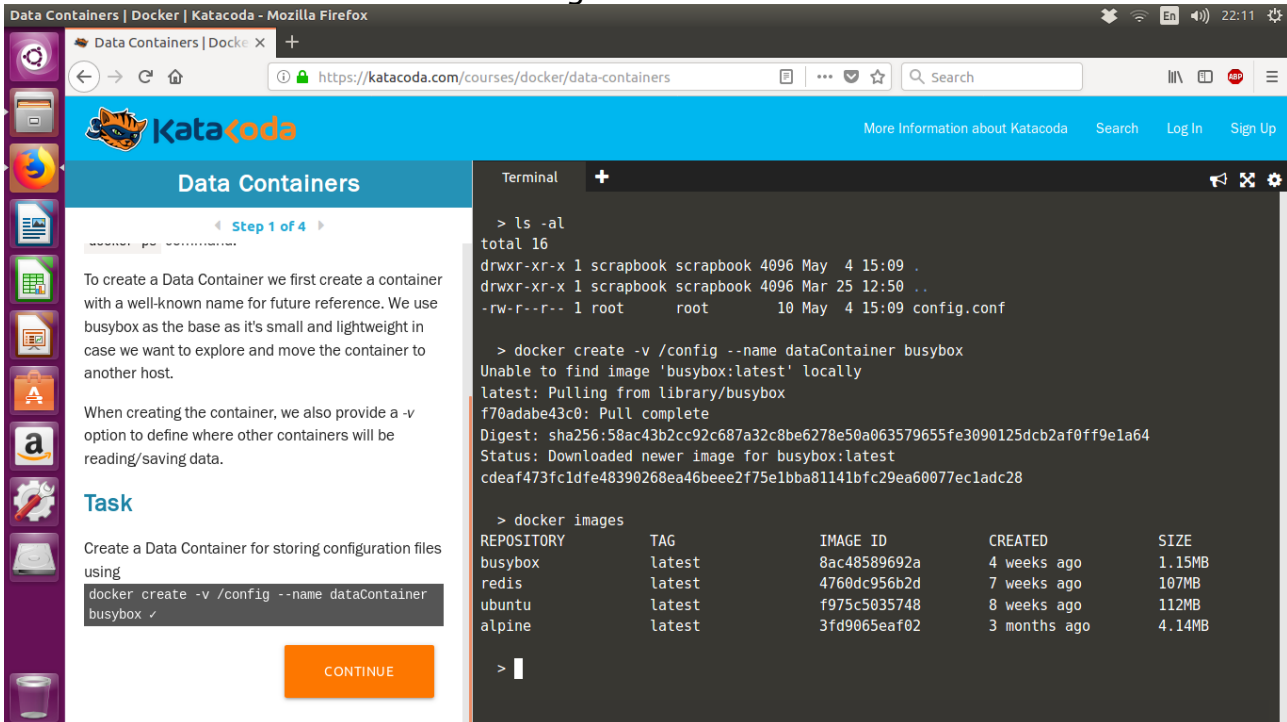


# CREATE DATA CONTAINER

## 1. membuat data container untuk konfigurasi file



**Data Containers**

Step 1 of 4

To create a Data Container we first create a container with a well-known name for future reference. We use busybox as the base as it's small and lightweight in case we want to explore and move the container to another host.

When creating the container, we also provide a `-v` option to define where other containers will be reading/saving data.

**Task**

Create a Data Container for storing configuration files using

```
docker create -v /config --name dataContainer busybox
```

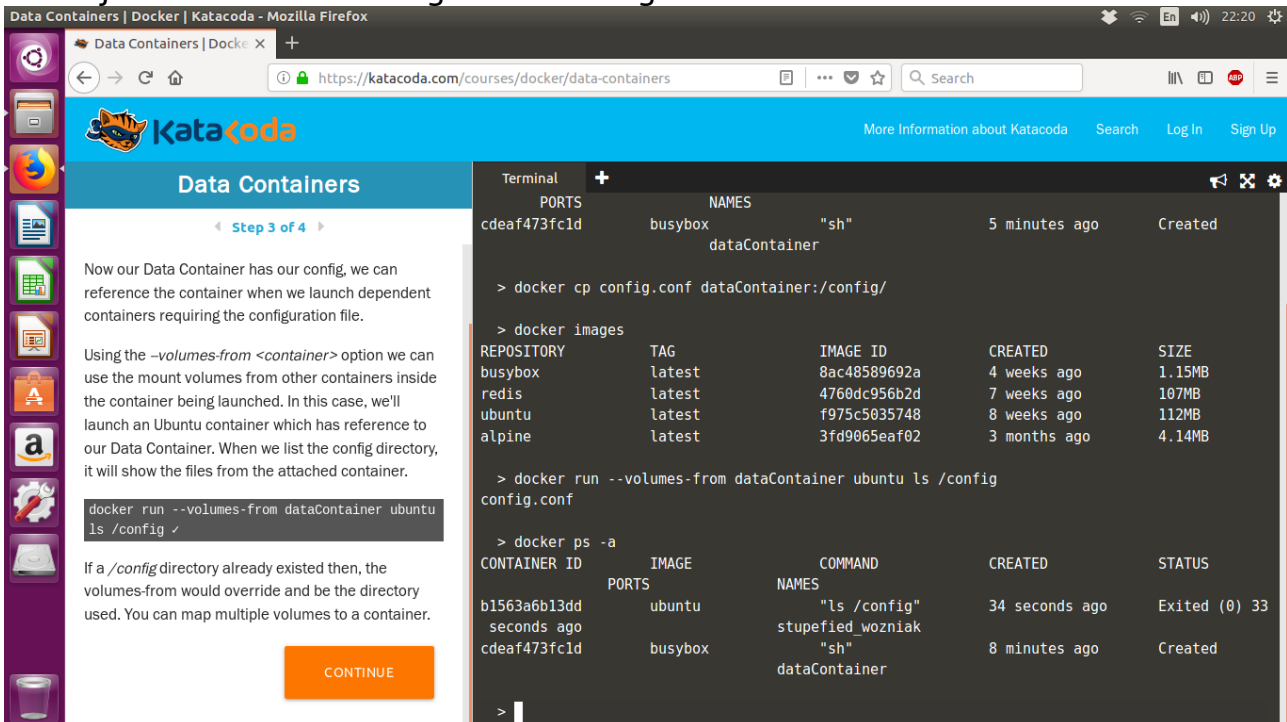
**Terminal**

```
> ls -al
total 16
drwxr-xr-x 1 scrapbook scrapbook 4096 May  4 15:09 .
drwxr-xr-x 1 scrapbook scrapbook 4096 Mar 25 12:50 ..
-rw-r--r-- 1 root      root      10 May  4 15:09 config.conf

> docker create -v /config --name dataContainer busybox
Unable to find image 'busybox:latest' locally
latest: Pulling from library/busybox
f70adabe43c0: Pull complete
Digest: sha256:58ac43b2cc92c687a32c8be6278e50a063579655fe3090125dcb2af0ff9e1a64
Status: Downloaded newer image for busybox:latest
cdeaf473fcdfe48390268ea46beee2f75e1bba81141bfc29ea60077ec1adc28

> docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
busybox              latest              8ac48589692a       4 weeks ago        1.15MB
redis                latest              4760dc956b2d       7 weeks ago        107MB
ubuntu               latest              f975c5035748       8 weeks ago        112MB
alpine               latest              3fd9065eaf02       3 months ago       4.14MB
```

## 2. menjalankan container image ubuntu dengan membaca volume container lain



**Data Containers**

Step 3 of 4

Now our Data Container has our config, we can reference the container when we launch dependent containers requiring the configuration file.

Using the `--volumes-from <container>` option we can use the mount volumes from other containers inside the container being launched. In this case, we'll launch an Ubuntu container which has reference to our Data Container. When we list the config directory, it will show the files from the attached container.

```
docker run --volumes-from dataContainer ubuntu ls /config
```

If a `/config` directory already existed then, the `volumes-from` would override and be the directory used. You can map multiple volumes to a container.

**Terminal**

```
PORTS          NAMES
cdeaf473fcd    busybox         "sh"           5 minutes ago    Created
dataContainer

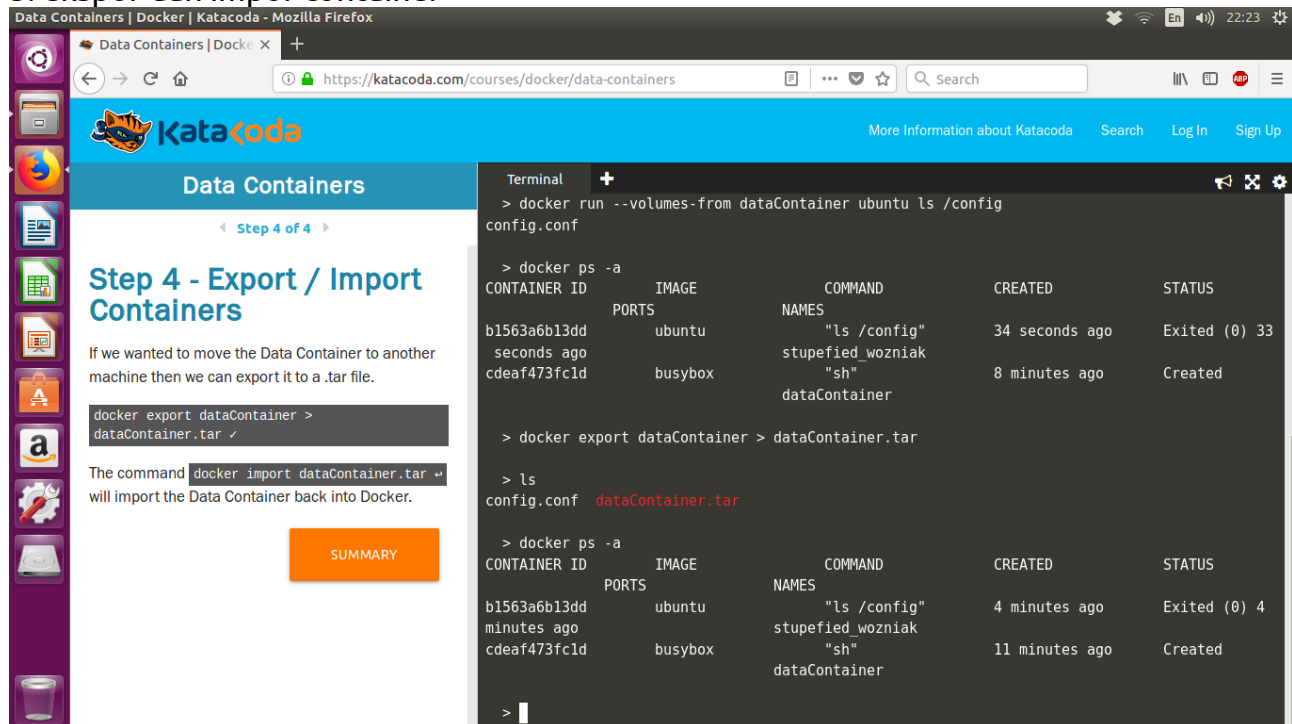
> docker cp config.conf dataContainer:/config/

> docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
busybox              latest              8ac48589692a       4 weeks ago        1.15MB
redis                latest              4760dc956b2d       7 weeks ago        107MB
ubuntu               latest              f975c5035748       8 weeks ago        112MB
alpine               latest              3fd9065eaf02       3 months ago       4.14MB

> docker run --volumes-from dataContainer ubuntu ls /config
config.conf

> docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED             STATUS
b1563a6b13dd  ubuntu    "ls /config"            34 seconds ago     Exited (0) 33
seconds ago
cdeaf473fcd    busybox    "sh"                    8 minutes ago      Created
dataContainer
```

### 3. ekspor dan impor container



**Data Containers | Docker | Katacoda - Mozilla Firefox**

**Step 4 of 4**

## Step 4 - Export / Import Containers

If we wanted to move the Data Container to another machine then we can export it to a .tar file.

```
docker export dataContainer > dataContainer.tar ✓
```

The command `docker import dataContainer.tar` will import the Data Container back into Docker.

**SUMMARY**

**Terminal**

```
> docker run --volumes-from dataContainer ubuntu ls /config
config.conf

> docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS
b1563a6b13dd       ubuntu             "ls /config"        34 seconds ago      Exited (0) 33
seconds ago
cdeaf473fc1d       busybox            "sh"                8 minutes ago       Created
dataContainer

> docker export dataContainer > dataContainer.tar

> ls
config.conf  dataContainer.tar

> docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS
b1563a6b13dd       ubuntu             "ls /config"        4 minutes ago       Exited (0) 4
minutes ago
cdeaf473fc1d       busybox            "sh"                11 minutes ago      Created
dataContainer

>
```

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