☰   🔍 (https://profile.intra.42.fr/searches)   **tglory**

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SCALE FOR PROJECT FT_IRC (/PROJECTS/FT_IRC)

You should evaluate 3 students in this team

★

Git repository

git@vogsphere-v2.42lyon.fr:vogsphere/intra-uuid-e8a229c6·   📋

Introduction

- Remain polite, courteous, respectful and constructive
throughout the evaluation process. The well-being of the community
depends on it.

- Identify with the person (or the group) evaluated the eventual
dysfunctions of the work. Take the time to discuss
and debate the problems you have identified.

- You must consider that there might be some difference in how your
peers might have understood the project's instructions and the
scope of its functionalities. Always keep an open mind and grade
him/her as honestly as possible. The pedagogy is valid only and
only if peer-evaluation is conducted seriously.

Guidelines

- Only grade the work that is in the student or group's
GiT repository.

- Double-check that the GiT repository belongs to the student
or the group. Ensure that the work is for the relevant project
and also check that "git clone" is used in an empty folder.

- Check carefully that no malicious aliases were used to fool you
and make you evaluate something other than the content of the
official repository.

- To avoid any surprises, carefully check that both the evaluating
and the evaluated students have reviewed the possible scripts used
to facilitate the grading.

- If the evaluating student has not completed that particular
project yet, it is mandatory for this student to read the
entire subject before starting the defense.

- Use the flags available on this scale to signal an empty repository,
non-functioning program, norm error, cheating etc. In these cases,
the grading is over and the final grade is 0 (or -42 in case of
cheating). However, except for cheating, you are
encouraged to continue to discuss your work (even if you have not
finished it) to identify any issues that may have caused
this failure and avoid repeating the same mistake in the future.

- Remember that for the duration of the defense, no segfault,
no other unexpected, premature, uncontrolled or unexpected
termination of the program, else the final grade is 0. Use the
appropriate flag.
You should never have to edit any file except the configuration file if it exists.
If you want to edit a file, take the time to explicit the reasons with the
evaluated student and make sure both of you are okay with this.

- You must also verify the absence of memory leaks. Any memory allocated on the heap must
be properly freed before the end of execution.
You are allowed to use any of the different tools available on the computer, such as
leaks, valgrind, or e_fence. In case of memory leaks, tick the appropriate flag.

Attachments

⊡ subject.pdf (https://cdn.intra.42.fr/pdf/pdf/31970/en.subject.pdf)

⊡ bircd.tar.gz (/uploads/document/document/5237/bircd.tar.gz)

Mandatory Part

Verifications

- there is a Makefile, the project compiles correctly, is written in C++, the binary file is called ircserv.
- ask and check how many poll (or equivalent) are present in the code. There must be only one.
- verify that the poll (or equivalent) is called every time before each accept, read/recv, write/send . After these
calls, errno should not be used to trigger specific action (like read again after errno == EAGAIN for ex.).
- verify that each call to fnctl is as follows:
fcntl(fd, F_SETFL, O_NONBLOCK);
Any other use of fcntl is forbidden.
- if those constraints are not fulfilled, stop here the evaluation, and the final mark is 0.

         ⧄ Yes   ✕ No

Networking

Check the following items :
- server launches and is listening on all network interfaces, on the given port from the command line, and on the port.
- using the 'nc' tool, you can connect to the server, send commands, and the server is answering.
- ask the team for their reference IRC client.
- using this irc client, you can connect on the server
- the server can handle multiple connections at the same time. At any moment, the server should not block and be able to answer all demands. Try with irc clients, nc tool, at the same time.
- send the needed commands to join a channel. Control that all messages from one client on that channel are sent to all other clients of the channel.

✓ Yes   ✗ No

Networking Specials

Network communications can be disturbed by many strange situations.
- just like in the subject, using nc, try to send partial commands. Check that the server answers correctly. With a partial command sent, control that other connections are running fine.
- unexpectedly kill a client, and check that the server is still operational on other connections and for new incoming clients.
- unexpectedly kill a nc with just half of a command sent. Check again that the server is not in an odd state or blocked.
- stop a client (^-Z) connected on a channel, and then flood the channel using another client. The server should not hang. When the client is live again, all stored commands should be processed normally. Also control that there is no memory leak on the server during this operation.

✓ Yes   ✗ No

Client Commands

- With both nc and a regular irc client, check that you can authenticate, set a nickname, a username, join a channel. This should be ok, you should have already used this above.
- Control that private messages and notices are fully functional, with several parameters (PRIVMSG and NOTICE).
- Check that a regular user does not have privileges to do operator actions, then test with an operator.
All the channel operation commands should be tested.
(remove one point for each not working feature)

Rate it from 0 (failed) through 5 (excellent)

File transfer

file transfer works with the ref. client.

✓ Yes   ✗ No

A small bot

There's an IRC bot.

    ✓ Yes   ✕ No

Ratings

Don't forget to check the flag corresponding to the defense

✔ Ok   ★ Outstanding project

■ Empty work   ☠ Invalid compilation   ▣ Cheat   ♟ Crash   ♟ Incomplete group

● Leaks   ⊘ Forbidden function

Conclusion

Leave a comment on this evaluation

[   ]

Finish evaluation