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SCALE FOR PROJECT TASKMASTER (/PROJECTS/TASKMASTER)

You should evaluate 2 students in this team



Git repository

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Introduction

In order to have a productive and tolerable grading session, we ask that you:

- Stay courteous, polite, respectful and constructive during this session. The bond of trust between members of the 42 community depends on it;
- Take care to show the graded person(s) the problems you notice, and explain them as best you can;
- Accept that there may be differences in interepretation on the featureset and/or what the subject requires. Stay open-minded, try to honestly determine who is right and who is not, and grade accordingly.

Guidelines

Remember that you must ONLY grade what's on the turn-in repository!

You have to "git clone" the repository, and grade what's on it, AND ONLY WHAT IS ON IT.

Attachments

En - Subject (https://cdn.intra.42.fr/pdf/pdf/5813/taskmaster.en.pdf)

Preliminary checks

First and foremost

Check the following elements:

- There is something in the git repository
- The Makefile, if applicable, is present and has the required rules
- No unauthorized libraries are used. In this project, the students can use any language they want, and external libraries are only permitted for the sake of parsing the configuration and doing the client/server bonus. Other than that, the limit is the standard library.

If one of these elements is not in confirmity with what the subject requires, the session stops. You may still debate on the project, but you are not to grade the students.

During the rest of this session, if the program has an inappropriate behaviour (Segfault, bus error, double-free, uncaught exception, etc ...), the session stops.



 \times No

Basic features

For this entire section, the students have to PROVE to you that what this grading scale asks is valid for their program. For example, if they cannot show you that programs are indeed restarted when they die, then they do not deserve points on the related question. Repeat, do NOT count a question as true if the students are not able to prove to you that it is. It is a requirement of the subject.

Control shell

The program offers some kind of control shell, either in the program itself or in a separate program (like supervisorctl). The shell allows one to start, stop, and restart programs.



ΧNο

Configuration file

The program loads its running configuration from a configuration file, whatever the format. For this feature, external libraries

(like yaml parsing libraries, for example) are allowed. Programs
described in the configuration file are actually loaded, their
status can be accessed with the shell, etc

✓ Yes

 \times No

Logging

There is a logging system that logs to a file or better (More points in the bonus section for this). For this to be true, there has to be a reasonable number of distinct events taken into consideration:

When programs are started, stopped, restarted, when they die unexpectedly, when the project aborts starting them because of too many retries, etc...

✓ Yes

 \times No

Hot-reload

The configuration can be reloaded while the program is running, both with a SIGHUP and with a shell command. When the reload takes effect, the running state of the program has to be altered to conform to the new configuration. However, programs that are not affected by the configuration change must not be restarted in any way (That would be very, very sloppy)

✓ Yes

 \times No

Configuration options

For this section, each question regards a specific configuration option that is required by the subject. The students must show you which option in their configuration scheme is concerned, and then show you that it works as requested.

Command used to launch the program

Command used to launch the program

✓ Yes

 \times No

Number of processes to start and keep running

×No No unexpected exit	
×No	
on unexpected exit	
ted exit	
imesNo	
imesNo	
y started"	
imesNo	
porting	
imesNo	
	×No No No borting

Yes		Yes
-----	--	-----

\ /		
X	N	2

How long to wait after a graceful stop attempt before killing the program

How long to wait after a graceful stop attempt before killing the program

 \times No

Option to redirect stdout/stderr to a file or to discard them

Option to redirect stdout/stderr to a file or to discard them

✓ Yes

 \times No

Environment variables to set for this program

Environment variables to set for this program

 \times No

Working directory for this program

Working directory for this program

✓ Yes

 \times No

Umask for this program

Umask for this program

✓ Yes

 \times_{No}

Tests

Tests

Does the program stand up to a variety of tests?

You should begin by trying the following:

- Kill a supervised process, and check that it does restart automatically
- Try supervising a process that only ever exits with an error, and check that it is indeed aborted after a set number of retries

You should then try any (reasonable) test you can think of to make the program behave erratically. If there is a conflict between you and the students about what constitutes a reasonable test, the one with the baseball bat is right.

If the program is still standing, then answer Yes. Otherwise... too bad!





Bonuses

Bonuses

Count 1 for each distinct, correctly implemented, and at least vaguely useful bonus feature.

Here are the ones suggested by the subject:

- Privilege de-escalation on launch (allows a program to run as a specific user)
- Client/server architecture like supervisor (Main program is a daemon that actually does the work, and a separate program communicates with it via unix/tcp sockets or another method to provide the control shell)
- More advanced logging/reporting facilities (Email, http, syslog, whatever)
- Option to "attach" a supervised process to the current console, in the fashion of screen or tmux (Counts for 2!).

Of course, any other bonus that the students decided to implement counts as well.



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

Ratings Don't forget to check the flag corresponding to the defense **✓** Ok ★ Outstanding project Empty work Incomplete work No author file nvalid compilation **∄** Norme T Crash Cheat Incomplete group **O** Forbidden function Leaks **Conclusion** Leave a comment on this evaluation Finish evaluation

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