



From Zero to Docker

Training | 2019.05.16 | Mário Dagot, Jorge Dias

Docker is an open platform for developing, shipping, and running applications. Through the course of this training we will guide you to the most common feature and use cases of docker. Take this as an introduction and an opportunity to dive into the docker world.

AGENDA

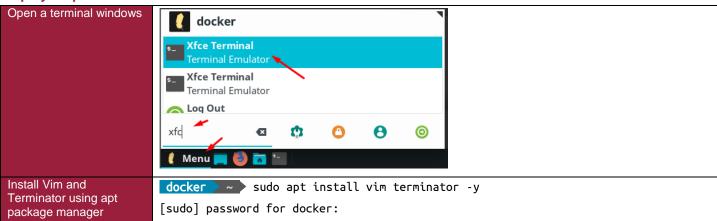
- 01 Install Vim and Terminator and VSCode
- 02 Install Docker CE for Ubuntu
- 03 Hello from Busybox
- 04 Webapp with Docker
- 05a Webapp with Docker My first Dockerfile Nginx
- 05b.1 Webapp with Docker My first Dockerfile Dotnet Core
- 05b.2 Webapp with Docker My first Dockerfile MultiStage Dotnet Core
- 06 Save and Restore and Push to Docker Hub
- 07a Webapp with database integration My first network SpringBoot
- 07b Webapp with database integration My first docker-compose SpringBoot

01 - INSTALL VIM AND TERMINATOR AND VSCODE

Objective

Install vim (Enhanced VI, a powerful linux editor), terminator (terminal application) and vs code (all-round development IDE) on a linux debian environment

Step by Step



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```
Reading package lists... Done
                       Building dependency tree
                       Reading state information... Done
                       The following packages were automatically installed and are no longer required:
                        libjavascriptcoregtk-1.0-0 libwebkitgtk-1.0-0 mypaint-brushes
                       Use 'sudo apt autoremove' to remove them.
                       The following additional packages will be installed:
                         gir1.2-keybinder-3.0 python-gi-cairo vim-runtime
                       Suggested packages:
                        ctags vim-doc vim-scripts
                      The following NEW packages will be installed:
                         gir1.2-keybinder-3.0 python-gi-cairo terminator vim vim-runtime
                       0 upgraded, 5 newly installed, 0 to remove and 0 not upgraded.
                      Need to get 6943 kB of archives.
                       After this operation, 34,3 MB of additional disk space will be used.
Install Visual Studio Code
                       docker wget -q https://packages.microsoft.com/keys/microsoft.asc -0- | sudo
using apt package
                       apt-key add -
manager
                       OK
                       docker ~ > workspace > sudo add-apt-repository "deb [arch=amd64]
                      https://packages.microsoft.com/repos/vscode stable main"
                      Hit:1 http://ppa.launchpad.net/otto-kesselgulasch/gimp/ubuntu bionic InRelease
                      Hit:2 http://archive.canonical.com/ubuntu bionic InRelease
                      Hit:3 http://ppa.launchpad.net/teejee2008/ppa/ubuntu bionic InRelease
                      Hit:4 http://us.archive.ubuntu.com/ubuntu bionic InRelease
                       Get:5 https://packages.microsoft.com/repos/vscode stable InRelease [3181 B]
                       Get:6 https://download.docker.com/linux/ubuntu bionic InRelease [64,4 kB]
                       Get:7 http://us.archive.ubuntu.com/ubuntu bionic-security InRelease [88,7 kB]
                       Get:8 https://packages.microsoft.com/repos/vscode stable/main amd64 Packages [115
                       kB]
                       Hit:9 http://repo.linuxliteos.com/linuxlite diamond InRelease
                       Get:10 http://us.archive.ubuntu.com/ubuntu bionic-updates InRelease [88,7 kB]
                       Get:11 http://us.archive.ubuntu.com/ubuntu bionic-backports InRelease [74,6 kB]
                       Get:12 http://us.archive.ubuntu.com/ubuntu bionic-security/main i386 Packages [253
                       kB]
                       Get:13 http://us.archive.ubuntu.com/ubuntu bionic-security/main amd64 Packages
                       [332 kB]
                       Get:14 http://us.archive.ubuntu.com/ubuntu bionic-security/universe amd64 Packages
                       [242 kB]
```





Get:15 http://us.archive.ubuntu.com/ubuntu bionic-security/universe i386 Packages
[238 kB]

Get:16 http://us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 Packages [597
kB]

Get:17 http://us.archive.ubuntu.com/ubuntu bionic-updates/main i386 Packages [503 kB]

Get:18 http://us.archive.ubuntu.com/ubuntu bionic-updates/universe i386 Packages
[918 kB]

Get:19 http://us.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 Packages
[930 kB]

Get:20 http://us.archive.ubuntu.com/ubuntu bionic-updates/universe Translation-en
[270 kB]

Fetched 4720 kB in 16s (293 kB/s)

Reading package lists... Done

docker ~ > workspace > sudo apt install code

Reading package lists... Done

Building dependency tree

Reading state information... Done

The following packages were automatically installed and are no longer required:

libjavascriptcoregtk-1.0-0 libwebkitgtk-1.0-0 mypaint-brushes

Use 'sudo apt autoremove' to remove them.

The following NEW packages will be installed:

code

0 upgraded, 1 newly installed, 0 to remove and 4 not upgraded.

Need to get 48,7 MB of archives.

After this operation, 200 MB of additional disk space will be used.

Get:1 https://packages.microsoft.com/repos/vscode stable/main amd64 code amd64
1.33.1-1554971066 [48,7 MB]

Fetched 48,7 MB in 33s (1454 kB/s)

Lessons learned

We learned how to install some linux applications using debian apt package manager.

Revision History

Version	Date	Author	Description
1.0	2019.05.01	Mário Dagot, Jorge Dias	Initial Version

