



SOFTWARE ENGINEER IN TEST - TEST ASSIGNMENT

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Intro

[Netdata agent](#) is an open-source tool designed to collect real-time metrics, such as CPU usage, disk activity, bandwidth usage, website visits, etc., and then display them in live, easy-to-interpret charts. The tool is designed to visualize activity in the greatest possible detail, allowing the user to obtain an overview of what is happening and what has just happened in their system or application.

Netdata agent periodically checks for anomalies on the aforementioned metrics and based on a set of configurations (both default and custom) reports each detected anomaly in the form of an Alarm.

Deliverables

Using any testing framework and programming language of your choice, automate the process of installing the agent in your system, using any method of installation and write an **automated** end to end test covering the following scenario:

- 1) Trigger any type of alarm
- 2) Verify that in the UI you see the alarm as active
- 3) Verify that the health API returns the expected information
- 4) Turn the alarm off and repeat verifications.

You may provide your code in any format you wish (a zipped file, a shareable link to a cloud storage, a github link etc).

Please accompany your solution with a report, covering the following areas:

- 1) Choice of frameworks: why you made these specific choices.
- 2) Instructions for running the test: your code needs to be executable. Please include instructions to the reviewer in the form of steps needed (dependencies etc) in order to execute the test successfully.
- 3) Smoke suite test plan: Assume you are in charge of quality for the following release of the agent. You have no time for a full regression test preparation and you want to concentrate on the most important features and verify that they work as expected for the upcoming release. Present a brief description of your test plan for this case.
- 4) Note possible improvements of your work, if any.