMPLATES

File Edit View History Bookmarks Tools Help

New Task - jobsworth

172.20.50.4:8080/task_templates/new

ClockingIT

Overview Create Tasks Milestones Wiki Projects Search... admin / Default Company

[09:09 15/01/2014] Latest new from the default company: This is very new [Hide]

Enter task name...

Add a todo item...

Project Please select

Milestone [None]

Time 1h (default)

Estimate

Target Date

Resolution Open

Save

Enter task description...

FILTERS

Open tasks

My open tasks

My unread tasks

testproject

TAGS

NEXT TASKS

Attributes

Tags

Type Task

Priority Normal

Severity Normal

Service [None]

billable

Notifications

Companies

Users To Notify

admin

FIGURE 8.24: NEW TASK TEMPLATE

8.8.4 Triggers

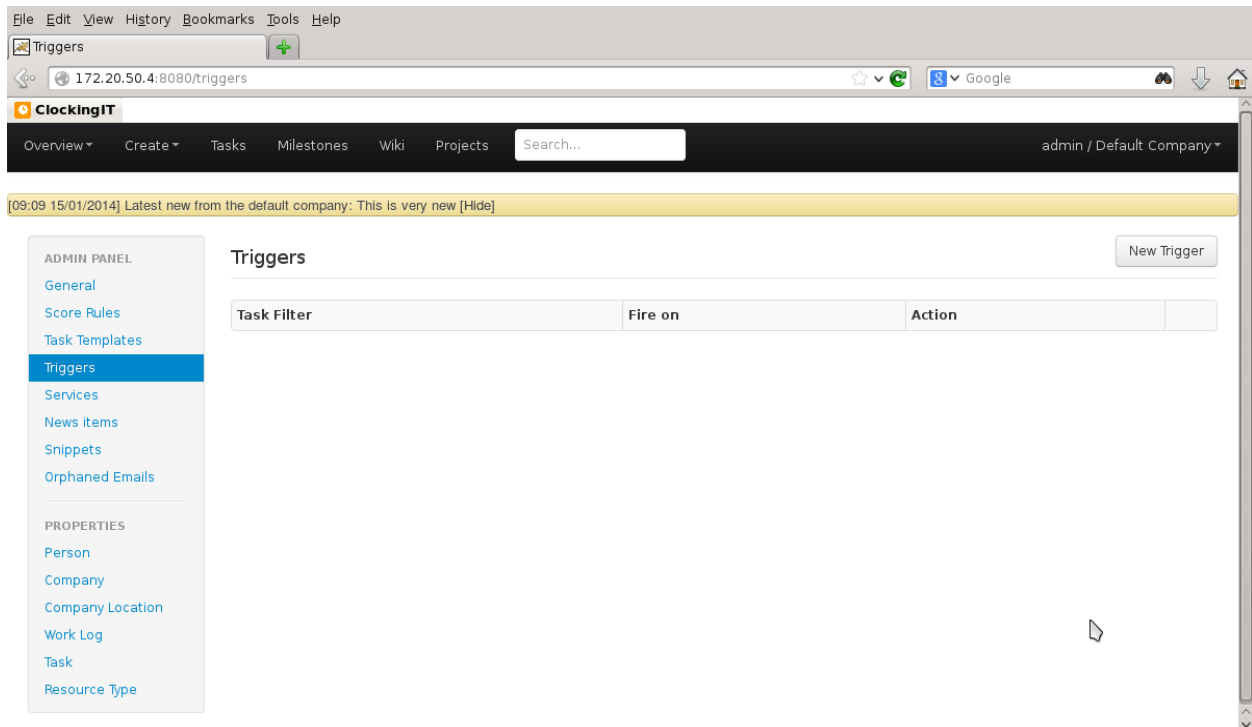


FIGURE 8.25: TRIGGERS

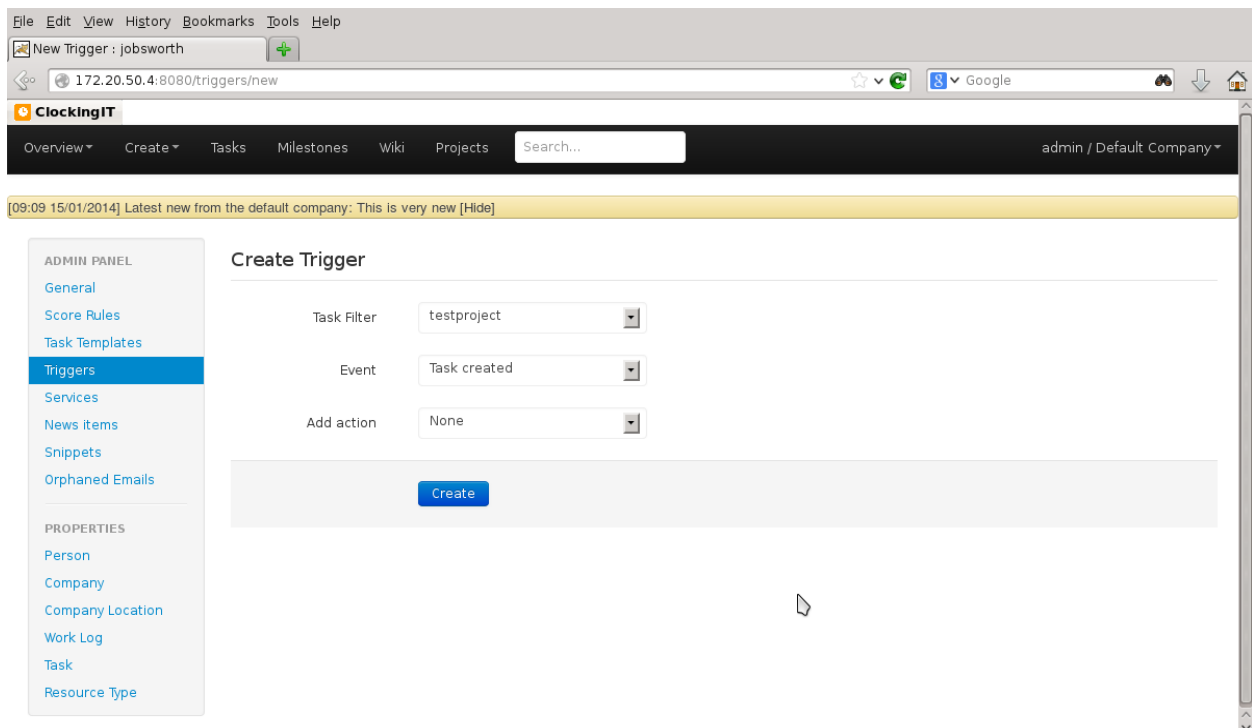


FIGURE 8.26: NEW TRIGGER

8.8.5 Services

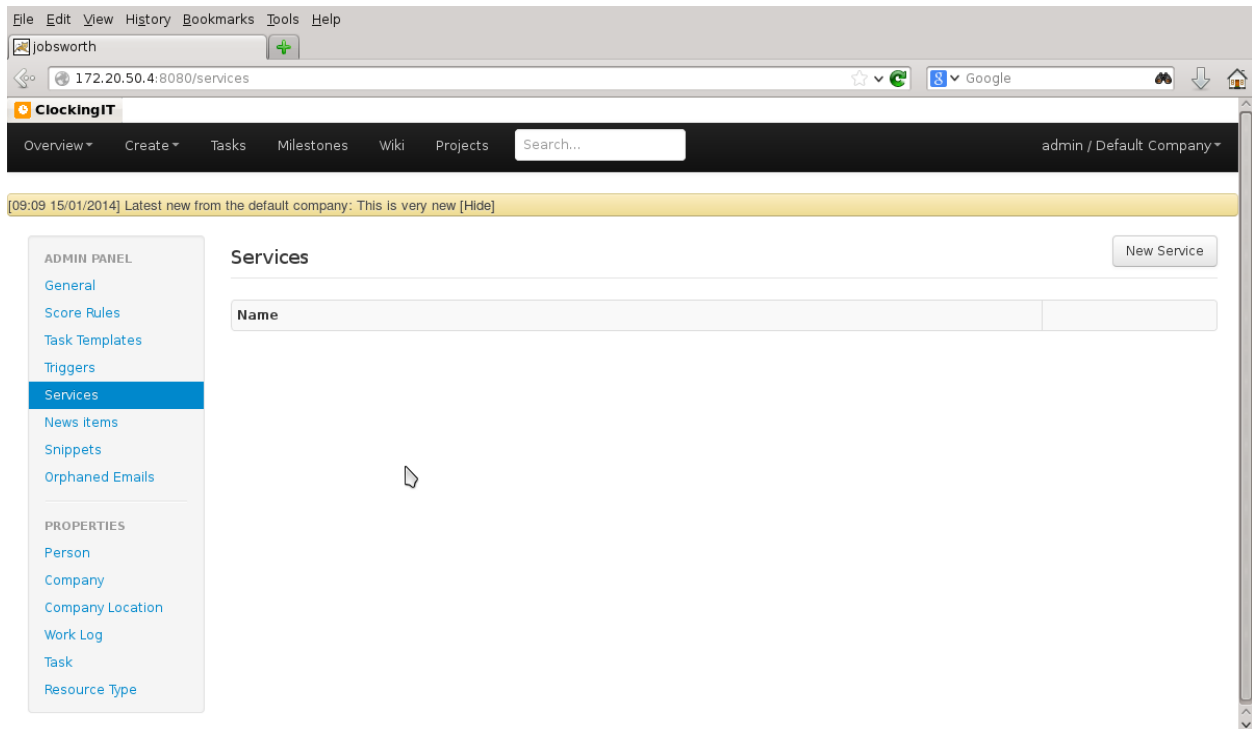


FIGURE 8.27: SERVICES

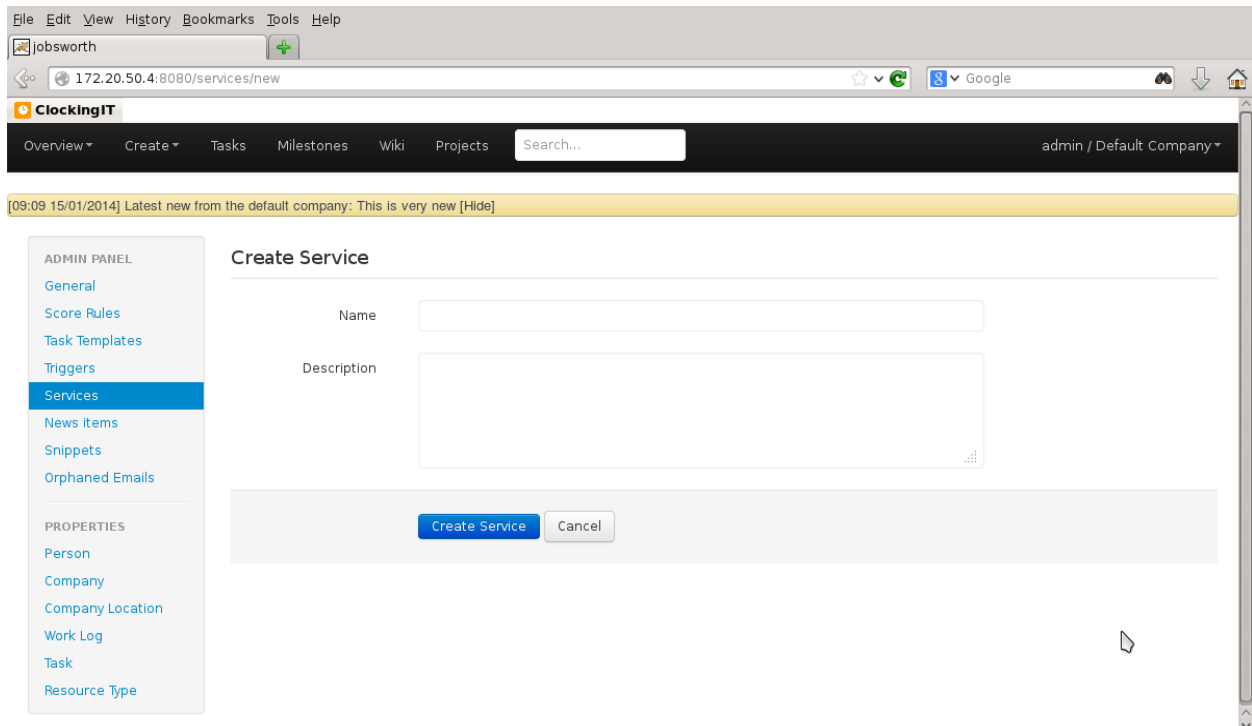


FIGURE 8.28: NEW SERVICE

8.8.6 News Items

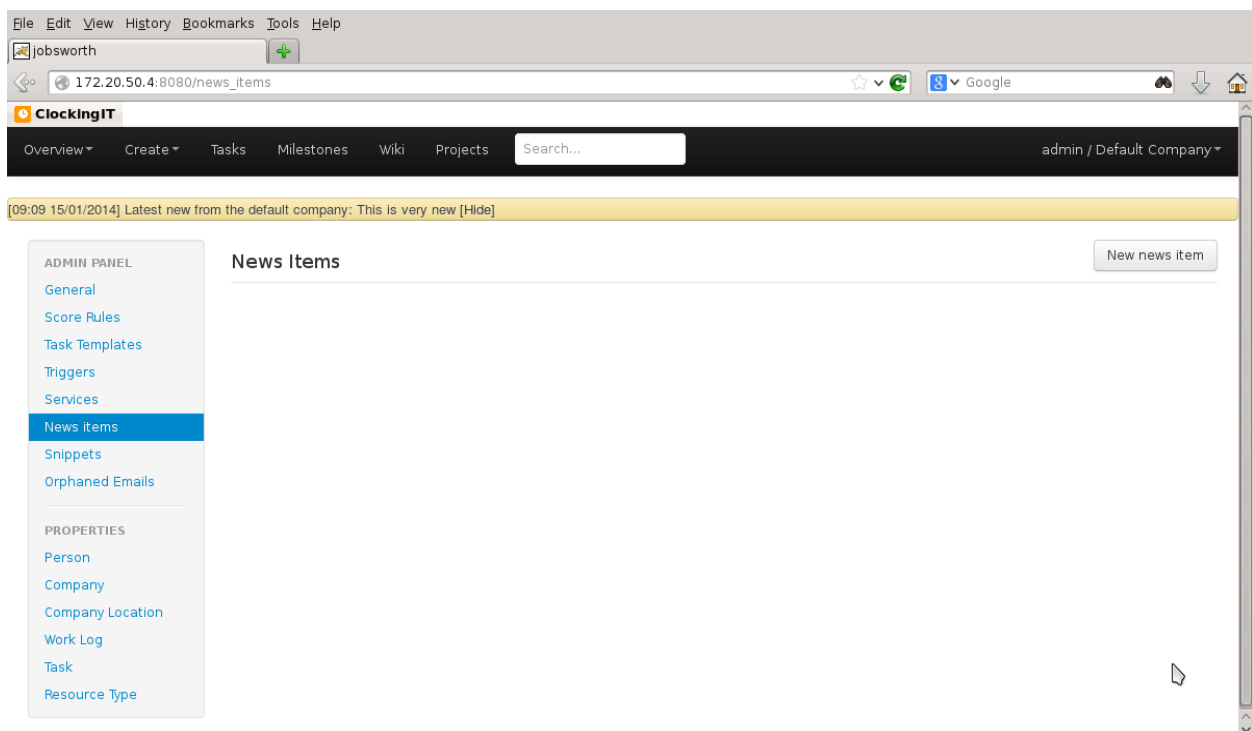


FIGURE 8.29: NEWS ITEMS

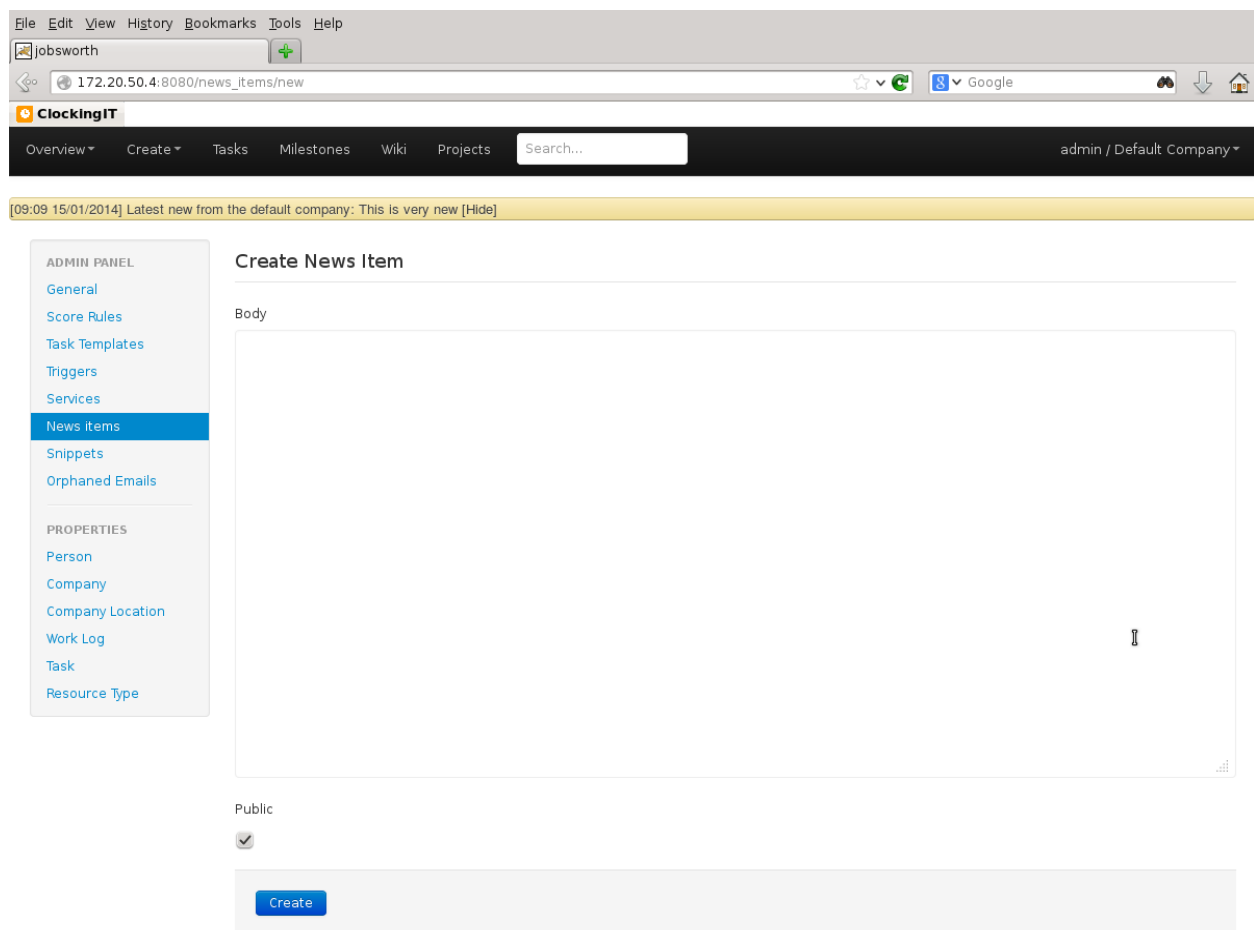


FIGURE 8.30: CREATE NEWS ITEM

8.8.7 Snippets

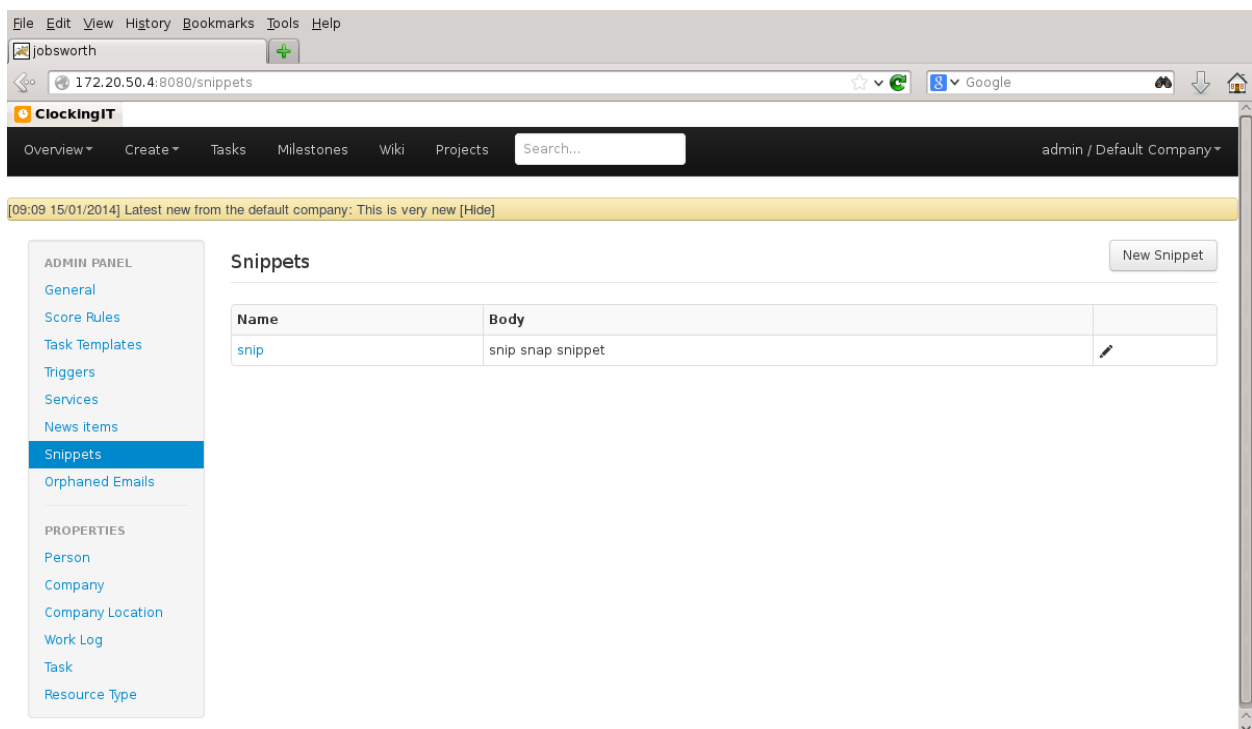


FIGURE 8.31: SNIPPETS

File Edit View History Bookmarks Tools Help

jobsworth

172.20.50.4:8080/snippets/new

ClockingIT

Overview Create Tasks Milestones Wiki Projects Search... admin / Default Company

[09:09 15/01/2014] Latest new from the default company: This is very new [Hide]

ADMIN PANEL

- General
- Score Rules
- Task Templates
- Triggers
- Services
- News Items
- Snippets**
- Orphaned Emails

PROPERTIES

- Person
- Company
- Company Location
- Work Log
- Task
- Resource Type

Create Snippet

Name

Body

Create Snippet

FIGURE 8.32: CREATE SNIPPET

8.8.8 Orphaned E-Mails

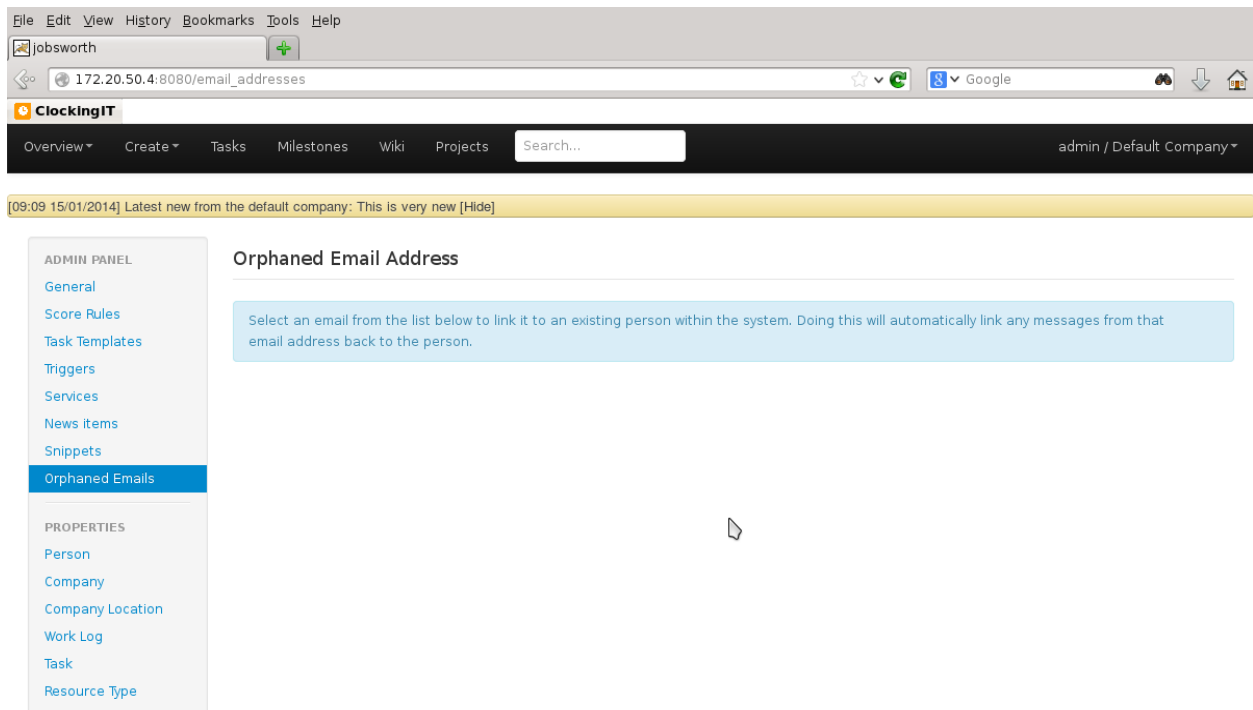


FIGURE 8.33: ORPHANED E-MAILS

8.9 Company Properties

8.9.1 Person

The screenshot shows a web browser window with the address bar displaying `172.20.50.4:8080/custom_attributes/edit?type=User`. The page title is "Custom Attributes - jobsworth". The application header includes a navigation menu with "Overview", "Create", "Tasks", "Milestones", "Wiki", and "Projects", along with a search bar and a user profile "admin / Default Company". A yellow banner at the top of the main content area reads: "[09:09 15/01/2014] Latest new from the default company: This is very new [Hide]".

The main content area is titled "User Properties" and contains a form for editing user attributes. The form is organized into two sections: "ADMIN PANEL" and "PROPERTIES".

ADMIN PANEL

- General
- Score Rules
- Task Templates
- Triggers
- Services
- News items
- Snippets
- Orphaned Emails

PROPERTIES

- Person** (selected)
- Company
- Company Location
- Work Log
- Task
- Resource Type

The "User Properties" form includes the following fields and controls:

- Name**: A text input field with a "Remove attribute" link next to it.
- LDAP Name**: A text input field.
- Mandatory**: A checkbox.
- Allows multiple**: A checkbox.
- Maximum field length**: A text input field.
- Use only preset choices**: A checkbox.

At the bottom of the form, there are two buttons: "Update" and "Add another attribute".

FIGURE 8.34: PERSON

8.9.2 Company

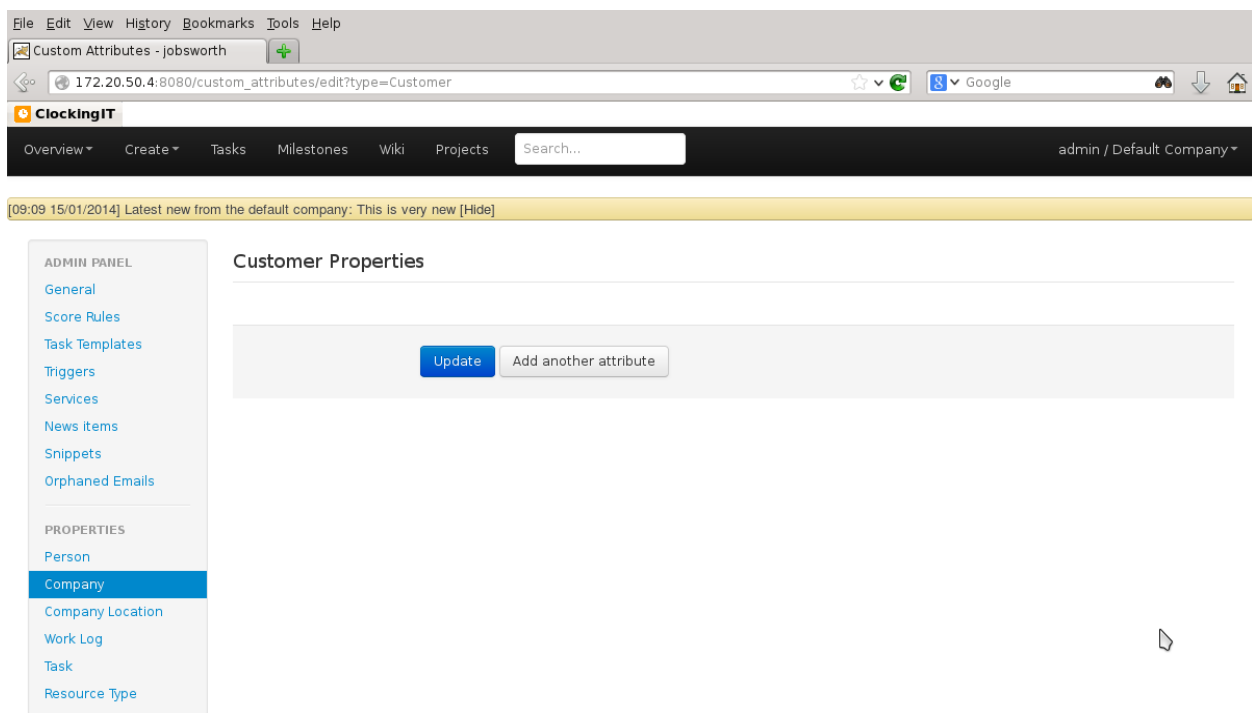


FIGURE 8.35: COMPANY

8.9.3 Company Location

The screenshot shows a web browser window with the address bar displaying `172.20.50.4:8080/custom_attributes/edit?type=OrganizationalUnit`. The page title is "Custom Attributes - jobsworth". The application header includes a menu with "Overview", "Create", "Tasks", "Milestones", "Wiki", and "Projects", along with a search bar and a user profile "admin / Default Company". A notification bar at the top states: "[09:09 15/01/2014] Latest new from the default company: This is very new [Hide]".

The main content area is titled "Organizational Unit Properties". On the left, there is a sidebar menu with two sections: "ADMIN PANEL" and "PROPERTIES". The "ADMIN PANEL" section includes links for "General", "Score Rules", "Task Templates", "Triggers", "Services", "News Items", "Snippets", and "Orphaned Emails". The "PROPERTIES" section includes links for "Person", "Company", "Company Location" (which is highlighted), "Work Log", "Task", and "Resource Type".

The "Organizational Unit Properties" form contains the following fields and controls:

- Name:** A text input field with a "Remove attribute" link next to it.
- LDAP Name:** A text input field.
- Mandatory:** A checkbox.
- Allows multiple:** A checkbox.
- Maximum field length:** A text input field.
- Use only preset choices:** A checkbox.

At the bottom of the form, there are two buttons: "Update" and "Add another attribute".

FIGURE 8.36: COMPANY LOCATION

8.9.4 Work Log

The screenshot shows a web browser window with the URL `172.20.50.4:8080/custom_attributes/edit?type=WorkLog`. The page title is "Custom Attributes - jobsworth". The navigation bar includes "Overview", "Create", "Tasks", "Milestones", "Wiki", "Projects", and a search bar. The user is logged in as "admin / Default Company". A status bar at the top shows the time "09:09 15/01/2014" and a message "Latest new from the default company: This is very new [Hide]".

The main content area is titled "Work Log Properties". It contains the following fields and controls:

- Name:** A text input field with a "Remove attribute" link next to it.
- LDAP Name:** A text input field.
- Mandatory:** A checkbox.
- Allows multiple:** A checkbox.
- Maximum field length:** A text input field.
- Use only preset choices:** A checkbox.

At the bottom of the form, there are two buttons: "Update" and "Add another attribute".

The left sidebar contains a menu with the following items:

- ADMIN PANEL
 - General
 - Score Rules
 - Task Templates
 - Triggers
 - Services
 - News Items
 - Snippets
 - Orphaned Emails
- PROPERTIES
 - Person
 - Company
 - Company Location
 - Work Log**
 - Task
 - Resource Type

FIGURE 8.37: WORKLOG

8.9.5 Task Properties

File Edit View History Bookmarks Tools Help

jobsworth

172.20.50.4:8080/properties

ClockingIT

Overview Create Tasks Milestones Wiki Projects Search... admin / Default Company

[09:09 15/01/2014] Latest new from the default company: This is very new [Hide]

ADMIN PANEL

- General
- Score Rules
- Task Templates
- Triggers
- Services
- News Items
- Snippets
- Orphaned Emails

PROPERTIES

- Person
- Company
- Company Location
- Work Log
- Task
- Resource Type

Task Properties

New task property

Name	Sort tasks by this property by default	Color tasks by this property by default		
Type			Edit	Delete
Priority	Yes	Yes	Edit	Delete
Severity	Yes		Edit	Delete

FIGURE 8.38: TASK PROPERTIES

8.9.6 Resource Type

The screenshot shows a web browser window with the URL `172.20.50.4:8080/resource_types`. The application is titled "ClockingIT" and has a navigation bar with links: Overview, Create, Tasks, Milestones, Wiki, Projects, and a search bar. The user is logged in as "admin / Default Company". A notification bar at the top states: "[09:09 15/01/2014] Latest new from the default company: This is very new [Hide]".

On the left is an "ADMIN PANEL" with two sections:

- ADMIN PANEL**
 - General
 - Score Rules
 - Task Templates
 - Triggers
 - Services
 - News Items
 - Snippets
 - Orphaned Emails
- PROPERTIES**
 - Person
 - Company
 - Company Location
 - Work Log
 - Task
 - Resource Type**

The main content area is titled "Resource Types" and includes a "New resource type" button. It contains a table with the following data:

Name	Attributes		
room	0	Edit	Delete

FIGURE 8.39: RESOURCE TYPE

File Edit View History Bookmarks Tools Help

jobsworth

172.20.50.4:8080/resource_types/new

ClockingIT

Overview Create Tasks Milestones Wiki Projects Search... admin / Default Company

[09:09 15/01/2014] Latest new from the default company: This is very new [Hide]

ADMIN PANEL

- General
- Score Rules
- Task Templates
- Triggers
- Services
- News items
- Snippets
- Orphaned Emails

PROPERTIES

- Person
- Company
- Company Location
- Work Log
- Task
- Resource Type

Create Resource Type

Name

Attributes

Name	<input type="text"/>	Remove attribute
Mandatory	<input type="checkbox"/>	
This attribute is a password	<input type="checkbox"/>	
Allows Multiple	<input type="checkbox"/>	
Validation Regex	<input type="text"/>	
Default field length	<input type="text"/>	

FIGURE 8.40: CREATE RESOURCE TYPE

9 Widgets

10 Workflow