DevOps for Web Developers

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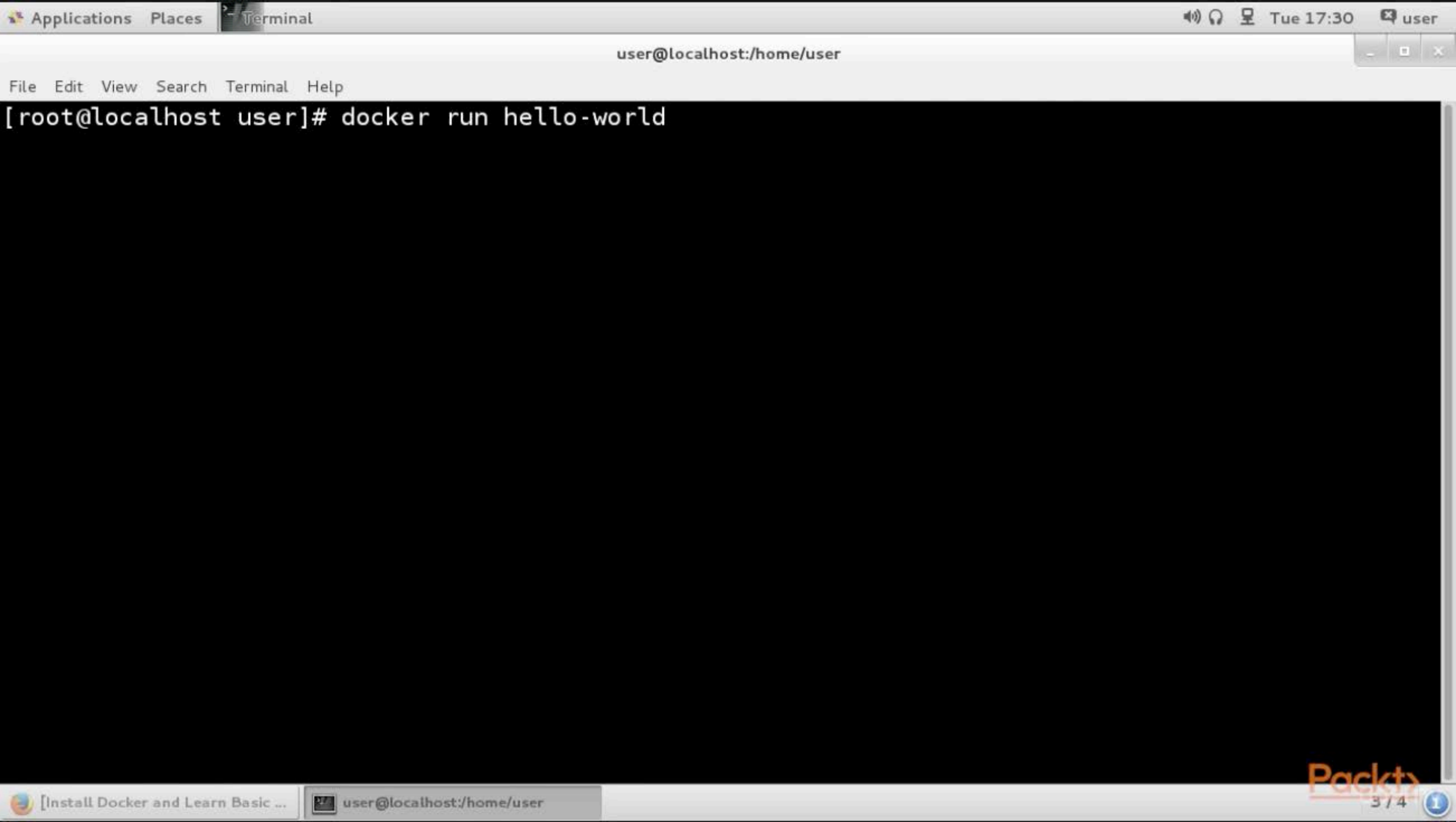
Video 5.3

Creating Your First Docker Container

In this Video, we are going to take a look at...

- Running a sample hello-world container by creating a first docker container
- Fetching hello-world imahe in the docker hub
- Creating an Ubuntu container and open its bash shell directly
- Using the docker images command to verify that the existing images are available locally


Applications
Places
Terminal
Tue 17:30
user
user@localhost:/home/user
File
Edit
View
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Terminal
Help
[root@localhost user]# docker run hello-world
[Install Docker and Learn Basic ...
user@localhost:/home/user
Packt
3 / 4

```
oring syscall.

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
 4. The Docker daemon streamed that output to the Docker client, which sent it
    to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
 $ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker Hub account:
 https://hub.docker.com

For more examples and ideas, visit:
 https://docs.docker.com/engine/userguide/

[root@localhost user]#
```

Generate Message Using Docker

- The Docker client communicates with the Docker daemon
- The Docker daemon pulls the hello-world image from Docker Hub
- The Docker daemon creates a new container from that image, which runs the executable that produces the output you are currently reading
- The Docker daemon streams that output to the Docker client, which sends it to your terminal

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[root@localhost user]# docker run -it ubuntu bash
Unable to find image 'ubuntu:latest' locally
Trying to pull repository docker.io/library/ubuntu ...
```

user@localhost:/home/user

File Edit View Search Terminal Help

```
[root@localhost user]# docker images
REPOSITORY                TAG                 IMAGE ID            CREATED             SIZE
docker.io/ubuntu          latest              f753707788c5        4 weeks ago         127.1 MB
docker.io/hello-world     latest              c54a2cc56cbb        4 months ago        1.848 kB
[root@localhost user]#
```

Next Video

Understanding the Client-Server Architecture of Docker