

# Assignment 2: Software engineering for connected fleets

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MPMOB

## a). OpenDLV tutorials

First, I follow the OpenDLV tutorials, got the following results:

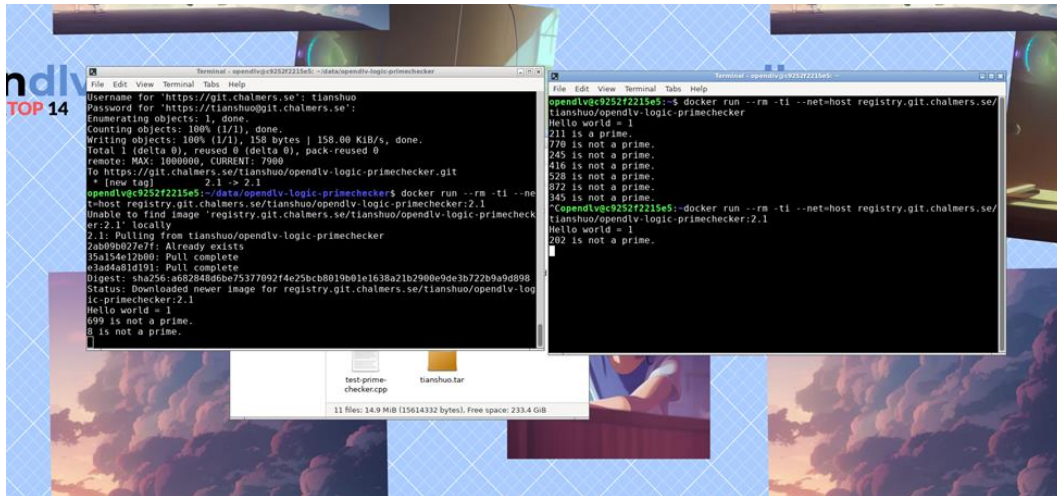


Figure 1.1 Final results

Then, I changed the **Dockerfile**, which can implement the same function as Alpine Linux, but I change it with Ubuntu as a base image instead. The following picture is my **Dockerfile** screenshot from my **Gitlab**.

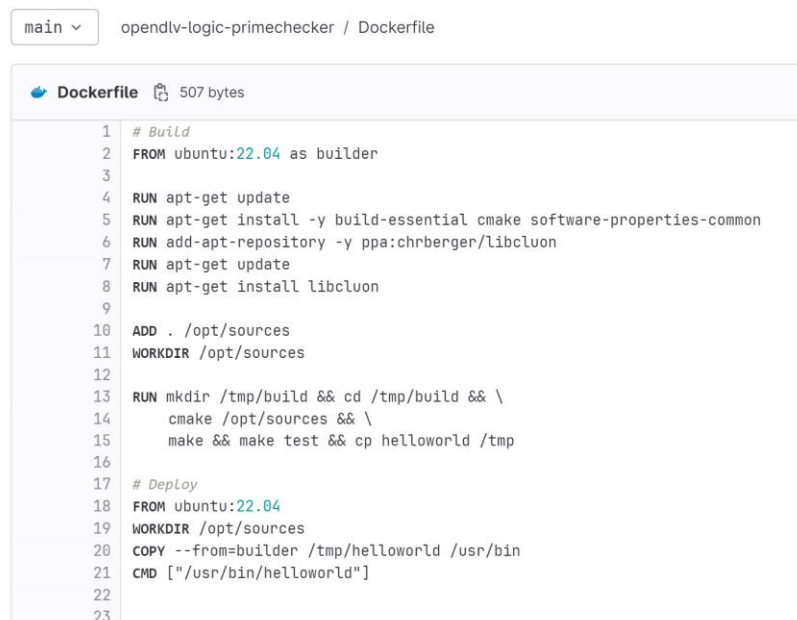


Figure 1.2 Dockerfile screenshot

## b).CI/CD

Run the following command:

```
docker login registry.git.chalmers.se
```

```
docker run --rm -ti --net=host registry.git.chalmers.se/tianshuo/opendlv-logic-primechecker:2.1
```

you can also run

```
docker compose up
```

in the folder which contains *docker-compose.yml* file

*version: '3'*

*services:*

*prime-checker-0:*

*image: registry.git.chalmers.se/tianshuo/opendlv-logic-primechecker:2.1*

*network\_mode: "host"*

*command: "/usr/bin/helloworld"*

The screenshots as following:

## Pipeline

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All 14	Finished	Branches	Tags	Clear runner caches	CI lint	Run pipeline
Filter pipelines				Q	Show Pipeline ID v	
Status	Pipeline	Triggerer	Stages			
<div>passed</div> <div>00:09:15</div> <div>18 hours ago</div>	tar file <a href="#">#77066</a> 2.1 56e7d779 latest			<div>download</div>		
<div>passed</div> <div>00:01:37</div> <div>1 day ago</div>	tar file <a href="#">#77034</a> main 56e7d779 latest			<div>download</div>		
<div>passed</div> <div>00:01:31</div> <div>2 weeks ago</div>	Adding Dockerfile <a href="#">#75000</a> main ea75a3c0			<div>download</div>		

tar file

1 job for 2.1

in 9 minutes and 15 seconds and was queued for 1 second

latest

50e7d779

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Pipeline

Needs

Jobs 1

Tests 0

deploy

release

GitLab container registry

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opendlv-logic-primechecker

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<input type="checkbox"/>	1.1.1	0 bytes	Published just now	Digest: Not applicable.
<input type="checkbox"/>	2.1	0 bytes	Published just now	Digest: Not applicable.
<input type="checkbox"/>	latest	29.40 MiB	Published 8 hours ago	Digest: 2f6bc32

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opendlv-logic-primechecker


Project ID: 11034

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📄 CI/CD configuration

📄 Add LICENSE














📄 Add CHANGELOG

📄 Add CONTRIBUTING

📄 Add Kubernetes cluster

📄 Add Wiki

⚙ Configure Integrations

Name	Last commit	Last update
 .gitignore	Initial version	1 month ago
 .gitlab-ci.yml	Enabled cross compilation	4 weeks ago
 CMakeLists.txt	Initial version	1 month ago
 Dockerfile	Adding Dockerfile	2 weeks ago
 README.md	Improved documentation	1 month ago
 catch.hpp	Initial version	1 month ago
 clunon-complete.hpp	Initial version	1 month ago
 helloworld.cpp	Removed the need for manual input	1 month ago
 messages.odvd	Initial version	1 month ago
 prime-checker.cpp	Initial version	1 month ago
 prime-checker.hpp	Initial version	1 month ago
 test-prime-checker.cpp	Initial version	1 month ago
 tianshuo.tar	tar file	9 hours ago

📄 README.md

opendlv-logic-primechecker

A highly useful microservice.

## Two terminals' results

