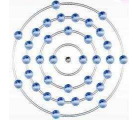


# *Br* *mine*

vers 1.5

User Manual



# Why *Bromine*?

*Bromine* is an instrument to gather and process test results from testing tools such as Selenium TestRunner and the like.

Get a joint overview of the test results gathered from the tests that has run.

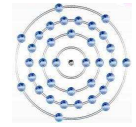
The results are quickly and easily compared or analysed closer through a well-arranged interface.

# How *Bromine*?

This manual goes through in detail who to use Bromine and how to utilize it effectively.

Summary of the procedure:

After the log in procedure, how to initiate testing is shown and next where to find the results. Last an examination of the administration module for editing, adding and deleting users, projects and tests.



# Home page

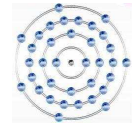
Picture 1: Home page

The first thing to do to begin using *Bromine* is to log in. For that a *Username* and a *Password* is needed. Included, when getting the program, is the username *Selftester* and password *1234*. This user is an administrator who after log in can add one or more new users with Username and Password by choice.

## Log in

Other than the 2 cells for entering Username and Password, on the home page there is also a dropdown menu Language, for you to choose whether the language after log in is to be Danish or English.

Picture 2: Choose Language



Click Log in after typing Username and Password (using upper case or lower case letters makes no difference in the Username or in the Password). It is not necessary to consider the language to log in. Danish is the default language.

## After log in

This is what *Bromine* looks like after log in:



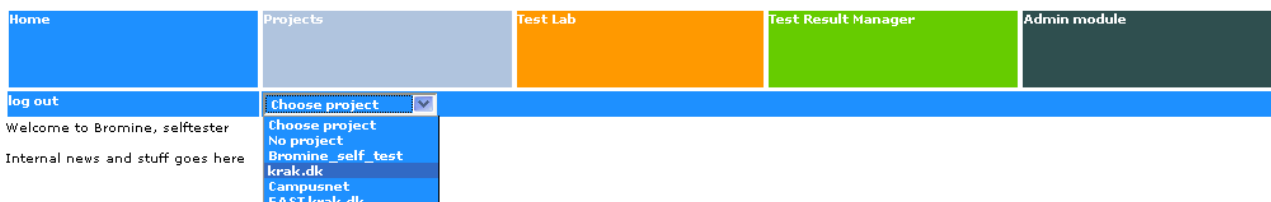
**Picture 3: After log in**

There are 5 tabs:

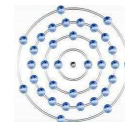
- Home: Click here to return to Home.
- Project: See which projects have been added and who has access.
- Test Lap: Run core tests and node tests, and edit tests.
- Test Result Manager: See the test results.
- Admin Module: Edit users, core sites, nodes and more.

It is always possible to log out. The user is automatically logged out after 30 minutes of inactivity which means that when clicking anything after the 30 minutes, the home page appears again. Log in again to continue working.

The dropdown menu “Project” is always available, and here you can choose which project to access.



**Picture 4: Choose project**



# Projects

|          |                  |          |                     |              |
|----------|------------------|----------|---------------------|--------------|
| Home     | Projects         | Test Lab | Test Result Manager | Admin module |
| log out  | Choose project ▼ |          |                     |              |
| Projects | Human resources  |          |                     |              |

Picture 5: Projects

## Projects

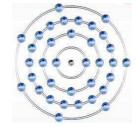
Click on "Projects" in "Projects" to see which projects are available, and this is also the place to add new projects at the bottom of the page.

|          |                  |          |                     |              |
|----------|------------------|----------|---------------------|--------------|
| Home     | Projects         | Test Lab | Test Result Manager | Admin module |
| log out  | Choose project ▼ |          |                     |              |
| Projects | Human resources  |          |                     |              |

| Name              | Description   | Delete |
|-------------------|---|--------|
| Bromine_self_test | The test of the bromine system  |        |
| krak.dk           | Søgeside med kort osv.  |        |
| Campusnet         | DTU's interne hjemmeside med adgang til kurser, karakterer, samt brugergrupper og fildelings-system |        |
| FAST krak.dk      | Opdatering af fast miljø  |        |
| Netscaler         | Opdatering af netscaler software  |        |

|                      |                      |
|----------------------|----------------------|
| Add project          |                      |
| Name                 | Description          |
| <input type="text"/> | <input type="text"/> |

Picture 6: Edit projects



## Human resources

See who has access to the different projects but first choose a project (see picture 4)

|                                       |                 |                   |                     |              |
|---------------------------------------|-----------------|-------------------|---------------------|--------------|
| Home                                  | Projects        | Test Lab          | Test Result Manager | Admin module |
| log out                               | krak.dk         |                   |                     |              |
| Projects                              | Human resources |                   |                     |              |
| <b>Access</b>                         | <b>Username</b> | <b>Name</b>       | <b>Usertype</b>     |              |
| <input checked="" type="checkbox"/>   | pvk             | Visti Kløft       | admin               |              |
| <input checked="" type="checkbox"/>   | jpp             |                   | admin               |              |
| <input checked="" type="checkbox"/>   | selftester      |                   | admin               |              |
| <input checked="" type="checkbox"/>   | louise          | Louise Hasselby   | admin               |              |
| <input checked="" type="checkbox"/>   | cno             | Christian Nørlyng | admin               |              |
| <input type="checkbox"/>              | Sofia           | Sofia Arvidsson   | admin               |              |
| <input checked="" type="checkbox"/>   | rbp             | Rasmus Palm       | admin               |              |
| <input checked="" type="checkbox"/>   | flw             | Flemming Wulf     | manager             |              |
| <input checked="" type="checkbox"/>   | tester          |                   | tester              |              |
| <input checked="" type="checkbox"/>   | csc             | Claus Schou       | tester              |              |
| <input checked="" type="checkbox"/>   | supertester     |                   | supertester         |              |
| <input checked="" type="checkbox"/>   | guest           | guest guest       | guest               |              |
| <input checked="" type="checkbox"/>   | campusdrift     |                   | drift               |              |
| <input type="button" value="Submit"/> |                 |                   |                     |              |

Picture 7: Human resources

# Test Lab

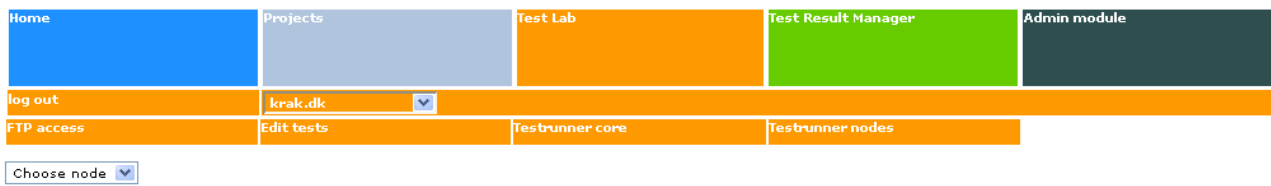
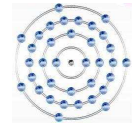
Test Lap introduces 4 choices: FTP access, edit tests, Testrunner core and Testrunner node.

|            |            |                 |                     |              |
|------------|------------|-----------------|---------------------|--------------|
| Home       | Projects   | Test Lab        | Test Result Manager | Admin module |
| log out    | krak.dk    |                 |                     |              |
| FTP access | Edit tests | Testrunner core | Testrunner nodes    |              |

Picture 8: Test lap

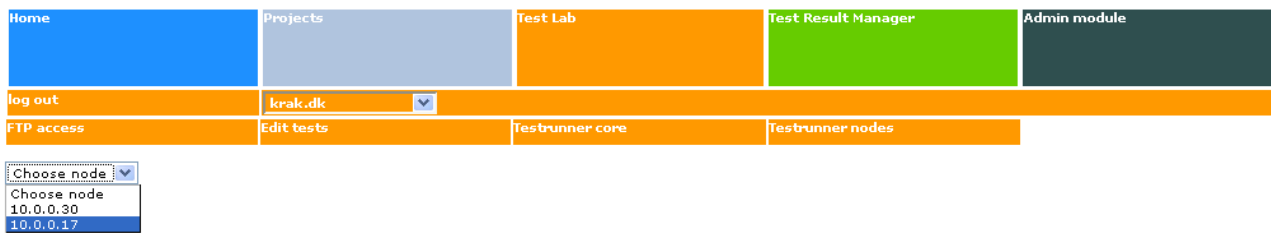
## FTP access

See, edit and add tests to nodes. A node is an internal server, where as a core is an external server.



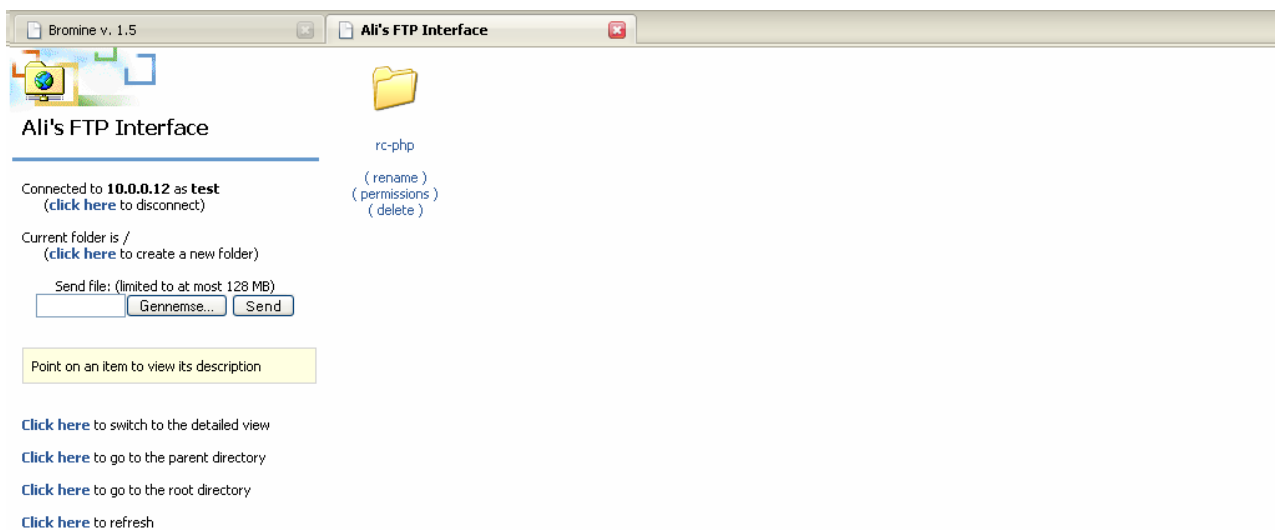
**Picture 9: FTP access**

Which node to access, is chosen in the dropdown menu.



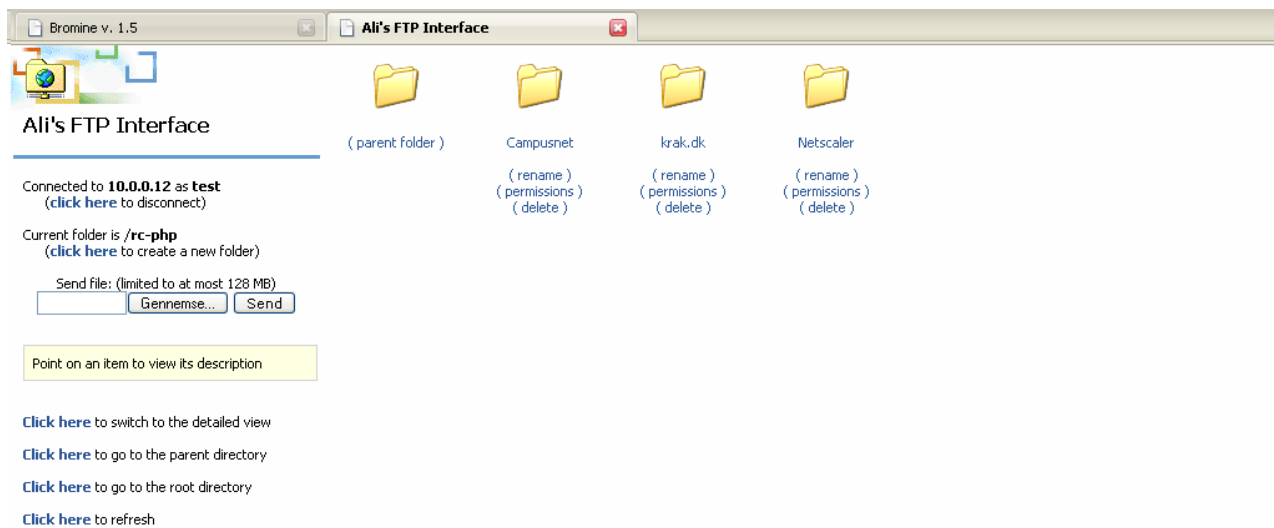
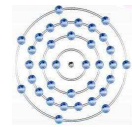
**Picture 10: Choose node**

After choosing a node, Ali's FTP Interface opens in a new window.



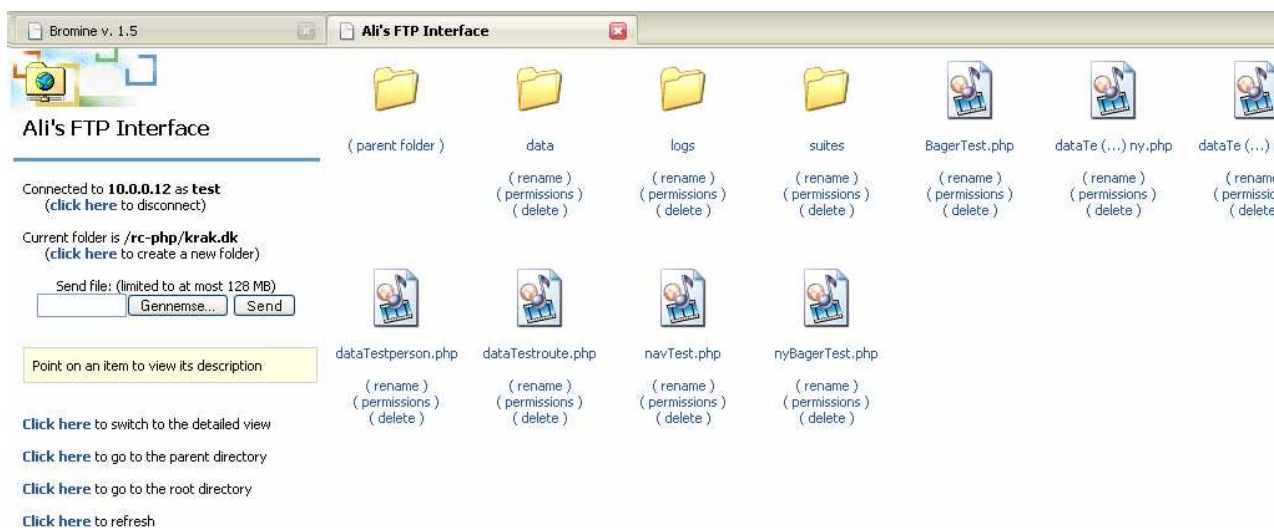
**Picture 11: Ali's FTP Interface**

This is a remote access to the internal servers. Under each folder and file there are links to rename, change permissions and delete the folder or file.



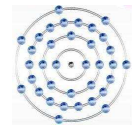
Picture 12: rc-php

Here there is access to different environments such as krak.dk.

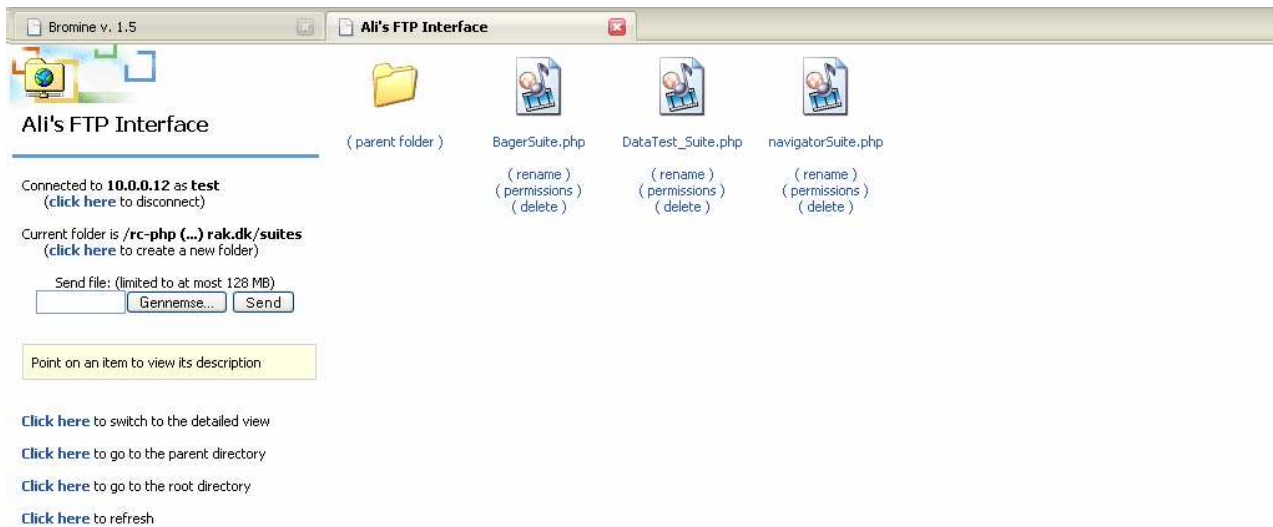


Picture 13: krak.dk



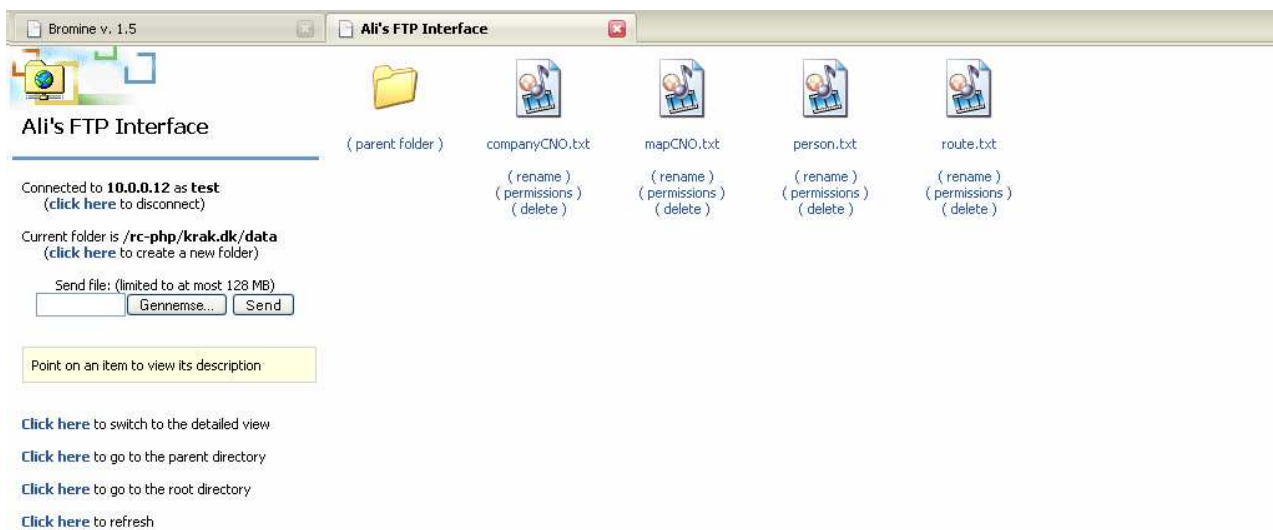


Here are different tests and in the "Suites" folder, there is suites.

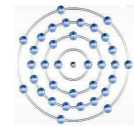


Picture 14: Suites

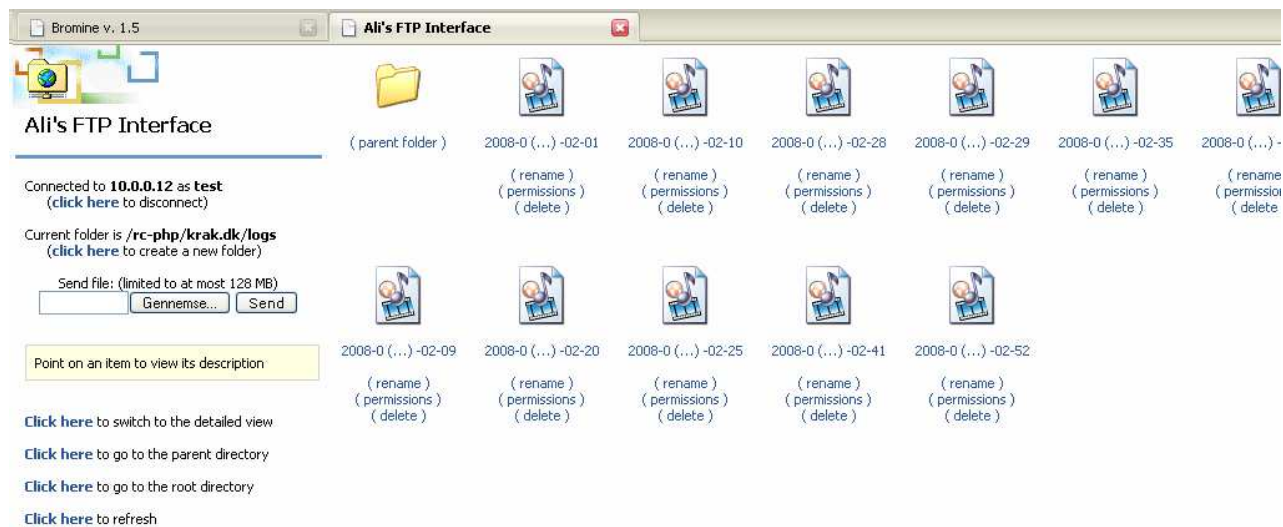
Under Data there is data.



Picture 15: Data



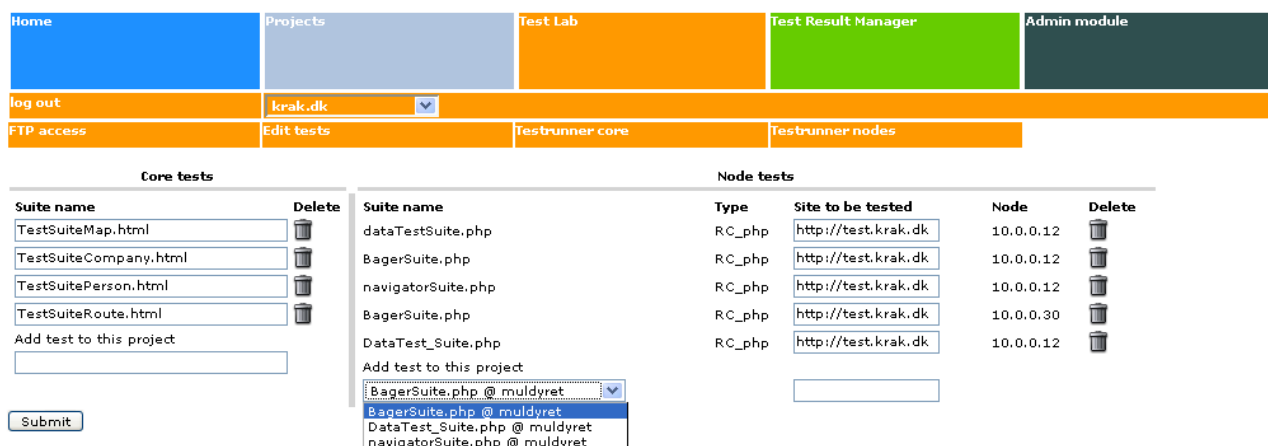
The last folder is Logs



Picture 16: Logs

## Edit tests

Here core tests and node tests are added

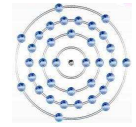


Picture 17: Edit tests

You can only add a core suite, if you know that the suite exist core server. To add a node suite, the suite must exist on the node and then choose it from the dropdown menu. The suite is added by clicking Submit.

## Testrunner core

To run a core test, first choose which environment to test.



|             |                     |                 |                     |              |
|-------------|---------------------|-----------------|---------------------|--------------|
| Home        | Projects            | Test Lab        | Test Result Manager | Admin module |
| log out     | krak.dk             |                 |                     |              |
| FTP access  | Edit tests          | Testrunner core | Testrunner nodes    |              |
| Environment | Choose environment  |                 |                     |              |
| Suite name  | http://krak.dk      |                 |                     |              |
| Interval    | http://test.krak.dk |                 |                     |              |

**Picture 18: Choose environment**

Then choose a suite.

|             |                |                 |                     |              |
|-------------|----------------|-----------------|---------------------|--------------|
| Home        | Projects       | Test Lab        | Test Result Manager | Admin module |
| log out     | krak.dk        |                 |                     |              |
| FTP access  | Edit tests     | Testrunner core | Testrunner nodes    |              |
| Environment | http://krak.dk |                 |                     |              |
| Suite name  | Choose test    |                 |                     |              |
| Interval    | Choose test    |                 |                     |              |

- TestSuiteMap.html
- TestSuiteCompany.html
- TestSuitePerson.html
- TestSuiteRoute.html

**Picture 19: Choose suite**

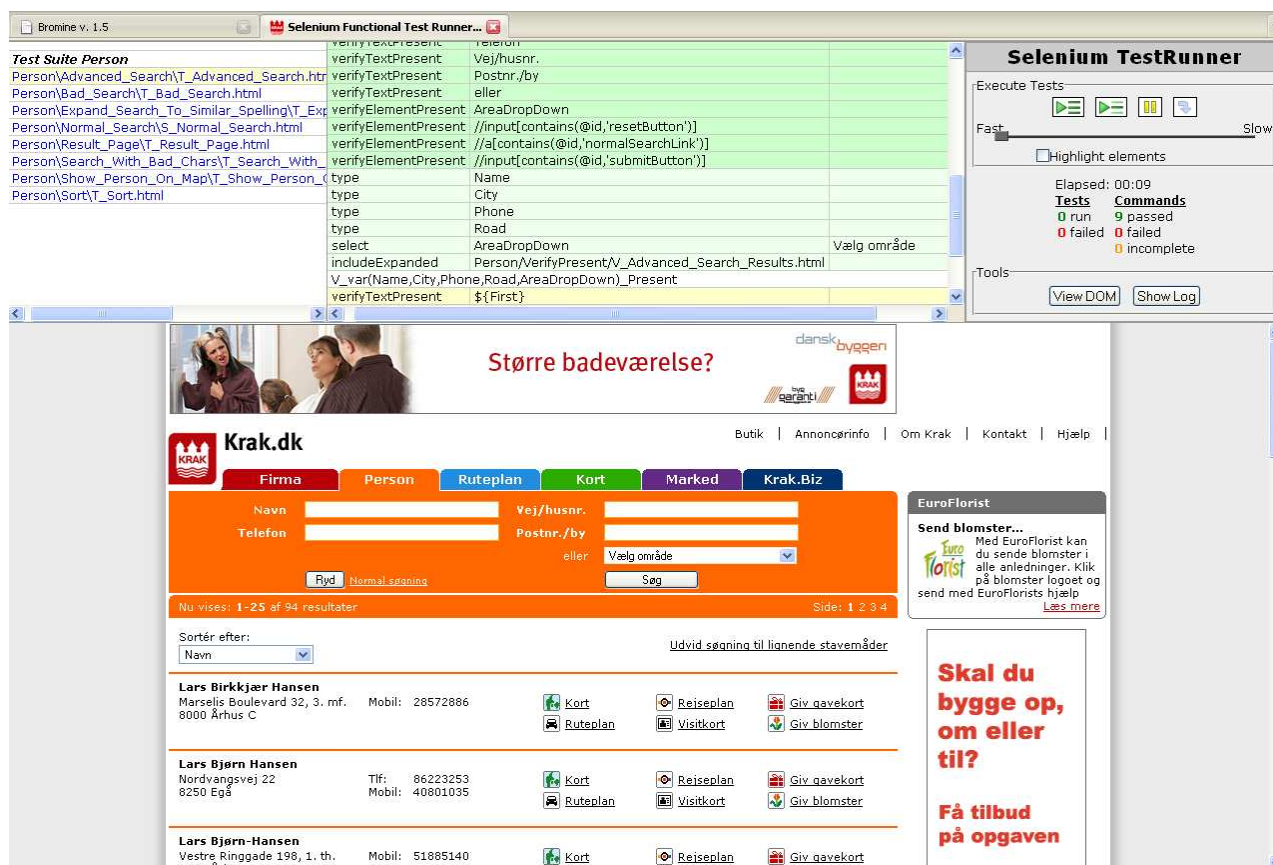
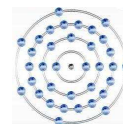
Finally choose the interval, which defines to time that passes between each command is executed. If you don't need to see the commands being executed, set the interval to 0 seconds, but to slow the test down to see the commands, choose a different interval.

|             |                      |                 |                     |              |
|-------------|----------------------|-----------------|---------------------|--------------|
| Home        | Projects             | Test Lab        | Test Result Manager | Admin module |
| log out     | krak.dk              |                 |                     |              |
| FTP access  | Edit tests           | Testrunner core | Testrunner nodes    |              |
| Environment | http://krak.dk       |                 |                     |              |
| Suite name  | TestSuitePerson.html |                 |                     |              |
| Interval    | 0 ms                 |                 |                     |              |
| Run test    | Generate dir         |                 |                     |              |

- 500 ms
- 1000 ms
- 1500 ms
- 2000 ms
- 2500 ms
- 3000 ms
- 3500 ms
- 4000 ms
- 4500 ms
- 5000 ms

**Picture 20: Choose interval**

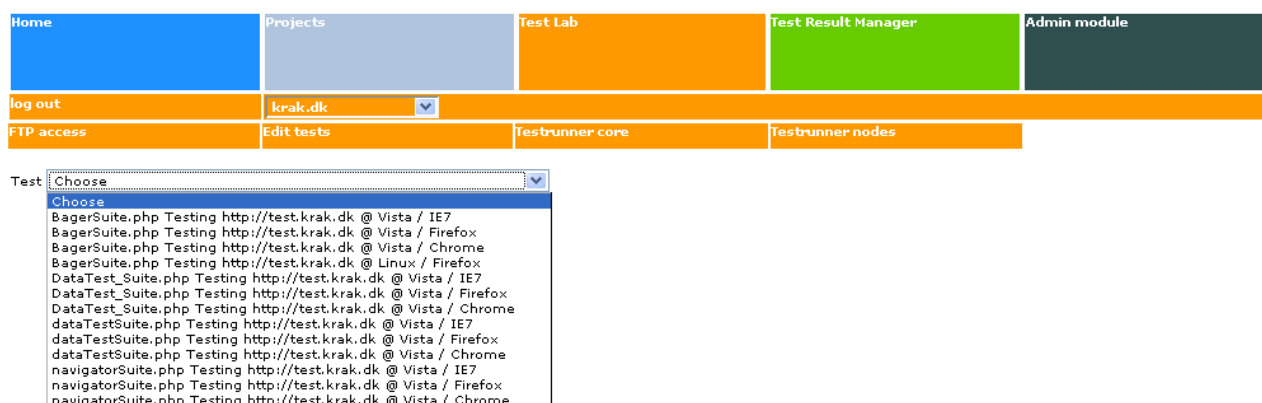
Then click Run test, and the test runs in Selenium Testrunner in a new window.



Picture 21: Selenium Testrunner

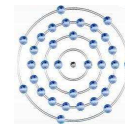
## Testrunner node

To run at node test, choose a test in the dropdown menu.



Picture 22: Testrunner node

Then choose datafile, if askede.



Home Projects Test Lab Test Result Manager Admin module

log out krak.dk

FTP access Edit tests Testrunner core Testrunner nodes

Test DataTest\_Suite.php Testing http://test.krak.dk @ Vista / Firefox

Choose datafile Choose

- companyCNO.txt
- mapCNO.txt
- mapCNOshort.txt
- person.txt
- route.txt
- routeFailed.txt

Picture 23: Choose data file

When test and data file is chosen, run the test, that opens in a new window. The test only runs if the node is turned on.

Home Projects Test Lab Test Result Manager Admin module

log out krak.dk

FTP access Edit tests Testrunner core Testrunner nodes

Test DataTest\_Suite.php Testing http://test.krak.dk @ Vista / Firefox

Choose datafile person.txt

Run test

[Generate direct link to this test](#)

Picture 24: Run node test

# Test Result Manager

See all the test results in Test result manager.

Home

Projects

Test Lab

Test Result Manager

Admin module

log out

krak.dk

Suite name: All

Environment: All

Platform: All

Browser: All

From: yyyy-mm-dd

To: yyyy-mm-dd

Show

Reset

Project: krak.dk

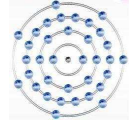
| Diff | Date                                | Suite name       | Environment            | Sel. ver. | Sel. rev. | Browser  | Platform | Test suc. | Test fail. | Pass man. | Cmd. suc. | Cmd. failed | Cmd. not done | T graph | Cmd. graph |
|------|-------------------------------------|------------------|------------------------|-----------|-----------|----------|----------|-----------|------------|-----------|-----------|-------------|---------------|---------|------------|
|      | <a href="#">2008-02-06 18:38:32</a> | BagerSuite       | http://www.krak.dk RC  |           |           | *firefox | Vista    | 1         | 1          | 0         | 2         | 2           | 0             |         |            |
|      | <a href="#">2008-02-06 18:36:10</a> | BagerSuite       | http://www.krak.dk RC  |           |           | *firefox | xp       | 1         | 1          | 0         | 2         | 2           | 0             |         |            |
|      | <a href="#">2008-02-06 17:39:59</a> | Data Test: route | http://test.krak.dk RC |           |           | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |
|      | <a href="#">2008-02-06 13:49:04</a> | Data Test: route | http://www.krak.dk RC  |           |           | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |
|      | <a href="#">2008-02-06 13:47:47</a> | Data Test: route | http://www.krak.dk RC  |           |           | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |
|      | <a href="#">2008-02-06 13:45:06</a> | Data Test: route | http://www.krak.dk RC  |           |           | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |
|      | <a href="#">2008-02-06 13:23:06</a> | Data Test: route | http://test.krak.dk RC |           |           | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |
|      | <a href="#">2008-02-06 13:20:43</a> | Data Test: route | http://test.krak.dk RC |           |           | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |
|      | <a href="#">2008-02-06 13:16:44</a> | Data Test: route | http://www.krak.dk RC  |           |           | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |
|      | <a href="#">2008-02-06 13:11:45</a> | Data Test: route | http://www.krak.dk RC  |           |           | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |
|      | <a href="#">2008-02-06 13:09:29</a> | Data Test: route | http://www.krak.dk RC  |           |           | *firefox | Vista    | 2         | 1          | 0         | 2         | 1           | 0             |         |            |
|      | <a href="#">2008-02-06 13:07:49</a> | Data Test: route | http://www.krak.dk RC  |           |           | *firefox | Vista    | 2         | 1          | 0         | 2         | 1           | 0             |         |            |
|      | <a href="#">2008-02-06 13:05:00</a> | Data Test: route | http://www.krak.dk RC  |           |           | *firefox | Vista    | 2         | 1          | 0         | 2         | 1           | 0             |         |            |
|      | <a href="#">2008-02-06 13:04:45</a> | Data Test: route | http://krak.dk RC      |           |           | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |
|      | <a href="#">2008-02-06 12:57:22</a> | Data Test: route | http://www.krak.dk RC  |           |           | *firefox | Vista    | 2         | 1          | 0         | 2         | 1           | 0             |         |            |

Previous 15

Difference

Next 15

Picture 25: Test result manager



Each test is identified by

- Date and time
- Test suite name
- Environment
- Selenium Version
- Selenium revision
- Browser (e.g. Firefox, Internet Explorer)
- Platform (e.g. Windows)

Secondly, the results show number of:

- Tests succeeded
- Test failed
- Failed tests passed manually
- Commands succeeded
- Commands failed
- Commands not done

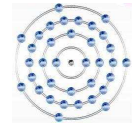
Last are to graphs:

- The success of the Test (green for succeeded and red for failed)
- The success of the commands (green for succeeded, red for failed and yellow for not done)

The list of test results can be sorted by clicking on a headline of a column (e.g. T succeeded, or Browser). As a default they are sorted by date/time.

In the dropdown menus above, choose which results to see. Choose one or more of these criteria:

- Suite name



Home

Projects

Test Lab

Test Result Manager

Admin module

log out

krak.dk

Suite name: All

Environment: All

Platform: All

Browser: All

From: yyyy-mm-dd

To: yyyy-mm-dd

Show

Reset

Project: krak

test suite map  
test suite company  
test suite person  
BagerSuite  
Navigator Test  
Data Test: person  
Data Test: route  
Data Test: map  
test suite route

| Diff | Date | name                | Environment       | Sel. ver.           | Sel. rev.           | Browser  | Platform | Test suc. | Test fail. | Pass man. | Cmd. suc. | Cmd. failed | Cmd. not done | T graph | Cmd. graph |  |
|------|------|---------------------|-------------------|---------------------|---------------------|----------|----------|-----------|------------|-----------|-----------|-------------|---------------|---------|------------|--|
|      |      | 2008-02-06 13:47:47 | Navigator Test    | uite                | http://www.krak.dk  | RC       | *firefox | Vista     | 1          | 1         | 0         | 2           | 2             | 0       |            |  |
|      |      | 2008-02-06 13:47:47 | Data Test: person | uite                | http://www.krak.dk  | RC       | *firefox | xp        | 1          | 1         | 0         | 2           | 2             | 0       |            |  |
|      |      | 2008-02-06 13:47:47 | Data Test: route  | ast: route          | http://test.krak.dk | RC       | *firefox | Vista     | 0          | 3         | 0         | 0           | 3             | 0       |            |  |
|      |      | 2008-02-06 13:49:04 | Data Test: route  | http://www.krak.dk  | RC                  | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |  |
|      |      | 2008-02-06 13:47:47 | Data Test: route  | http://www.krak.dk  | RC                  | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |  |
|      |      | 2008-02-06 13:45:06 | Data Test: route  | http://www.krak.dk  | RC                  | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |  |
|      |      | 2008-02-06 13:23:06 | Data Test: route  | http://test.krak.dk | RC                  | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |  |
|      |      | 2008-02-06 13:20:43 | Data Test: route  | http://test.krak.dk | RC                  | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |  |
|      |      | 2008-02-06 13:16:44 | Data Test: route  | http://www.krak.dk  | RC                  | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |  |
|      |      | 2008-02-06 13:11:45 | Data Test: route  | http://www.krak.dk  | RC                  | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |  |
|      |      | 2008-02-06 13:09:29 | Data Test: route  | http://www.krak.dk  | RC                  | *firefox | Vista    | 2         | 1          | 0         | 2         | 1           | 0             |         |            |  |
|      |      | 2008-02-06 13:07:49 | Data Test: route  | http://www.krak.dk  | RC                  | *firefox | Vista    | 2         | 1          | 0         | 2         | 1           | 0             |         |            |  |
|      |      | 2008-02-06 13:05:00 | Data Test: route  | http://www.krak.dk  | RC                  | *firefox | Vista    | 2         | 1          | 0         | 2         | 1           | 0             |         |            |  |
|      |      | 2008-02-06 13:04:45 | Data Test: route  | http://krak.dk      | RC                  | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |  |
|      |      | 2008-02-06 12:57:22 | Data Test: route  | http://www.krak.dk  | RC                  | *firefox | Vista    | 2         | 1          | 0         | 2         | 1           | 0             |         |            |  |

Previous 15

Difference

Next 15

Picture 26: suite name

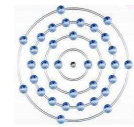
- Environment

|   |                                     |                  |                     |              |          |          |           |            |           |           |             |               |         |            |
|---|-------------------------------------|------------------|---------------------|--------------|----------|----------|-----------|------------|-----------|-----------|-------------|---------------|---------|------------|
| Home  | Projects                            | Test Lab         | Test Result Manager | Admin module |          |          |           |            |           |           |             |               |         |            |
| log out   |                                     |                  |                     |              |          |          |           |            |           |           |             |               |         |            |
| krak.dk   |                                     |                  |                     |              |          |          |           |            |           |           |             |               |         |            |
| Suite name: BagerSuite Environment: All Platform: All Browser: All From: yyyy-mm-dd To: yyyy-mm-dd Show Reset |                                     |                  |                     |              |          |          |           |            |           |           |             |               |         |            |
| Project: krak.dk  |                                     |                  |                     |              |          |          |           |            |           |           |             |               |         |            |
| Diff  | Date                                | Suite name       | Env                 | rev.         | Browser  | Platform | Test suc. | Test fail. | Pass man. | Cmd. suc. | Cmd. failed | Cmd. not done | T graph | Cmd. graph |
|   | <a href="#">2008-02-06 18:38:32</a> | BagerSuite       | http://www.krak.dk  | RC           | *firefox | Vista    | 1         | 1          | 0         | 2         | 2           | 0             |         |            |
|   | <a href="#">2008-02-06 18:36:10</a> | BagerSuite       | http://qa.krak.dk   | RC           | *firefox | xp       | 1         | 1          | 0         | 2         | 2           | 0             |         |            |
|   | <a href="#">2008-02-06 17:39:59</a> | Data Test: route | http://test.krak.dk | RC           | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |
|   | <a href="#">2008-02-06 13:49:04</a> | Data Test: route | http://www.krak.dk  | RC           | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |
|   | <a href="#">2008-02-06 13:47:47</a> | Data Test: route | http://www.krak.dk  | RC           | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |
|   | <a href="#">2008-02-06 13:45:06</a> | Data Test: route | http://www.krak.dk  | RC           | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |
|   | <a href="#">2008-02-06 13:23:06</a> | Data Test: route | http://test.krak.dk | RC           | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |
|   | <a href="#">2008-02-06 13:20:43</a> | Data Test: route | http://test.krak.dk | RC           | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |
|   | <a href="#">2008-02-06 13:16:44</a> | Data Test: route | http://www.krak.dk  | RC           | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |
|   | <a href="#">2008-02-06 13:11:45</a> | Data Test: route | http://www.krak.dk  | RC           | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |
|   | <a href="#">2008-02-06 13:09:29</a> | Data Test: route | http://www.krak.dk  | RC           | *firefox | Vista    | 2         | 1          | 0         | 2         | 1           | 0             |         |            |
|   | <a href="#">2008-02-06 13:07:49</a> | Data Test: route | http://www.krak.dk  | RC           | *firefox | Vista    | 2         | 1          | 0         | 2         | 1           | 0             |         |            |
|   | <a href="#">2008-02-06 13:05:00</a> | Data Test: route | http://www.krak.dk  | RC           | *firefox | Vista    | 2         | 1          | 0         | 2         | 1           | 0             |         |            |
|   | <a href="#">2008-02-06 13:04:45</a> | Data Test: route | http://krak.dk      | RC           | *firefox | Vista    | 0         | 3          | 0         | 0         | 3           | 0             |         |            |
|   | <a href="#">2008-02-06 12:57:22</a> | Data Test: route | http://www.krak.dk  | RC           | *firefox | Vista    | 2         | 1          | 0         | 2         | 1           | 0             |         |            |
| Previous 15   |                                     |                  |                     |              | Next 15  |          |           |            |           |           |             |               |         |            |
| Difference  |                                     |                  |                     |              |          |          |           |            |           |           |             |               |         |            |

Figur 27: Environment

- Platform
- Browser
- From (date)
- To (date)

E.g. choose to see only the results from tests the Bagersuite on test.krak.dk. Click Show to the right, or Reset to see all the results again.



Home Projects **Test Lab** Test Result Manager Admin module

log out **krak.dk**

Suite name: BagerSuite Environment: http://test.krak.dk Platform: All Browser: All From: yyyy-mm-dd To: yyyy-mm-dd Show Reset

Project: **krak.dk**

| Diff | Date                | Suite name | Environment         | Sel. ver. | Sel. rev. | Browser  | Platform | Test suc. | Test fail. | Pass man. | Cmd. suc. | Cmd. failed | Cmd. not done | T graph | Cmd. graph |
|------|---------------------|------------|---------------------|-----------|-----------|----------|----------|-----------|------------|-----------|-----------|-------------|---------------|---------|------------|
|      | 2008-02-06 11:25:05 | BagerSuite | http://test.krak.dk | RC        |           | *iehta   | Vista    | 0         | 2          | 0         | 1         | 3           | 0             |         |            |
|      | 2008-02-05 10:33:59 | BagerSuite | http://test.krak.dk | RC        |           | *firefox | Vista    | 1         | 1          | 0         | 2         | 2           | 0             |         |            |
|      | 2008-02-04 13:59:54 | BagerSuite | http://test.krak.dk | RC        |           | *firefox | Vista    | 1         | 1          | 0         | 2         | 2           | 0             |         |            |
|      | 2008-02-02 21:15:42 | BagerSuite | http://test.krak.dk | RC        |           | *chrome  | Vista    | 1         | 1          | 0         | 2         | 2           | 0             |         |            |
|      | 2008-02-02 15:08:33 | BagerSuite | http://test.krak.dk | RC        |           | *firefox | Vista    | 1         | 1          | 0         | 2         | 2           | 0             |         |            |
|      | 2008-02-01 14:18:55 | BagerSuite | http://test.krak.dk | RC        |           | *firefox | Vista    | 1         | 1          | 0         | 2         | 2           | 0             |         |            |
|      | 2008-02-01 14:14:06 | BagerSuite | http://test.krak.dk | RC        |           | *firefox | Vista    | 1         | 1          | 0         | 2         | 2           | 0             |         |            |
|      | 2008-02-01 14:11:49 | BagerSuite | http://test.krak.dk | RC        |           | *firefox | Vista    | 1         | 1          | 0         | 2         | 2           | 0             |         |            |
|      | 2008-02-01 13:58:21 | BagerSuite | http://test.krak.dk | RC        |           | *firefox | Vista    | 1         | 1          | 0         | 2         | 2           | 0             |         |            |
|      | 2008-02-01 13:46:23 | BagerSuite | http://test.krak.dk | RC        |           | *firefox | Vista    | 1         | 1          | 1         | 2         | 2           | 0             |         |            |
|      | 2008-02-01 13:26:31 | BagerSuite | http://test.krak.dk | RC        |           | *firefox | Vista    | 1         | 1          | 0         | 2         | 2           | 0             |         |            |
|      | 2008-02-01 12:58:09 | BagerSuite | http://test.krak.dk | RC        |           | *iehta   | Vista    | 1         | 1          | 0         | 2         | 2           | 0             |         |            |
|      | 2008-02-01 12:46:47 | BagerSuite | http://test.krak.dk | RC        |           | *firefox | Vista    | 1         | 1          | 0         | 2         | 2           | 0             |         |            |
|      | 2008-02-01 12:41:37 | BagerSuite | http://test.krak.dk | RC        |           | *firefox | Vista    | 1         | 1          | 0         | 2         | 2           | 0             |         |            |
|      | 2008-02-01 12:39:42 | BagerSuite | http://test.krak.dk | RC        |           | *firefox | Vista    | 1         | 1          | 0         | 2         | 2           | 0             |         |            |

Previous 15 Difference Next 15

Picture 28: Show suite and environment

Delete a test by clicking on the Trashcan icon left of the date/time.

See the actual result of a test by clicking on the date/time of the test in question:

Home Projects **Test Lab** Test Result Manager Admin module

log out **krak.dk**

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Client: Vista / \*firefox ☒ Test succeeded  
Total time: 0 min. 27 sec. ☒ Test failed  
Suite name: BagerSuite ☐ Help text  
Selenium version: RC ☐ Commands succeeded  
Environment: http://www.krak.dk ☒ Commands failed  
Selenium version: ☐ Commands done  
Time/Date: 2008-02-06 18:38:32 ☐ Commands not done  
Test succeeded: 1 ☐ Show  
Test failed: 1  
Commands succeeded: 2  
Commands failed: 2  
Commands not done: 0  
Command Failures %: 0%

Pass

**bagertest**  
Pass: ☐

|                 |                   |                                  |
|-----------------|-------------------|----------------------------------|
| --isTextPresent | Bageren I Pandrup |                                  |
| --click         | link=30           | ERROR: Element link=30 not found |

**nybagertest**  
Pass: ☐

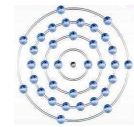
[Back to suite overview](#)

Picture 29: See result

The number of Tests/commands succeeded/failed/not done is marked with green/red/yellow. Return to the suite overview by clicking at the bottom to the left.

To see the specific details of the results, mark the criterion on the right and click Show. The details appear in a table below. As a default, tests succeeded, test failed and commands failed are shown.





By activating help text, se an explanation of the functions of the commands.

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Client: Vista / \*firefox

Total time: 0 min. 27 sec.

Suite name: BagerSuite

Selenium version: RC

Environment: http://www.krak.dk

Selenium version: 2008-02-06 18:38:32

Test succeeded: 1

Test failed: 1

Commands succeeded: 2

Commands failed: 2

Commands not done: 0

Command Failures %: 0%

☒ Test succeeded

☒ Test failed

☒ Help text

☐ Commands succeeded

☒ Commands failed

☐ Commands done

☐ Commands not done

Show

Pass

**bagertest**

Pass: ☐

Verification method: *verifyLastCommandTrue*

--isTextPresent Bageren I Pandrup

--click link=30

ERROR: Element link=30 not found

**nybagertest**

Pass: ☐

Verification method: *verifyLastCommandTrue*

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Picture 30: Show help text

Mark the other boxes to see all the details.

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Client: Vista / \*firefox

Total time: 0 min. 27 sec.

Suite name: BagerSuite

Selenium version: RC

Environment: http://www.krak.dk

Selenium version: 2008-02-06 18:38:32

Test succeeded: 1

Test failed: 1

Commands succeeded: 2

Commands failed: 2

Commands not done: 0

Command Failures %: 0%

☒ Test succeeded

☒ Test failed

☒ Help text

☒ Commands succeeded

☒ Commands failed

☒ Commands done

☒ Commands not done

Show

Pass

**bagertest**

Pass: ☐

Verification method: *verifyLastCommandTrue*

--open /

--type Query

--click //input[contains(@id,'submit')]

--waitForPageToLoad 60000

--isTextPresent Bageren I Pandrup

--click link=30

--testComplete

bager

ERROR: Element link=30 not found

**nybagertest**

Pass: ☐

Verification method: *verifyLastCommandTrue*

--open /

--type Query

--click ctrl10\_submitButton

--waitForPageToLoad 30000

--isElementPresent Query

--isTextPresent BÅ|chs Conditori A/S

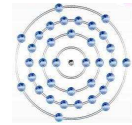
--testComplete

bager

Pass

[Back to suite overview](#)

Picture 31: All details



The light green colour tells if the test/command succeeded. The green colour tells if the test/command succeeded without failing. The red colour tells of the test/command is failed.

Manually pass a failed test by marking Pass click Pass (at the top or the bottom of the table).

Compare the results of 2 tests in the same suite but with e.g. different browsers by marking the square next to the date/time of the tests and click Difference.

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Show:

☐ Help text

Client: win xp / msie 7.0

Total time: 3 min. 36 sec.

Suite name: test suite company

Selenium version: 0.8.2

Environment: http://www.krak.dk

Selenium version: 1727

Time/Date: 2008-02-06 02:15:38

Test succeeded: 5

Test failed: 7

Commands succeeded: 157

Commands failed: 14

Commands not done: 21

Command Failures %: 10.94%

Client: win nt6.0 / firefox 2.0.0.11

Total time: 5 min. 37 sec.

Suite name: test suite company

Selenium version: 0.8.2

Environment: http://www.krak.dk

Selenium version: 1727

Time/Date: 2008-02-04 13:25:31

Test succeeded: 0

Test failed: 12

Commands succeeded: 20

Commands failed: 29

Commands not done: 55

Command Failures %: 52.88%

business\_organization

navigator

normal\_search

search\_with\_bad\_chars

show\_company\_on\_map

business\_organization

navigator

normal\_search

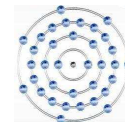
search\_with\_bad\_chars

show\_company\_on\_map

[Back to suite overview](#)

Picture 32: See differences

See the details by clicking to the left of the failed test in the green or red line at the bottom.



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Show:

Help text

Client:

win xp / msie 7.0

Total time:

3 min. 36 sec.

Suite name:

test suite company

Selenium version:

0.8.2

Environment:

http://www.krak.dk

Selenium version:

1727

Time/Date:

2008-02-06 02:15:38

Test succeeded:

5

Test failed:

7

Commands succeeded:

157

Commands failed:

14

Commands not done:

21

Command Failures %:

10.94%

Dt\_business\_organization

søger på vvs under firma. inkluderer en fil der tjekker brancheorganisationen efter søgning

Dt\_navigator

denne test verificer at de overordnede elemter er til stede i navigatoren

Os\_normal\_search

dette scenarie gennemfører en test af company normal search ved at søge på tømmer/esbjerg og include en stor bunke verifices

--open

/firma.aspx

--verifyelementpresent

//strong

--verifytextpresent

nu vises:

--verifytextpresent

resultater

--verifytextpresent

side:

--verifytextpresent

vis kun resultater med \${searchword} i firmanavn

--verifytext

//a[contains(@href, /firma/resultat.aspx?companyname=\${searchword2}&query=\${searchword2})] \${searchword} i firmanavn

--echo

\${searchword}

--echo

\${searchword2}

--includeexpanded

generic/verifypresent/v\_sort\_dropdown.html

--verifytextpresent

sortér efter:

--verifytext

sort

--includeexpanded

company/verifypresent/v\_business\_organization.html

--verifyelementpresent

businessorganization

--includeexpanded

company/verifypresent/v\_result\_page\_middle\_links.html

--verifytext

//a[contains(text(),'ruteplan')]

--verifytext

link=rejseplan

--verifytext

link=visitkort

--verifytext

//a[contains(text(),'kort')]

--includeexpanded

company/verifypresent/v\_navigator.html

vis kun resultater med \${searchword} i firmanavn

mest information navn vejnavn, husnr. postnr.

most information navn vejnavn, husnr. postnr.

Dt\_business\_organization

søger på vvs under firma. inkluderer en fil der tjekker brancheorganisati

Dt\_navigator

denne test verificer at de overordnede elemter er til stede i navigatoren

Os\_normal\_search

dette scenarie gennemfører en test af company normal search ved at søge på include en stor bunke verifices

--open

/firma.aspx

--verifyelementpresent

//strong

--verifytextpresent

nu vises:

--verifytextpresent

resultater

--verifytextpresent

side:

--verifytextpresent

vis kun resultater med \${searchword} i firmanavn

--verifytext

//a[contains(@href, /firma/resultat.aspx?companyname=\${searchword2}&query=\${searchword2})] \${searchword} i firmanavn

--echo

\${searchword}

--echo

\${searchword2}

--include

generic/verifypresent/v\_sort\_dropdown.html

--include

company/verifypresent/v\_business\_organization.html

--include

company/verifypresent/v\_result\_page\_middle\_links.html

--include

company/verifypresent/v\_navigator.html

--include

company/verifypresent/v\_show\_multiple\_company\_on\_map\_link.html

--include

generic/verifypresent/v\_eniro.html

Dt\_search\_with\_bad\_chars

skriver et forbudt tegn, søger på det, inkluderer en fil der tjekker result

Dt\_show\_company\_on\_map

søger på mcdonalds, klikker på det første firma se på kort, inkluderer fi

placeret der hvor den burde

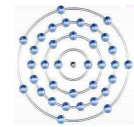
Picture 33: Differences in detail

## Admin Module

| Home       | Projects        | Test Lab   | Test Result Manager | Admin module         |
|------------|-----------------|------------|---------------------|----------------------|
| log out    | krak.dk         |            |                     |                      |
| Edit users | Edit core sites | Edit nodes | Edit misc           | Edit usertype access |

Picture 34: Admin module

Edit users, core sites, nodes and more by clicking the different headlines, but think before changing anything for there is NO going back!



## Edit users

Here is a list of all users and their password, including what type they are and hereby also which rights they have.

| Home        | Projects        | Test Lab   | Test Result Manager | Admin module         |                     |        |
|-------------|-----------------|------------|---------------------|----------------------|---------------------|--------|
| log out     |                 |            |                     |                      |                     |        |
| krak.dk     |                 |            |                     |                      |                     |        |
| Edit users  | Edit core sites | Edit nodes | Edit misc           | Edit usertype access |                     |        |
| Username    | First name      | Last name  | Password            | Usertype             | Email               | Delete |
| selftester  |                 |            |                     | admin                |                     |        |
| tester      |                 |            |                     | tester               |                     |        |
| cno         | Christian       | Nørlyng    |                     | admin                | cno@eniro.dk        |        |
| rbp         | Rasmus          | Palm       |                     | admin                |                     |        |
| flw         | Flemming        | Wulf       |                     | manager              |                     |        |
| campusdrift |                 |            |                     | drift                |                     |        |
| supertester |                 |            |                     | supertester          |                     |        |
| pvk         | Visti           | Kløft      |                     | admin                |                     |        |
| jpp         |                 |            |                     | admin                |                     |        |
| louise      | Louise          | Hasselby   |                     | admin                |                     |        |
| csc         | Claus           | Schou      |                     | tester               | csc@eniro.dk        |        |
| Sofia       | Sofia           | Arvidsson  |                     | admin                | Sofia.Arvidsson@eni |        |
| Add user    |                 |            |                     |                      |                     |        |
|             |                 |            |                     | inactive             |                     |        |
| Submit      |                 |            |                     |                      |                     |        |

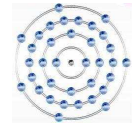
Picture 35: Edit user

A user is added by giving the user a name and a password at the bottom of the page. You can also add a first name, last name and e-mail address. Choose the user type in the dropdown menu.

| Home        | Projects        | Test Lab   | Test Result Manager | Admin module         |                     |        |
|-------------|-----------------|------------|---------------------|----------------------|---------------------|--------|
| log out     |                 |            |                     |                      |                     |        |
| krak.dk     |                 |            |                     |                      |                     |        |
| Edit users  | Edit core sites | Edit nodes | Edit misc           | Edit usertype access |                     |        |
| Username    | First name      | Last name  | Password            | Usertype             | Email               | Delete |
| selftester  |                 |            |                     | admin                |                     |        |
| tester      |                 |            |                     | tester               |                     |        |
| cno         | Christian       | Nørlyng    |                     | admin                | cno@eniro.dk        |        |
| rbp         | Rasmus          | Palm       |                     | admin                |                     |        |
| flw         | Flemming        | Wulf       |                     | manager              |                     |        |
| campusdrift |                 |            |                     | drift                |                     |        |
| supertester |                 |            |                     | supertester          |                     |        |
| pvk         | Visti           | Kløft      |                     | admin                |                     |        |
| jpp         |                 |            |                     | admin                |                     |        |
| louise      | Louise          | Hasselby   |                     | admin                |                     |        |
| csc         | Claus           | Schou      |                     | tester               | csc@eniro.dk        |        |
| Sofia       | Sofia           | Arvidsson  |                     | admin                | Sofia.Arvidsson@eni |        |
| Add user    |                 |            |                     |                      |                     |        |
|             |                 |            |                     | inactive             |                     |        |
| Submit      |                 |            |                     |                      |                     |        |

Picture 36: Add user

Choose between these user types:



- Inactive: cannot log in
- Robot: cannot log in
- Admin: has full access and is the only one who can see and enter the Admin Module
- Manager: can run tests and see the results but not the command success graph. Cannot pass failed tests or delete tests
- Tester: can run tests and see all the results. Can pass failed tests but cannot delete tests
- Supertester: Full access except the admin module
- Drift: Can run tests and see results but cannot change anything.
- Guest: can only see results.

Delete a user by clicking on the Trashcan.

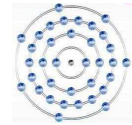
Return to the admin site by clicking at the bottom to the left.

## Edit core sites

Add a test to a core sites by typing the name, location and path of the test.

|  |   |   |  |                      |
|--|---|---|--|----------------------|
| Home   | Projects  | Test Lab  | Test Result Manager  | Admin module         |
| log out  | krak.dk   |   |  |                      |
| Edit users   | Edit core sites   | Edit nodes  | Edit misc  | Edit usertype access |
| <b>Environment</b><br><input type="text" value="http://krak.dk"/><br><input type="text" value="http://test.krak.dk"/><br>Add test to this project<br><input type="text"/><br><input type="button" value="Submit"/> | <b>TestRunner.html location</b><br><input type="text" value="testcenter/selenium/core/TestRunner.html"/><br><input type="text" value="testcenter/selenium/core/TestRunner.html"/><br><input type="text"/> | <b>Testsuite path</b><br><input data-cs="2" data-kind="parent" type="text" value="../tests/TestSuite/"/> <input data-kind="ghost" type="text"/> | <b>Delete</b><br><input type="button" value="Delete"/> <input type="button" value="Delete"/> |                      |

Picture 37: Edit core sites



## Edit Nodes

|                      |          |                 |                     |              |                                 |                               |                            |               |        |
|----------------------|----------|-----------------|---------------------|--------------|---------------------------------|-------------------------------|----------------------------|---------------|--------|
| Home                 | Projects | Test Lab        | Test Result Manager | Admin module |                                 |                               |                            |               |        |
| log out              |          |                 |                     |              |                                 |                               |                            |               |        |
| krak.dk              |          |                 |                     |              |                                 |                               |                            |               |        |
| Edit users           |          | Edit core sites | Edit nodes          | Edit misc    |                                 |                               |                            |               |        |
| Edit usertype access |          |                 |                     |              |                                 |                               |                            |               |        |
| Node                 | Username | Password        | OS                  | Description  | Browsers                        | Commands                      | Types                      | Type path     | Delete |
| 10.0.0.30            | www      | Not24Get        | Linux               | bo's server  | IE7<br>IE6<br>Firefox<br>Chrome | *custom /usr/bin/firefox      | RC_php<br>Watir<br>RC_ruby | dev/RC/rc-php |        |
| 10.0.0.12            | test     | Not24Get        | Vista               | muldyret     | IE7<br>IE6<br>Firefox<br>Chrome | *iehta<br>*firefox<br>*chrome | RC_php<br>Watir<br>RC_ruby | htdocs/rc-php |        |
| 10.0.0.17            | test     | Not24Get        | 2000                | Nye server   | IE7<br>IE6<br>Firefox<br>Chrome | *iehta<br>*firefox<br>*chrome | RC_php<br>Watir<br>RC_ruby | rc-php        |        |
| Add node             |          |                 |                     |              |                                 |                               |                            |               |        |
|                      |          |                 | Vista               |              | IE7<br>IE6<br>Firefox<br>Chrome |                               | RC_php<br>Watir<br>RC_ruby |               |        |
| Submit               |          |                 |                     |              |                                 |                               |                            |               |        |

Picture 38: Edit nodes

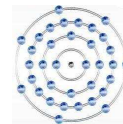
Add a node by typing the IP-address, and give it a username, password and a short description. Choose OS in the dropdown, and add browsers and types. Finally type the path.

|                      |          |                 |  |              |                                 |                               |                            |               |        |
|----------------------|----------|-----------------|--|--------------|---------------------------------|-------------------------------|----------------------------|---------------|--------|
| Home                 | Projects | Test Lab        | Test Result Manager                        | Admin module |                                 |                               |                            |               |        |
| log out              |          |                 |  |              |                                 |                               |                            |               |        |
| krak.dk              |          |                 |  |              |                                 |                               |                            |               |        |
| Edit users           |          | Edit core sites | Edit nodes                                 | Edit misc    |                                 |                               |                            |               |        |
| Edit usertype access |          |                 |  |              |                                 |                               |                            |               |        |
| Node                 | Username | Password        | OS   | Description  | Browsers                        | Commands                      | Types                      | Type path     | Delete |
| 10.0.0.30            | www      | Not24Get        | Linux                                      | bo's server  | IE7<br>IE6<br>Firefox<br>Chrome | *custom /usr/bin/firefox      | RC_php<br>Watir<br>RC_ruby | dev/RC/rc-php |        |
| 10.0.0.12            | test     | Not24Get        | Vista                                      | muldyret     | IE7<br>IE6<br>Firefox<br>Chrome | *iehta<br>*firefox<br>*chrome | RC_php<br>Watir<br>RC_ruby | htdocs/rc-php |        |
| 10.0.0.17            | test     | Not24Get        | 2000                                       | Nye server   | IE7<br>IE6<br>Firefox<br>Chrome | *iehta<br>*firefox<br>*chrome | RC_php<br>Watir<br>RC_ruby | rc-php        |        |
| Add node             |          |                 |  |              |                                 |                               |                            |               |        |
|                      |          |                 | Vista<br>Linux<br>2000<br>os x<br>98<br>95 |              | IE7<br>IE6<br>Firefox<br>Chrome |                               | RC_php<br>Watir<br>RC_ruby |               |        |
| Submit               |          |                 |  |              |                                 |                               |                            |               |        |

Picture 39: Choose OS

## Edit Misc.

As the name indicates, different things can be edited and added here: Types, browsers, OS, user types and sites.



|            |                 |            |                     |                      |
|------------|-----------------|------------|---------------------|----------------------|
| Home       | Projects        | Test Lab   | Test Result Manager | Admin module         |
| log out    |                 | krak.dk    |                     |                      |
| Edit users | Edit core sites | Edit nodes | Edit misc           | Edit usertype access |

| Types    | Browsers    | OS     | Usertypes                                | Sites                  |
|----------|-------------|--------|--|------------------------|
| RC_php   | IE7         | Vista  | Guest name: guest, Guest password: guest | TRM.php                |
| Watir    | IE6         | Linux  | Usertype: inactive                       | accessnodes.php        |
| RC_ruby  | Firefox     | 2000   | robot                                    | adminSubMenu.php       |
| Add type | Chrome      | os x   | admin                                    | adminindex.php         |
|          | Add browser | 98     | manager                                  | corerunner.php         |
|          |             | 95     | tester                                   | createSession.php      |
|          |             | Add OS | supertester                              | delete.php             |
|          |             |        | guest                                    | diff.php               |
|          |             |        | drift                                    | editCron.php           |
|          |             |        | Add usertype                             | editHR.php             |
|          |             |        |  | editMisc.php           |
|          |             |        |  | editNodes.php          |
|          |             |        |  | editProjects.php       |
|          |             |        |  | editSites.php          |
|          |             |        |  | editTests.php          |
|          |             |        |  | editUserTypeAccess.php |
|          |             |        |  | editUsers.php          |
|          |             |        |  | header.php             |
|          |             |        |  | index.php              |
|          |             |        |  | main.php               |
|          |             |        |  | menu.php               |
|          |             |        |  | noderunner.php         |
|          |             |        |  | projectsSubMenu.php    |
|          |             |        |  | projectsindex.php      |
|          |             |        |  | requirements.php       |
|          |             |        |  | saveCron.php           |
|          |             |        |  | saveHR.php             |
|          |             |        |  | saveMisc.php           |
|          |             |        |  | saveNodes.php          |
|          |             |        |  | saveProjects.php       |
|          |             |        |  | saveSites.php          |
|          |             |        |  | saveTests.php          |

Picture 40: Edit misc.

## Edit User type access

This is the place to edit user type access. Choose the type in the dropdown menu

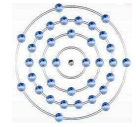
|            |                 |            |                     |                      |
|------------|-----------------|------------|---------------------|----------------------|
| Home       | Projects        | Test Lab   | Test Result Manager | Admin module         |
| log out    |                 | krak.dk    |                     |                      |
| Edit users | Edit core sites | Edit nodes | Edit misc           | Edit usertype access |

| Types           | Browsers | OS | Usertypes   | Sites |
|-----------------|----------|----|-------------|-------|
| Choose usertype |          |    | inactive    |       |
| Choose usertype |          |    | robot       |       |
| Choose usertype |          |    | admin       |       |
| Choose usertype |          |    | manager     |       |
| Choose usertype |          |    | tester      |       |
| Choose usertype |          |    | supertester |       |
| Choose usertype |          |    | guest       |       |
| Choose usertype |          |    | drift       |       |

Picture 41: Edit user type access

Then mark or unmark the boxes to change a user's access.



| Home                                | Projects               | Test Lab    | Test Result Manager | Admin module         |
|-------------------------------------|------------------------|-------------|---------------------|----------------------|
| log out                             | krak.dk                |             |                     |                      |
| Edit users                          | Edit core sites        | Edit nodes  | Edit misc           | Edit usertype access |
| tester                              |                        |             |                     |                      |
| Access                              | Site                   | Description |                     |                      |
| <input checked="" type="checkbox"/> | TRM.php                |             |                     |                      |
| <input checked="" type="checkbox"/> | accessnodes.php        |             |                     |                      |
| <input type="checkbox"/>            | adminSubMenu.php       |             |                     |                      |
| <input type="checkbox"/>            | adminindex.php         |             |                     |                      |
| <input checked="" type="checkbox"/> | corerunner.php         |             |                     |                      |
| <input checked="" type="checkbox"/> | createSession.php      |             |                     |                      |
| <input checked="" type="checkbox"/> | delete.php             |             |                     |                      |
| <input checked="" type="checkbox"/> | diff.php               |             |                     |                      |
| <input type="checkbox"/>            | editCron.php           |             |                     |                      |
| <input checked="" type="checkbox"/> | editHR.php             |             |                     |                      |
| <input type="checkbox"/>            | editMisc.php           |             |                     |                      |
| <input type="checkbox"/>            | editNodes.php          |             |                     |                      |
| <input checked="" type="checkbox"/> | editProjects.php       |             |                     |                      |
| <input type="checkbox"/>            | editSites.php          |             |                     |                      |
| <input checked="" type="checkbox"/> | editTests.php          |             |                     |                      |
| <input type="checkbox"/>            | editUserTypeAccess.php |             |                     |                      |
| <input type="checkbox"/>            | editUsers.php          |             |                     |                      |
| <input checked="" type="checkbox"/> | header.php             |             |                     |                      |
| <input checked="" type="checkbox"/> | index.php              |             |                     |                      |
| <input checked="" type="checkbox"/> | main.php               |             |                     |                      |
| <input checked="" type="checkbox"/> | menu.php               |             |                     |                      |
| <input checked="" type="checkbox"/> | noderunner.php         |             |                     |                      |
| <input checked="" type="checkbox"/> | projectsSubMenu.php    |             |                     |                      |
| <input checked="" type="checkbox"/> | projectsindex.php      |             |                     |                      |
| <input checked="" type="checkbox"/> | requirements.php       |             |                     |                      |
| <input type="checkbox"/>            | saveCron.php           |             |                     |                      |
| <input type="checkbox"/>            | saveHR.php             |             |                     |                      |
| <input type="checkbox"/>            | saveMisc.php           |             |                     |                      |
| <input type="checkbox"/>            | saveNodes.php          |             |                     |                      |
| <input type="checkbox"/>            | saveProjects.php       |             |                     |                      |

Picture 42: Show user type access