

Live Docker Containers

This is the questionnaire for the Live Docker Containers User Study. Fill this questionnaire according to the instructions provided.

***Required**

Demographic Information

1. Gender *

Mark only one oval.

- ☐ Female
- ☐ Male
- ☐ Prefer not to say
- ☐ Other: _____

2. Age *

3. What is the highest degree or level of education you have completed? *

Mark only one oval.

- ☐ High School
- ☐ Bachelor's degree
- ☐ Master's degree
- ☐ Doctoral degree

Skills and Experience

4. At this point in time I am comfortable working with... *

Mark only one oval per row.

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
...Docker technologies.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...Dockerfiles.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...Visual Studio Code.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...Visual Studio Code to edit Dockerfiles.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...linters.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...syntax highlighters.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...Unix operating systems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...Javascript and NodeJS.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...Python.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Until now, approximately in how many projects have you ...

5. ... worked on that had a Dockerfile? *

6. ... used Dockerfiles created by others (colleagues or third parties)? *

7. ... created/updated a Dockerfile? *

8. In the Dockerfiles I've developed, I've specified...

Tick all that apply.

- ☐ ... arguments/variables (ARG instruction).
- ☐ ... volumes (VOLUME instruction).
- ☐ ... the user (USER instruction).
- ☐ ... the working directory (WORKDIR instruction).
- ☐ ... environment variables (ENV instruction).

9. I have a good enough understanding of English so that I can confidently answer this survey and understand sentences with Docker and Unix related terms. *

1- Strongly Disagree / 2- Disagree / 3- Neutral / 4- Agree / 5- Strongly Agree

Mark only one oval.

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree

DF1

Instructions for this task are available in the provided document.

Fill this section after finishing the task.

10. It was simple to understand the objective of the task and the task's instructions. *

1- Strongly Disagree / 2- Disagree / 3- Neutral / 4- Agree / 5- Strongly Agree

Mark only one oval.

1 2 3 4 5

Strongly Disagree ☐ ☐ ☐ ☐ ☐ Strongly Agree

11. Which of these features did you use to solve this task? (If you don't remember the name of a specific feature, the instructions document contains a list with all the features using the same names.) *

Tick all that apply.

- ☐ Static Analysis Errors
- ☐ Docker Management
- ☐ Image Build and Container Runtime Errors
- ☐ Changes to environment variables
- ☐ Processes running in the container
- ☐ Container performance statistics
- ☐ Open shell inside container
- ☐ Base image OS information
- ☐ Layer Size and Build Time
- ☐ Explore each layer's filesystem
- ☐ Service discovery
- ☐ Container log output
- ☐ None

Other: ☐ _____

DF2

Instructions for this task are available in the provided document.

Fill this section after finishing the task.

12. It was simple to understand the objective of the task and the task's instructions. *

1- Strongly Disagree / 2- Disagree / 3- Neutral / 4- Agree / 5- Strongly Agree

Mark only one oval.

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree

13. Which of these features did you use to solve this task? (If you don't remember the name of a specific feature, the instructions document contains a list with all the features using the same names.) *

Tick all that apply.

- ☐ Static Analysis Errors
- ☐ Docker Management
- ☐ Image Build and Container Runtime Errors
- ☐ Changes to environment variables
- ☐ Processes running in the container
- ☐ Container performance statistics
- ☐ Open shell inside container
- ☐ Base image OS information
- ☐ Layer Size and Build Time
- ☐ Explore each layer's filesystem
- ☐ Service discovery
- ☐ Container log output
- ☐ None

Other: ☐ _____

DF3

Instructions for this task are available in the provided document.

Fill this section after finishing the task.

14. It was simple to understand the objective of the task and the task's instructions. *

1- Strongly Disagree / 2- Disagree / 3- Neutral / 4- Agree / 5- Strongly Agree

Mark only one oval.

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree

15. Which of these features did you use to solve this task? (If you don't remember the name of a specific feature, the instructions document contains a list with all the features using the same names.) *

Tick all that apply.

- ☐ Static Analysis Errors
- ☐ Docker Management
- ☐ Image Build and Container Runtime Errors
- ☐ Changes to environment variables
- ☐ Processes running in the container
- ☐ Container performance statistics
- ☐ Open shell inside container
- ☐ Base image OS information
- ☐ Layer Size and Build Time
- ☐ Explore each layer's filesystem
- ☐ Service discovery
- ☐ Container log output
- ☐ None

Other: ☐ _____

After tasks

Fill this section after finishing all the tasks.

16. Select your opinion towards the following sentences: *

Mark only one oval per row.

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
It was easy working with the remote desktop environment.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Having feedback displayed in the IDE (instead of, for example, in an external tool) helped me solve the tasks more quickly.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I found it easy to get all the information I needed to solve the tasks without leaving the IDE.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The feedback provided inside the IDE made it easier to solve the designated tasks.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

17. I felt overwhelmed by...

Mark only one oval per row.

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
...the quantity of information displayed inside VSCode.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...the way the information was displayed inside VSCode.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

18. During the execution of the tasks, the feedback provided in the IDE helped me... *

Mark only one oval per row.

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
...finding out what parent image is the most suitable.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...finding out what are the dependencies of the system that must be added to the docker image.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...finding out what are the Dockerfile commands that I need.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...trying to understand if the resulting container is working as intended (e.g., running commands and tests on the container).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...trying to understand why the resulting container is not working as intended.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...finding out which commands are responsible for the container misbehaviour.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
...rebuilding the image and re-running the container to confirm that it is working as intended.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

19. Which features do you feel were the most useful? And why?

20. What problems did you run into while working with this level of feedback?

21. How would you improve this level of feedback?

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