



# CLOUD COMPUTING

by Kevin Perdana



IBM Cloud  
Google Cloud Platform  
Amazon Web Services

# CLOUD COMPUTING

## Linux Desktop Container on Google Cloud Platform

1. Buka dan login di <https://console.cloud.google.com/>.

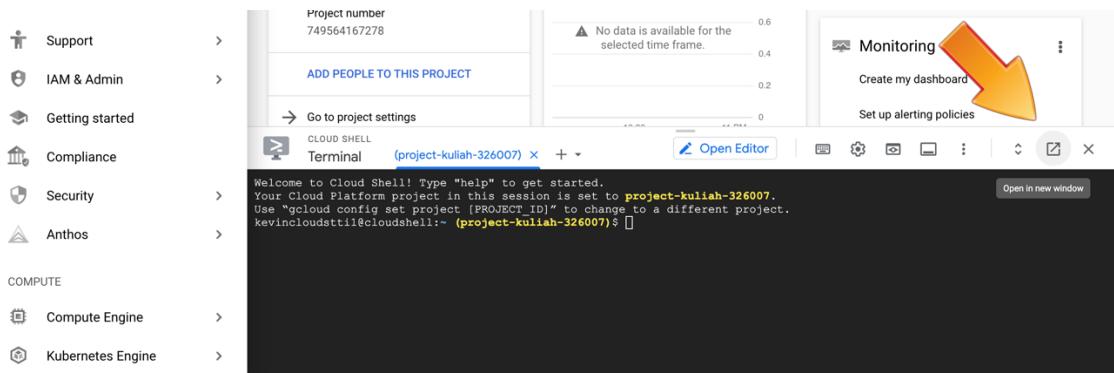
The screenshot shows the Google Cloud Platform dashboard for the 'Project Kuliah' project. The left sidebar includes links for Home, Recent, Marketplace, Billing, APIs & Services, Support, IAM & Admin, Getting started, Compliance, Security, and Anthos. Under COMPUTE, there are links for Compute Engine and Kubernetes Engine. The main dashboard area displays 'Project info' (Project name: Project Kuliah, Project ID: project-kuliah-326007, Project number: 749564167278), 'API APIs' (Requests (requests/sec) chart from 10:30 to 11 PM), 'Google Cloud Platform status' (All services normal), 'Monitoring' (Create my dashboard, Set up alerting policies, Create uptime checks, View all dashboards, Go to Monitoring), and 'API Error Reporting' (No sign of any errors). A 'Cloud Shell' modal is partially visible at the bottom.

2. Pilih **Activate Cloud Shell** dan klik **Continue**.

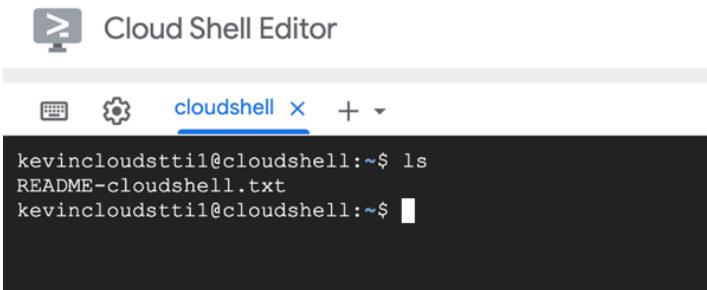
The screenshot shows the same Google Cloud Platform dashboard as above, but with a large yellow arrow pointing to the 'Activate Cloud Shell' button in the top right corner of the dashboard header. A 'Cloud Shell' modal is now prominently displayed in the foreground, containing text about Cloud Shell and a 'Continue' button. The rest of the dashboard content is visible in the background.

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3. Setelah aktif, klik **Open in new window** untuk **maximize** Cloud Shell.

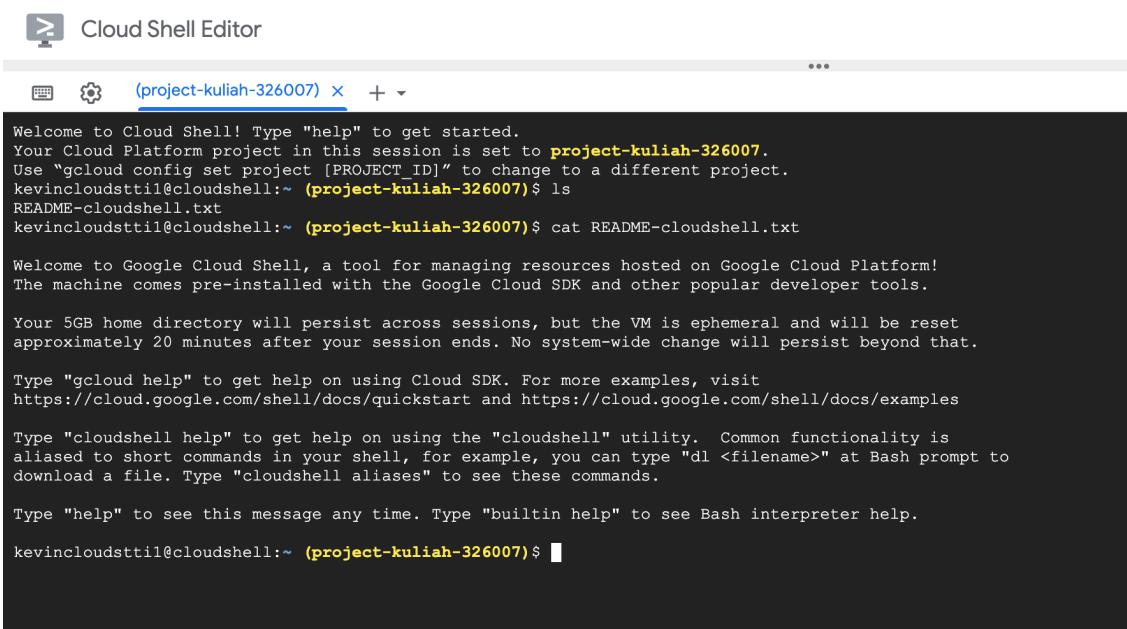


4. Lihat list directory pada Cloud Shell dengan cara ketik **ls** kemudian **enter**.



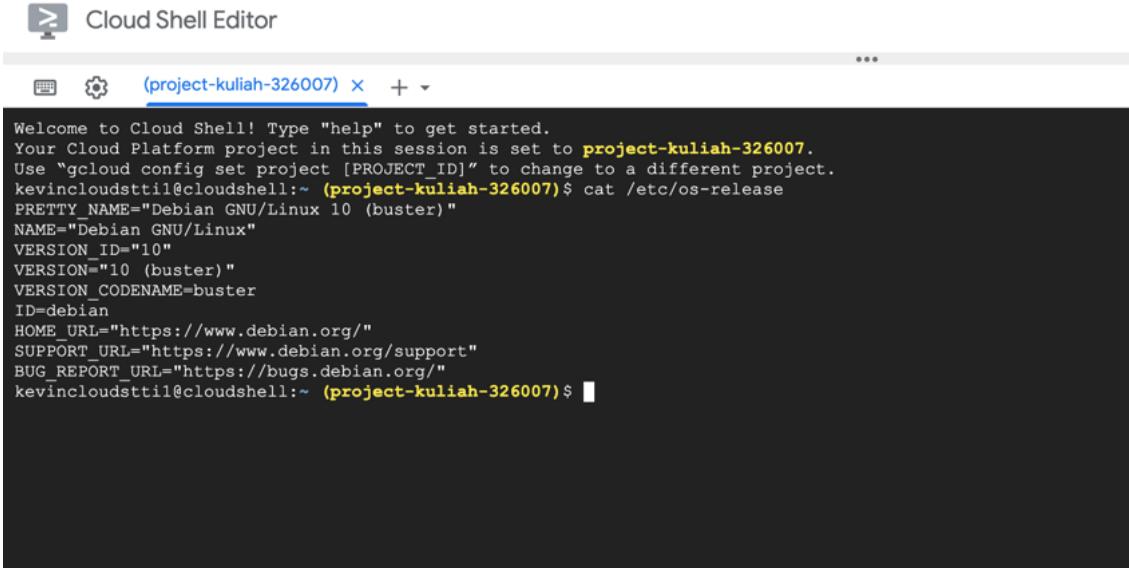
5. Baca ketentuan Virtual Machine yang dipakai user secara default dengan cara ketik **cat README-cloudshell.txt**

Terterima bahwa "VM bersifat sementara dan akan direset kurang lebih 20 menit apabila user tidak berinteraksi dengan Cloud Shell console".



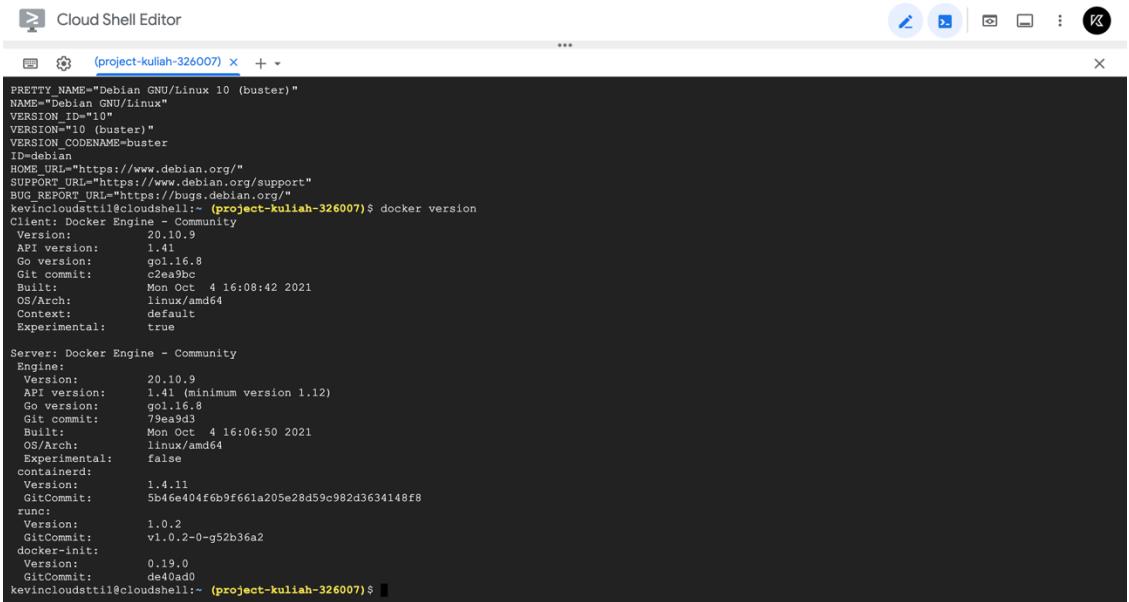
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6. Cek jenis OS yang digunakan user melalui Cloud Shell dengan cara ketik **cat /etc/os-release**.



```
Welcome to Cloud Shell! Type "help" to get started.  
Your Cloud Platform project in this session is set to project-kuliah-326007.  
Use "gcloud config set project [PROJECT_ID]" to change to a different project.  
kevincloudstt1@cloudshell:~ (project-kuliah-326007)$ cat /etc/os-release  
PRETTY_NAME="Debian GNU/Linux 10 (buster)"  
NAME="Debian GNU/Linux"  
VERSION_ID="10"  
VERSION="10 (buster)"  
VERSION_CODENAME=buster  
ID=debian  
HOME_URL="https://www.debian.org/"  
SUPPORT_URL="https://www.debian.org/support"  
BUG_REPORT_URL="https://bugs.debian.org/"  
kevincloudstt1@cloudshell:~ (project-kuliah-326007)$
```

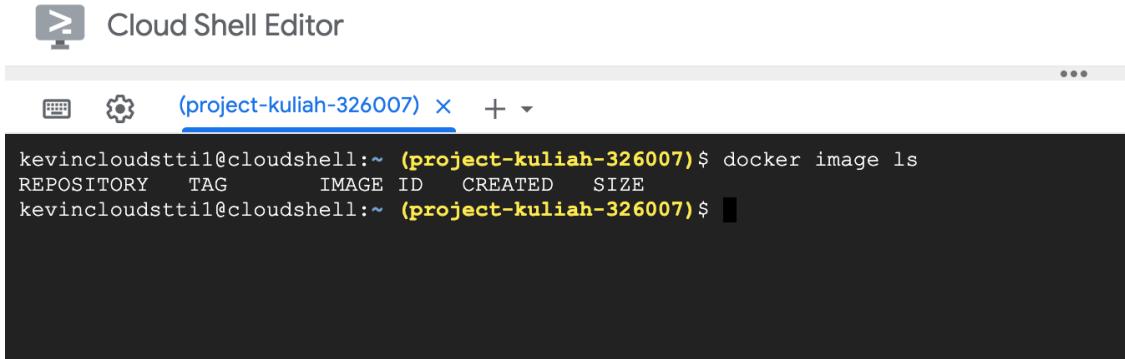
7. Docker sudah terinstal secara default di Google Cloud. Cara mengecek versi Docker ketik **docker version** kemudian enter.



```
PRETTY_NAME="Debian GNU/Linux 10 (buster)"  
NAME="Debian GNU/Linux"  
VERSION_ID="10"  
VERSION="10 (buster)"  
VERSION_CODENAME=buster  
ID=debian  
HOME_URL="https://www.debian.org/"  
SUPPORT_URL="https://www.debian.org/support"  
BUG_REPORT_URL="https://bugs.debian.org/"  
kevincloudstt1@cloudshell:~ (project-kuliah-326007)$ docker version  
Client: Docker Engine - Community  
Version: 20.10.9  
API version: 1.41  
Go version: go1.16.8  
Git commit: c2ea9bc  
Built: Mon Oct 4 16:08:42 2021  
OS/Arch: linux/amd64  
Context:  
Experimental: true  
  
Server: Docker Engine - Community  
Engine:  
Version: 20.10.9  
API version: 1.41 (minimum version 1.12)  
Go version: go1.16.8  
Git commit: 79eab3d  
Built: Mon Oct 4 16:06:50 2021  
OS/Arch: linux/amd64  
Experimental: false  
containerd:  
Version: 1.4.11  
GitCommit: 5b16e404f6b9f661a205e28d59c982d3634148f8  
runc:  
Version: 1.0.2  
GitCommit: v1.0.2-0-g52b36a2  
docker-init:  
Version: 0.19.0  
GitCommit: de40ad0  
kevincloudstt1@cloudshell:~ (project-kuliah-326007)$
```

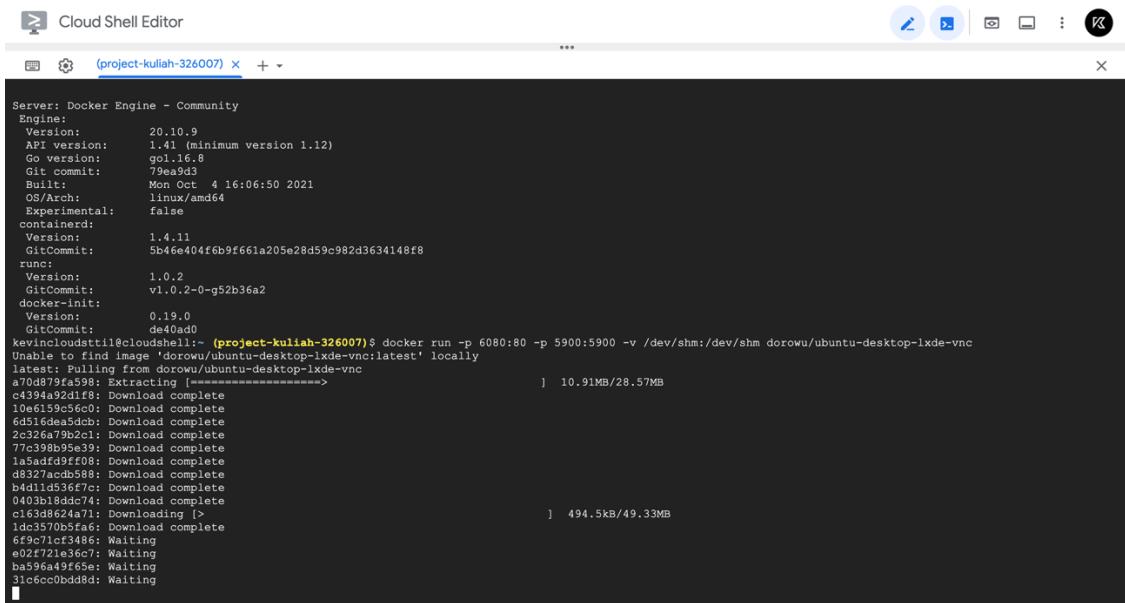
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8. Cek image docker yang telah Anda instal dengan cara ketik **docker image ls**. Apabila belum ada image yang diinstal maka tampilan daftar/list image tidak ada.



```
kevincloudstil@cloudshell:~ (project-kuliah-326007) $ docker image ls
REPOSITORY      TAG      IMAGE ID      CREATED       SIZE
kevincloudstil@cloudshell:~ (project-kuliah-326007) $
```

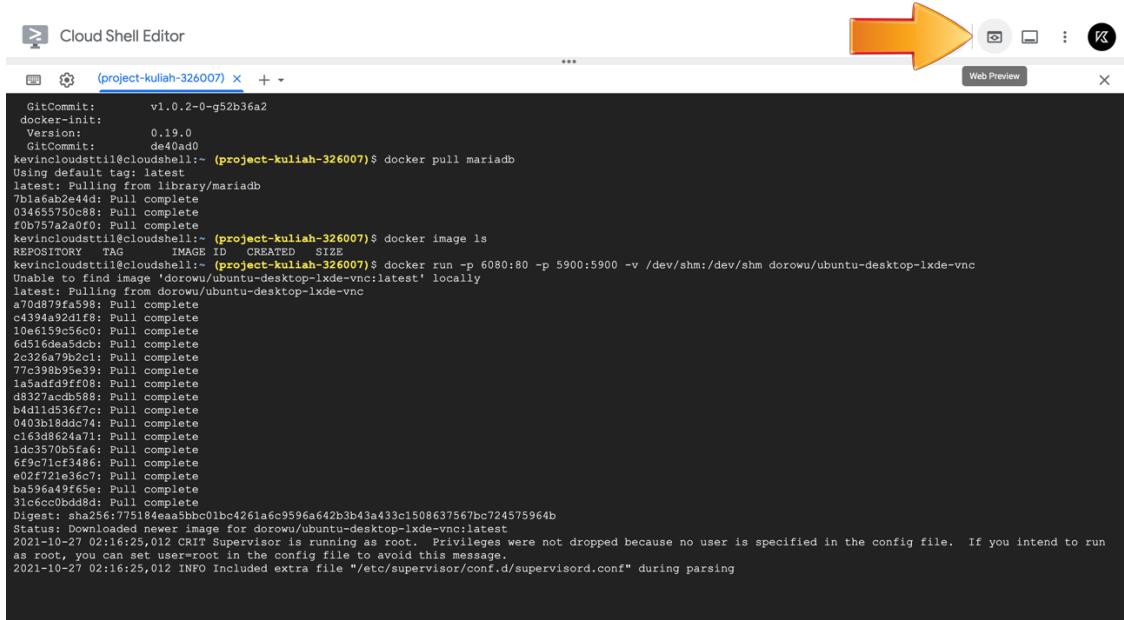
9. Instal Ubuntu Docker image dengan mengetik **docker run -p 6080:80 -v /dev/shm:/dev/shm dorowu/ubuntu-desktop-lxde-vnc**



```
kevincloudstil@cloudshell:~ (project-kuliah-326007) $ docker run -p 6080:80 -p 5900:5900 -v /dev/shm:/dev/shm dorowu/ubuntu-desktop-lxde-vnc
Unable to find image 'dorowu/ubuntu-desktop-lxde-vnc:latest' locally
latest: Pulling from dorowu/ubuntu-desktop-lxde-vnc
a70db79fa598: Extracting [=====] 10.91MB/28.57MB
c4394a92d1f8: Download complete
10e6159c56c0: Download complete
6d516dea5dc0: Download complete
2c326a79b2c1: Download complete
77c398b95e39: Download complete
1a5adf9ff08: Download complete
d9327acd588: Download complete
b41b3a667c7: Download complete
0030b18d401: Download complete
c163d8624a71: Downloading [>] 494.5kB/49.33MB
1dc3570b5fa6: Download complete
6f9c71cf3486: Waiting
e02f721e36c7: Waiting
ba596a49f65e: Waiting
31c6cc0bdd8d: Waiting
```

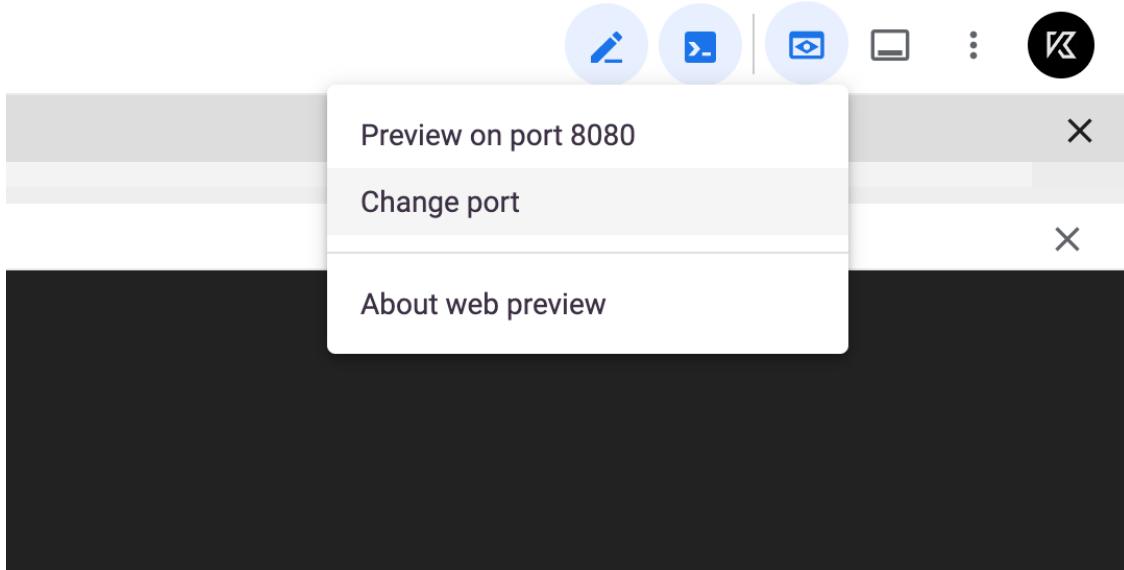
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- Setelah selesai, jalankan dengan cara klik **Web Preview** di pojok kanan atas.



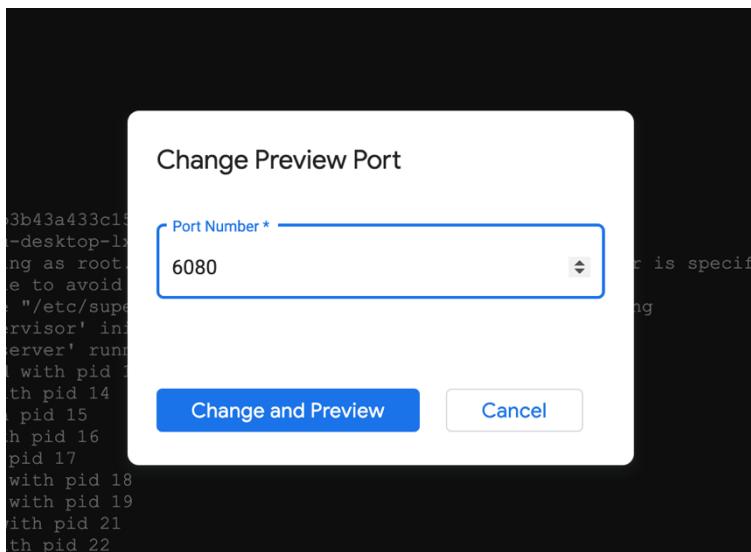
```
Cloud Shell Editor
(project-kuliah-326007) X + ·
GitCommit: v1.0.2-0-g52b36a2
docker-init: 0.19.0
GitCommit: de40ad0
kevincloudsttil@cloudshell1:~ (project-kuliah-326007)$ docker pull mariadb
Using default tag: latest
latest: Pulling from library/mariadb
7b16a6b2e44d: Pull complete
03469a59e598: Pull complete
f0b57aa20f0: Pull complete
kevincloudsttil@cloudshell1:~ (project-kuliah-326007)$ docker image ls
REPOSITORY TAG IMAGE ID CREATED SIZE
kevincloudsttil@cloudshell1:~ (project-kuliah-326007)$ docker run -p 6080:80 -p 5900:5900 -v /dev/shm:/dev/shm dorowu/ubuntu-desktop-lxde-vnc
Unable to find image 'dorowu/ubuntu-desktop-lxde-vnc:latest' locally
latest: Pulling from dorowu/ubuntu-desktop-lxde-vnc
a70d879fa598: Pull complete
c4394a92d1f8: Pull complete
10e6159c56c0: Pull complete
6d516dea5dc0: Pull complete
2c326a79b2c1: Pull complete
77c398b95e39: Pull complete
1a54dfdf9ff08: Pull complete
d8327acd588: Pull complete
b4d11d536f7c: Pull complete
046303a151: Pull complete
e53d8524a71: Pull complete
1dc3570b5fa6: Pull complete
6f9c71cf3486: Pull complete
e02f721e36c7: Pull complete
ba596a49f65e: Pull complete
31c6ccc0bdd8d: Pull complete
Digest: sha256:775184eaa5bbc01bc4261a6c9596a642b3b43a43c1508637567bc724575964b
Status: Downloaded newer image for dorowu/ubuntu-desktop-lxde-vnc:latest
2021-10-27 02:16:25,012 CRIT Supervisor is running as root. Privileges were not dropped because no user is specified in the config file. If you intend to run as root, you can set user=root in the config file to avoid this message.
2021-10-27 02:16:25,012 INFO Included extra file "/etc/supervisor/conf.d/supervisord.conf" during parsing
```

- Pilih **Change port**.



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12. Ketik **6080** dan klik Change and Preview.



13. Tampilan Ubuntu Desktop terbuka pada tab baru browser.

