

git - Test

The testing process

- The open source project exposed to test is **git**. We have then cloned, compiled and run/used it in our machines.
- Secondly, we have checked the content of the project folder and examined some of the .c files contained.
- For the *deliverable_2* we've decided to take into account the file called **credential.c** which methods operate with '*struct credential*'.

Requirements traceability

Users are most interested in the system meeting its requirements and testing should be planned so that all requirements are individually tested.

Tested items

- credential.c (credential.h)

Testing schedule

The testing schedule is organized according and following each assignment's deadline.

Test recording procedures

The output of the test case will be an HTML file containing the results.

Hardware and software requirements

- Ubuntu 14.04
- gcc 4.9.2

Constraints

No constraints at the moment.

System tests

Test ID: 001

Component being tested: credential.c

Method being tested: int credential_match(const struct credential *want, const struct credential *have)

Requirement being tested: function matches credential protocols

Test input(s): two struct of type credential with same fields, but different protocols.

Expected outcome(s): false

Test ID: 002

Component being tested: credential.c

Method being tested: int credential_match(const struct credential *want, const struct credential *have)

Requirement being tested: function matches credential hosts

Test input(s): two struct of type credential with same fields, but different hosts.

Expected outcome(s): false

Test ID: 003

Component being tested: credential.c

Method being tested: int credential_match(const struct credential *want, const struct credential *have)

Requirement being tested: function matches credential paths

Test input(s): two struct of type credential with same fields, but different paths.

Expected outcome(s): false

Test ID: 004

Component being tested: credential.c

Method being tested: int credential_match(const struct credential *want, const struct credential *have)

Requirement being tested: function matches credential usernames

Test input(s): two struct of type credential with same fields, but different usernames.

Expected outcome(s): false

Test ID: 005

Component being tested: credential.c

Method being tested: int credential_match(const struct credential *want, const struct credential *have)

Requirement being tested: function returns true when all credential fields are equal

Test input(s): two struct of type credential with same fields.

Expected outcome(s): true