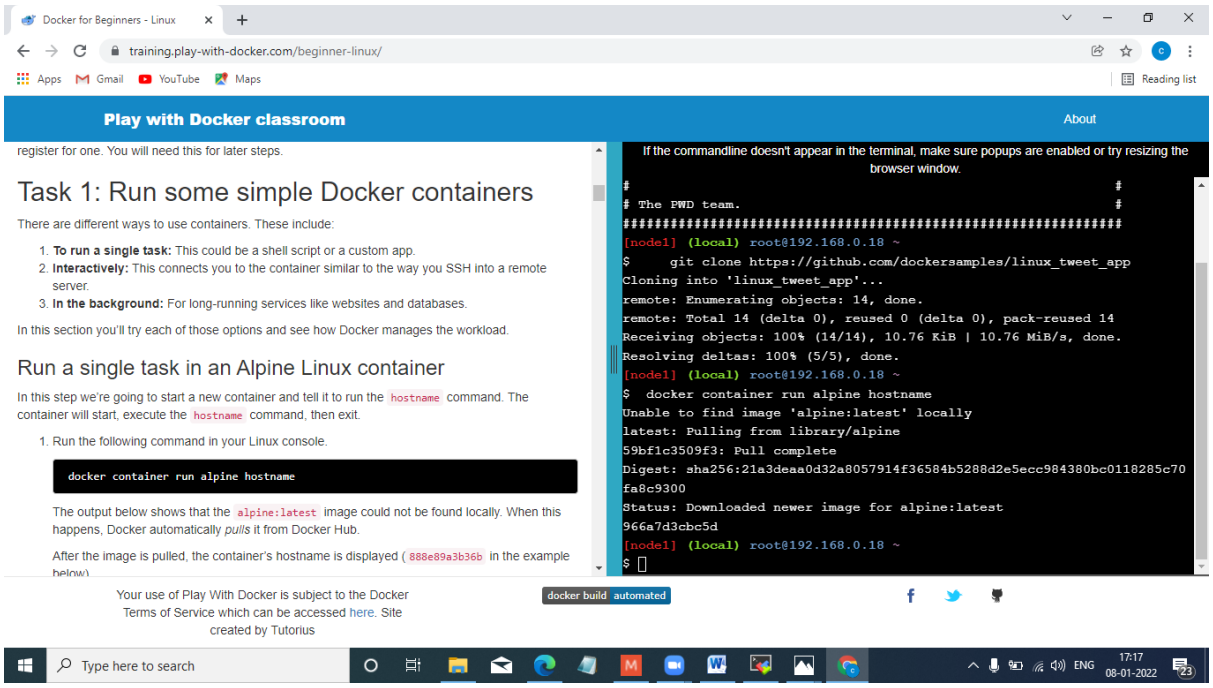
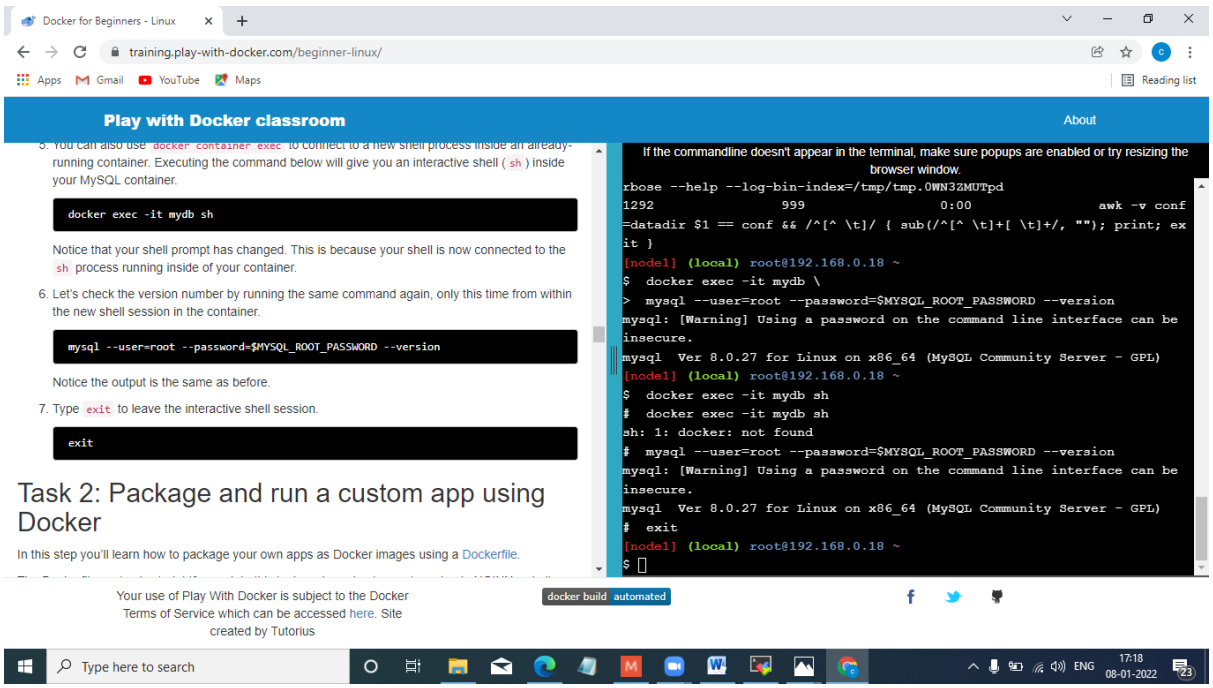
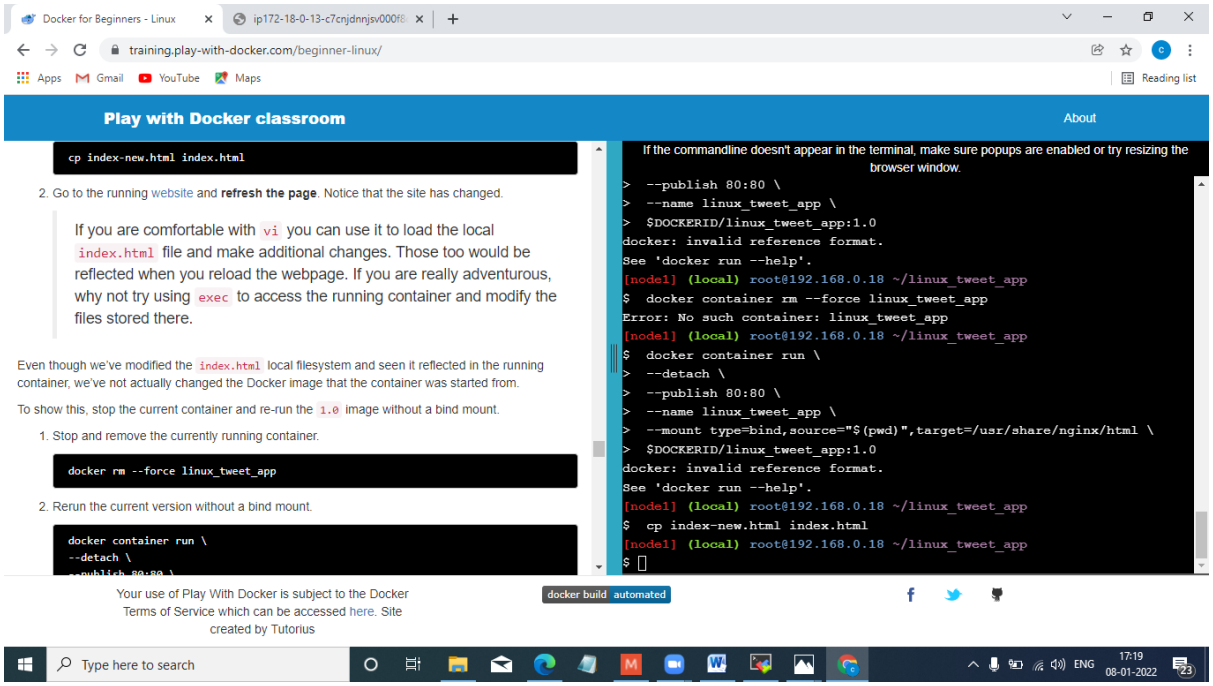
PLAY WITH DOCKER CLASSROOM






Docker for Beginners - Linux
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About
cp index-new.html index.html
2. Go to the running website and refresh the page. Notice that the site has changed.
If you are comfortable with vi you can use it to load the local index.html file and make additional changes. Those too would be reflected when you reload the webpage. If you are really adventurous, why not try using exec to access the running container and modify the files stored there.
Even though we've modified the index.html local filesystem and seen it reflected in the running container, we've not actually changed the Docker image that the container was started from.
To show this, stop the current container and re-run the 1.0 image without a bind mount.
1. Stop and remove the currently running container.
docker rm --force linux_tweet_app
2. Rerun the current version without a bind mount.
docker container run \
--detach \
If the commandline doesn't appear in the terminal, make sure popups are enabled or try resizing the browser window.
> --publish 80:80 \
> --name linux_tweet_app \
> $DOCKERID/linux_tweet_app:1.0
docker: invalid reference format.
See 'docker run --help'.
[node1] (local) root@192.168.0.18 ~/linux_tweet_app
$ docker container rm --force linux_tweet_app
Error: No such container: linux_tweet_app
[node1] (local) root@192.168.0.18 ~/linux_tweet_app
$ docker container run \
> --detach \
> --publish 80:80 \
> --name linux_tweet_app \
> --mount type=bind,source="$(pwd)",target=/usr/share/nginx/html \
> $DOCKERID/linux_tweet_app:1.0
docker: invalid reference format.
See 'docker run --help'.
[node1] (local) root@192.168.0.18 ~/linux_tweet_app
$ cp index-new.html index.html
[node1] (local) root@192.168.0.18 ~/linux_tweet_app
$
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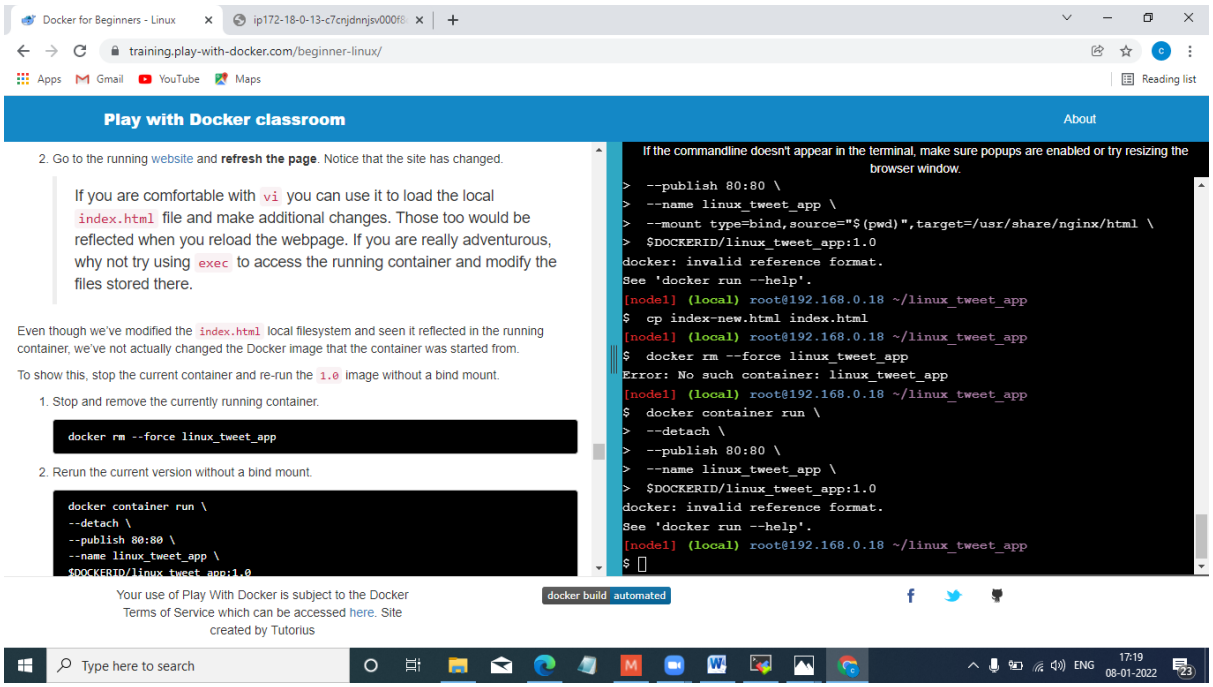
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docker: invalid reference format.
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[node1] (local) root@192.168.0.18 ~/linux_tweet_app
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[node1] (local) root@192.168.0.18 ~/linux_tweet_app
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[node1] (local) root@192.168.0.18 ~/linux_tweet_app
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[node1] (local) root@192.168.0.18 ~/linux_tweet_app
$
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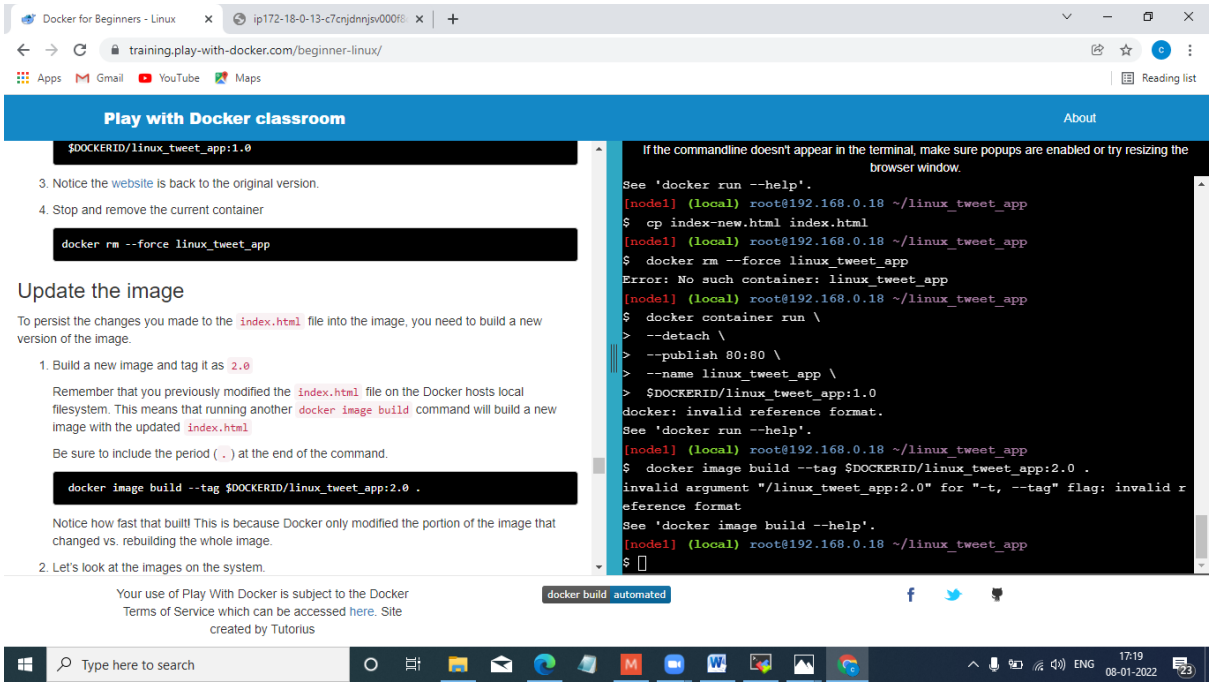
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$DOCKERID/linux_tweet_app:1.0
3. Notice the website is back to the original version.
4. Stop and remove the current container
docker rm --force linux_tweet_app
Update the image
To persist the changes you made to the index.html file into the image, you need to build a new version of the image.
1. Build a new image and tag it as 2.0
Remember that you previously modified the index.html file on the Docker hosts local filesystem. This means that running another docker image build command will build a new image with the updated index.html
Be sure to include the period (.) at the end of the command.
docker image build --tag $DOCKERID/linux_tweet_app:2.0 .
Notice how fast that built! This is because Docker only modified the portion of the image that changed vs. rebuilding the whole image.
2. Let's look at the images on the system.
If the commandline doesn't appear in the terminal, make sure popups are enabled or try resizing the browser window.
See 'docker run --help'.
[node1] (local) root@192.168.0.18 ~/linux_tweet_app
$ cp index-new.html index.html
[node1] (local) root@192.168.0.18 ~/linux_tweet_app
$ docker rm --force linux_tweet_app
Error: No such container: linux_tweet_app
[node1] (local) root@192.168.0.18 ~/linux_tweet_app
$ docker container run \
> --detach \
> --publish 80:80 \
> --name linux_tweet_app \
> $DOCKERID/linux_tweet_app:1.0
docker: invalid reference format.
See 'docker run --help'.
[node1] (local) root@192.168.0.18 ~/linux_tweet_app
$ docker image build --tag $DOCKERID/linux_tweet_app:2.0 .
invalid argument "/linux_tweet_app:2.0" for "-t, --tag" flag: invalid reference format
See 'docker image build --help'.
[node1] (local) root@192.168.0.18 ~/linux_tweet_app
$
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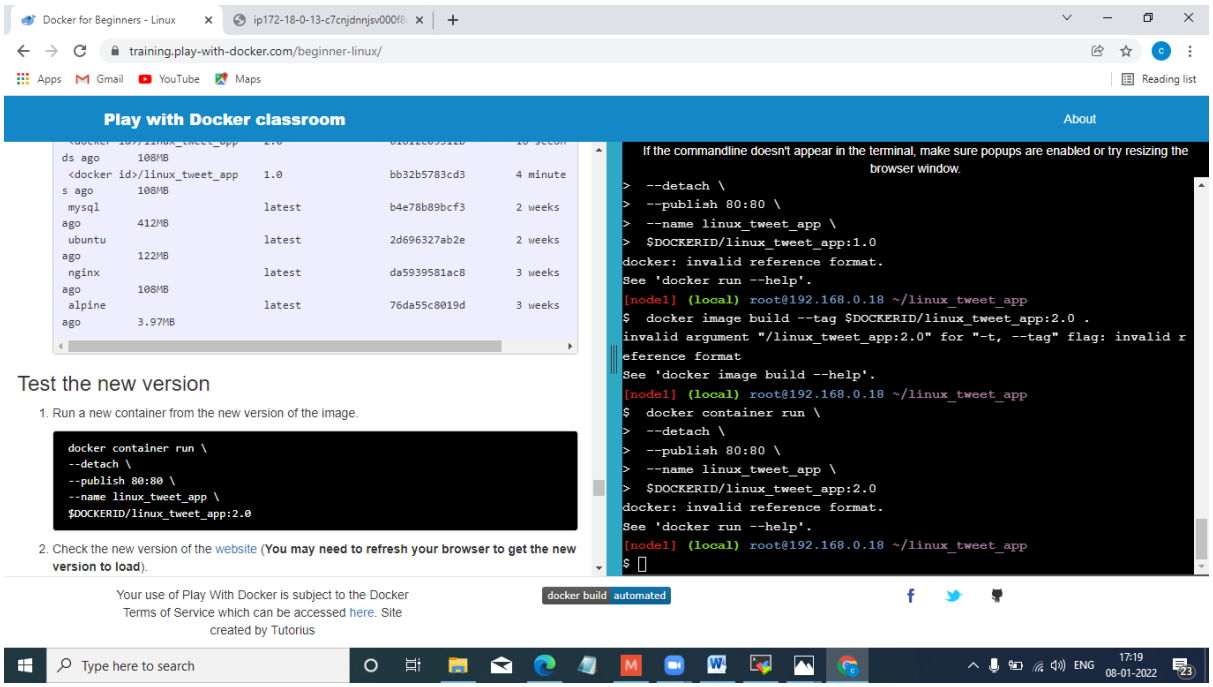
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About
ds ago 108MB
<docker id>/linux_tweet_app 1.0 bb32b5783cd3 4 minute
s ago 108MB
mysql latest b4e78b89bcf3 2 weeks
ago 412MB
ubuntu latest 2d696327ab2e 2 weeks
ago 122MB
nginx latest da5939581ac8 3 weeks
ago 108MB
alpine latest 76da55c8019d 3 weeks
ago 3.97MB
Test the new version
1. Run a new container from the new version of the image.
docker container run \
--detach \
--publish 80:80 \
--name linux_tweet_app \
$DOCKERID/linux_tweet_app:2.0
2. Check the new version of the website (You may need to refresh your browser to get the new version to load).
If the commandline doesn't appear in the terminal, make sure popups are enabled or try resizing the browser window.
> --detach \
> --publish 80:80 \
> --name linux_tweet_app \
> $DOCKERID/linux_tweet_app:1.0
docker: invalid reference format.
See 'docker run --help'.
[node1] (local) root@192.168.0.18 ~/linux_tweet_app
$ docker image build --tag $DOCKERID/linux_tweet_app:2.0 .
invalid argument "/linux_tweet_app:2.0" for "-t, --tag" flag: invalid reference format
See 'docker image build --help'.
[node1] (local) root@192.168.0.18 ~/linux_tweet_app
$ docker container run \
> --detach \
> --publish 80:80 \
> --name linux_tweet_app \
> $DOCKERID/linux_tweet_app:2.0
docker: invalid reference format.
See 'docker run --help'.
[node1] (local) root@192.168.0.18 ~/linux_tweet_app
$
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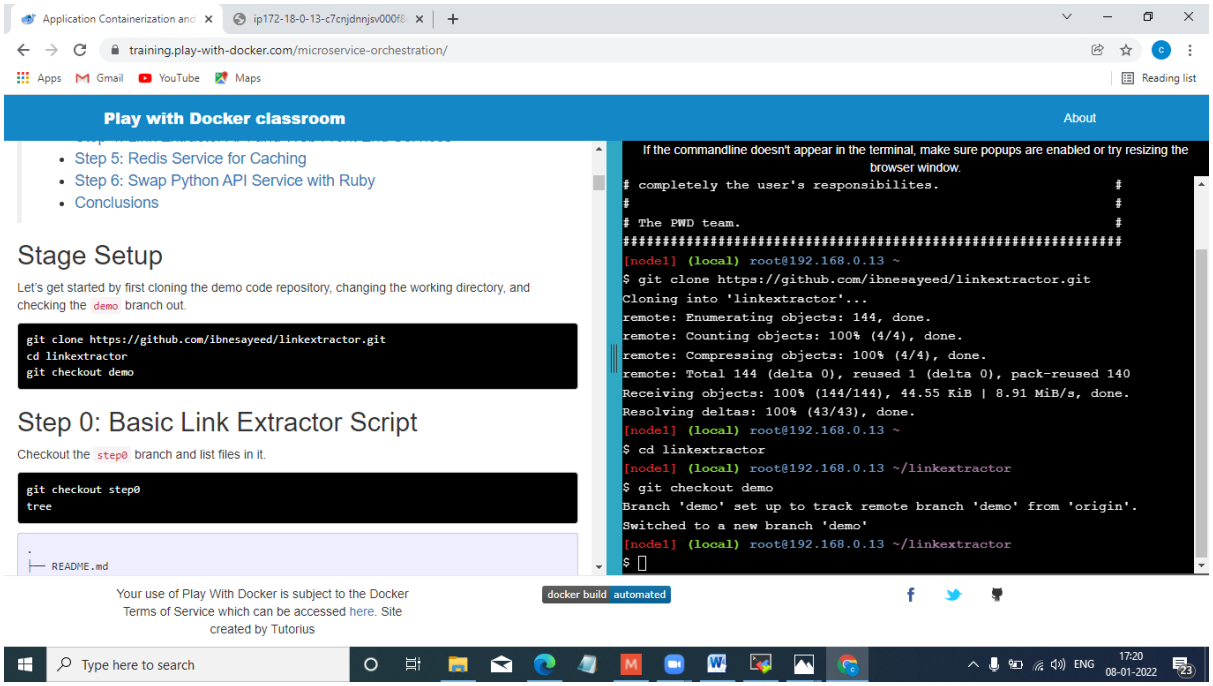
Application Containerization and
ip172-18-0-13-c7cnjdnnjsv000f8
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Step 6: Swap Python API Service with Ruby
Conclusions
Stage Setup
Let's get started by first cloning the demo code repository, changing the working directory, and checking the demo branch out.
git clone https://github.com/ibnesayeed/linkextractor.git
cd linkextractor
git checkout demo
Step 0: Basic Link Extractor Script
Checkout the step0 branch and list files in it.
git checkout step0
tree
.
└── README.md
If the commandline doesn't appear in the terminal, make sure popups are enabled or try resizing the browser window.
completely the user's responsibilites.
# #
The PWD team.
[node1] (local) root@192.168.0.13 ~
$ git clone https://github.com/ibnesayeed/linkextractor.git
Cloning into 'linkextractor'...
remote: Enumerating objects: 144, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 144 (delta 0), reused 1 (delta 0), pack-reused 140
Receiving objects: 100% (144/144), 44.55 KiB | 8.91 MiB/s, done.
Resolving deltas: 100% (43/43), done.
[node1] (local) root@192.168.0.13 ~
$ cd linkextractor
[node1] (local) root@192.168.0.13 ~/linkextractor
$ git checkout demo
Branch 'demo' set up to track remote branch 'demo' from 'origin'.
Switched to a new branch 'demo'
[node1] (local) root@192.168.0.13 ~/linkextractor
$
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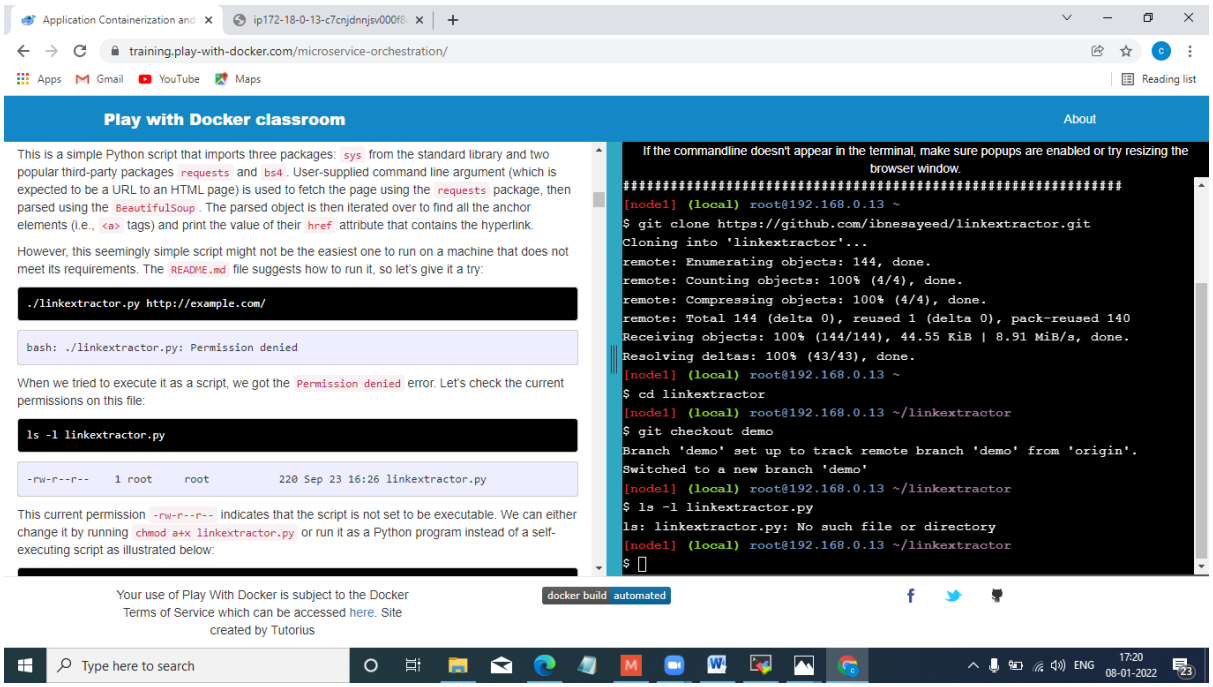
Application Containerization and
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About
This is a simple Python script that imports three packages: sys from the standard library and two popular third-party packages requests and bs4. User-supplied command line argument (which is expected to be a URL to an HTML page) is used to fetch the page using the requests package, then parsed using the BeautifulSoup. The parsed object is then iterated over to find all the anchor elements (i.e., <a> tags) and print the value of their href attribute that contains the hyperlink.
However, this seemingly simple script might not be the easiest one to run on a machine that does not meet its requirements. The README.md file suggests how to run it, so let's give it a try:
./linkextractor.py http://example.com/
bash: ./linkextractor.py: Permission denied
When we tried to execute it as a script, we got the Permission denied error. Let's check the current permissions on this file:
ls -l linkextractor.py
-rw-r--r-- 1 root root 220 Sep 23 16:26 linkextractor.py
This current permission -rw-r--r-- indicates that the script is not set to be executable. We can either change it by running chmod a+x linkextractor.py or run it as a Python program instead of a self-executing script as illustrated below:
If the commandline doesn't appear in the terminal, make sure popups are enabled or try resizing the browser window.
[node1] (local) root@192.168.0.13 ~
$ git clone https://github.com/ibnesayeed/linkextractor.git
Cloning into 'linkextractor'...
remote: Enumerating objects: 144, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 144 (delta 0), reused 1 (delta 0), pack-reused 140
Receiving objects: 100% (144/144), 44.55 KiB | 8.91 MiB/s, done.
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[node1] (local) root@192.168.0.13 ~
$ cd linkextractor
[node1] (local) root@192.168.0.13 ~/linkextractor
$ git checkout demo
Branch 'demo' set up to track remote branch 'demo' from 'origin'.
Switched to a new branch 'demo'
[node1] (local) root@192.168.0.13 ~/linkextractor
$ ls -l linkextractor.py
ls: linkextractor.py: No such file or directory
[node1] (local) root@192.168.0.13 ~/linkextractor
$
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