

Practica 1

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1.- Del apartado VI, captura personalizada del acceso a NGINX con un fichero index.html modificado.



Bienvenido a mi contenedor!!

Aqui podemos ver claramente que esta editado

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.

2.- Del apartado IX, creación interactiva de un contenedor docker.

```
root@cesar-TM1701: /home/cesar
Archivo  Editar  Ver  Buscar  Terminal  Ayuda
root@cesar-TM1701:/home/cesar# docker run -i -t ubuntu bash
root@824d26f21802:/# apt update
Get:1 http://archive.ubuntu.com/ubuntu focal InRelease [265 kB]
Get:2 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Get:3 http://archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:4 http://archive.ubuntu.com/ubuntu focal-backports InRelease [101 kB]
Get:5 http://archive.ubuntu.com/ubuntu focal/universe amd64 Packages [11.3 MB]
Get:6 http://security.ubuntu.com/ubuntu focal-security/universe amd64 Packages [791 kB]
Get:7 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 Packages [543 kB]
Get:8 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [1092 kB]
Get:9 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 Packages [30.1 kB]
Get:10 http://archive.ubuntu.com/ubuntu focal/multiverse amd64 Packages [177 kB]
Get:11 http://archive.ubuntu.com/ubuntu focal/main amd64 Packages [1275 kB]
Get:12 http://archive.ubuntu.com/ubuntu focal/restricted amd64 Packages [33.4 kB]
Get:13 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [1537 kB]
Get:14 http://archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 Packages [33.3 kB]
Get:15 http://archive.ubuntu.com/ubuntu focal-updates/universe amd64 Packages [1071 kB]
Get:16 http://archive.ubuntu.com/ubuntu focal-updates/restricted amd64 Packages [590 kB]
Get:17 http://archive.ubuntu.com/ubuntu focal-backports/main amd64 Packages [2668 B]
Get:18 http://archive.ubuntu.com/ubuntu focal-backports/universe amd64 Packages [6310 B]
Fetched 19.1 MB in 5s (3793 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
5 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@824d26f21802:/# apt upgrade
Reading package lists... Done
Building dependency tree
Reading state information... Done
Calculating upgrade... Done
The following packages will be upgraded:
  libgcrypt20 libprocps8 libsystemd0 libudev1 procps
5 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 1033 kB of archives.
After this operation, 2048 B of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libsystemd0 amd64 245.4-4ubuntu3.13 [270 kB]
Get:2 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libgcrypt20 amd64 1.8.5-5ubuntu1.1 [420 kB]
Get:3 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libudev1 amd64 245.4-4ubuntu3.13 [77.6 kB]
Get:4 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libprocps8 amd64 2:3.3.16-1ubuntu2.3 [33.0 kB]
Get:5 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 procps amd64 2:3.3.16-1ubuntu2.3 [233 kB]
Fetched 1033 kB in 1s (847 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
(Reading database ... 4127 files and directories currently installed.)
Preparing to unpack .../libsystemd0_245.4-4ubuntu3.13_amd64.deb ...
Unpacking libsystemd0:amd64 (245.4-4ubuntu3.13) over (245.4-4ubuntu3.11) ...
Setting up libsystemd0:amd64 (245.4-4ubuntu3.13) ...
(Reading database ... 4127 files and directories currently installed.)
Preparing to unpack .../libgcrypt20_1.8.5-5ubuntu1.1_amd64.deb ...
Unpacking libgcrypt20:amd64 (1.8.5-5ubuntu1.1) over (1.8.5-5ubuntu1) ...
Setting up libgcrypt20:amd64 (1.8.5-5ubuntu1.1) ...
(Reading database ... 4127 files and directories currently installed.)
Preparing to unpack .../libudev1_245.4-4ubuntu3.13_amd64.deb ...
Unpacking libudev1:amd64 (245.4-4ubuntu3.13) over (245.4-4ubuntu3.11) ...
Setting up libudev1:amd64 (245.4-4ubuntu3.13) ...
(Reading database ... 4127 files and directories currently installed.)
Preparing to unpack .../libprocps8_2:3.3.16-1ubuntu2.3_amd64.deb ...
Unpacking libprocps8:amd64 (2:3.3.16-1ubuntu2.3) over (2:3.3.16-1ubuntu2.2) ...
Preparing to unpack .../procps_2:3.3.16-1ubuntu2.3_amd64.deb ...
Unpacking procps (2:3.3.16-1ubuntu2.3) over (2:3.3.16-1ubuntu2.2) ...
Setting up libprocps8:amd64 (2:3.3.16-1ubuntu2.3) ...
Setting up procps (2:3.3.16-1ubuntu2.3) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
root@824d26f21802:/# apt install nginx
Reading package lists... Done
Building dependency tree
Reading state information... Done
```

```

debconf: falling back to frontend: Readline
debconf: unable to initialize frontend: Readline
debconf: (Can't locate Term/ReadLine.pm in @INC (you may need to install the Term::ReadLine module) (@INC contains: /etc/perl /usr/local/lib/x86_64-linux-gnu/perl/5.30.0 /usr/local/share
usr/lib/x86_64-linux-gnu/perl5/5.30 /usr/share/perl5 /usr/lib/x86_64-linux-gnu/perl/5.30 /usr/share/perl/5.30 /usr/local/lib/site_perl /usr/lib/x86_64-linux-gnu/perl-base) at /usr/share/
FrontEnd/Readline.pm line 7.)
debconf: falling back to frontend: Teletype
Setting up nginx-common (1.18.0-0ubuntu1.2) ...
debconf: unable to initialize frontend: Dialog
debconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line 76.)
debconf: falling back to frontend: Readline
debconf: unable to initialize frontend: Readline
debconf: (Can't locate Term/ReadLine.pm in @INC (you may need to install the Term::ReadLine module) (@INC contains: /etc/perl /usr/local/lib/x86_64-linux-gnu/perl/5.30.0 /usr/local/share
usr/lib/x86_64-linux-gnu/perl5/5.30 /usr/share/perl5 /usr/lib/x86_64-linux-gnu/perl/5.30 /usr/share/perl/5.30 /usr/local/lib/site_perl /usr/lib/x86_64-linux-gnu/perl-base) at /usr/share/
FrontEnd/Readline.pm line 7.)
debconf: falling back to frontend: Teletype
Setting up libatm1:amd64 (1:2.5.1-4) ...
Setting up libjbig0:amd64 (2.1-3.1build1) ...
Setting up libcapi2:amd64 (1:2.32-1) ...
Setting up tzdata (2021a-0ubuntu0.20.04) ...
debconf: unable to initialize frontend: Dialog
debconf: (No usable dialog-like program is installed, so the dialog based frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line 76.)
debconf: falling back to frontend: Readline
debconf: unable to initialize frontend: Readline
debconf: (Can't locate Term/ReadLine.pm in @INC (you may need to install the Term::ReadLine module) (@INC contains: /etc/perl /usr/local/lib/x86_64-linux-gnu/perl/5.30.0 /usr/local/share
usr/lib/x86_64-linux-gnu/perl5/5.30 /usr/share/perl5 /usr/lib/x86_64-linux-gnu/perl/5.30 /usr/share/perl/5.30 /usr/local/lib/site_perl /usr/lib/x86_64-linux-gnu/perl-base) at /usr/share/
FrontEnd/Readline.pm line 7.)
debconf: falling back to frontend: Teletype
Configuring tzdata
-----

Please select the geographic area in which you live. Subsequent configuration questions will narrow this down by presenting a list of cities, representing the time zones in which they ar

1. Africa 2. America 3. Antarctica 4. Australia 5. Arctic 6. Asia 7. Atlantic 8. Europe 9. Indian 10. Pacific 11. SystemV 12. US 13. Etc
Geographic area: 8

Please select the city or region corresponding to your time zone.

1. Amsterdam 7. Berlin 13. Chisinau 19. Isle of Man 25. Lisbon 31. Mariehamn 37. Paris 43. San Marino 49. Stockholm 55. Vaduz 61. Zagreb
2. Andorra 8. Bratislava 14. Copenhagen 20. Istanbul 26. Ljubljana 32. Minsk 38. Podgorica 44. Sarajevo 50. Tallinn 56. Vatican 62. Zaporozhye
3. Astrakhan 9. Brussels 15. Dublin 21. Jersey 27. London 33. Monaco 39. Prague 45. Saratov 51. Tirane 57. Vienna 63. Zurich
4. Athens 10. Bucharest 16. Gibraltar 22. Kaliningrad 28. Luxembourg 34. Moscow 40. Riga 46. Simferopol 52. Tiraspol 58. Vilnius
5. Belfast 11. Budapest 17. Guernsey 23. Kiev 29. Madrid 35. Nicosia 41. Rome 47. Skopje 53. Ulyanovsk 59. Volgograd
6. Belgrade 12. Busingen 18. Helsinki 24. Kirov 30. Malta 36. Oslo 42. Samara 48. Sofia 54. Uzhgorod 60. Warsaw

Time zone: 29

```

```

Setting up lvm2-misc (2.03.16-1ubuntu1) ...
Setting up nginx-core (1.18.0-0ubuntu1.2) ...
invoke-rc.d: could not determine current runlevel
invoke-rc.d: policy-rc.d denied execution of start.
Setting up nginx (1.18.0-0ubuntu1.2) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
root@824d26f21802:/# exit
exit
root@cesar-TM1701:/home/cesar# docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                               NAMES
824d26f21802   ubuntu   "bash"                   2 minutes ago   Exited (0)    19 seconds ago                       inspiring_wright
909f502a90b3   ubuntu   "bash"                   3 minutes ago   Exited (0)    2 minutes ago                       gracious_gauss
cace654f368b   busybox   "sh"                     6 minutes ago   Up 5 minutes                                     container1
e8a60b53b832   nginx    "/docker-entrypoint. ..." 3 hours ago    Up 7 minutes    0.0.0.0:8081->80/tcp, :::8081->80/tcp, 0.0.0.0:8444->443/tcp, :::8444->443/tcp  nginx2
root@cesar-TM1701:/home/cesar# docker commit 824d26f21802 ubuntu personalizado
sha256:fd7239b6608d94f51fdab5d07c0834496c135c6c9122bfdc8a0236e55c0a2fc
root@cesar-TM1701:/home/cesar# docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
ubuntu         personalizado   latest        fd7239b6608d    6 seconds ago   165MB
busybox        latest       16ea82ae7c65   9 days ago     1.24MB
nginx          latest       ad4c705f24d3   2 weeks ago    133MB
ubuntu         latest       fb52e22af1b0   3 weeks ago    72.8MB

```

```

root@cesar-TM1701:/home/cesar# docker save -o /home/cesar/Escritorio/CPD/Práctica/Practica\ 1/images/ubuntu_personalizado ubuntu_personalizado

```

```

root@cesar-TM1701:/home/cesar# ls /home/cesar/Escritorio/CPD/Práctica/Practica\ 1/images/
ubuntu_personalizado

```

3.- Del anexo I, acceso por SSHFS.

```

root@cesar-TM1701:/home/cesar# yum -y install epel-release
Loaded plugins: fastestmirror, ovl
Determining fastest mirrors
 * base: mirror.centos.org
 * extras: mirrors.supportx.net
 * updates: mirror.centos.org
base
docker-ce-stable
extras
kubernetes/signature
Retrieving key from https://packages.cloud.google.com/yum/doc/yum-key.gpg
Importing GPG key 0x307EA071:
  Userid : "Signature Automatic Signing Key (cloud-rapture-signing-key-2021-03-01-08_01_09.pub)"
  Fingerprint: 7f92 e9b5 3109 3bef 5a3c 2d38 feea 9169 307e a071
  From      : https://packages.cloud.google.com/yum/doc/yum-key.gpg
Retrieving key from https://packages.cloud.google.com/yum/doc/rpm-package-key.gpg
kubernetes/signature
updates
1/7: base/7/x86_64/group.gz
2/7: extras/7/x86_64/primary.db
3/7: base/7/x86_64/primary.db
4/7: docker-ce-stable/7/x86_64/updateinfo
5/7: docker-ce-stable/7/x86_64/primary.db
6/7: kubernetes/primary
7/7: updates/7/x86_64/primary.db
kubernetes
Resolving Dependencies
--> Running transaction check
--> Package epel-release.noarch 0:7-11 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package                               Arch              Version              Repository           Size
Installing:
epel-release                          noarch            7-11                  extras                15 k
Transaction Summary
Install 1 Package
Total download size: 15 k
Installed size: 24 k
Downloading packages:
epel-release-7-11.noarch.rpm
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : epel-release-7-11.noarch
Verifying : epel-release-7-11.noarch
Installed:
epel-release.noarch 0:7-11

```

```

Complete!
node1 ~]$ yum clean all
Loaded plugins: fastestmirror, ovl
Cleaning repos: base docker-ce-stable epel extras kubernetcs updates
Cleaning up list of fastest mirrors
node1 ~]$ yum -y install fuse-sshfs
Loaded plugins: fastestmirror, ovl
Determining fastest mirrors
epel/x86_64/metalink | 30 kB 00:00:00
* base: mirror.kernel.org
* epel: mirror.x86.net
* extras: mirror.proserve.nl
* updates: centos6.centos.org
base
docker-ce-stable
epel
extras
kubernetcs/signature
kubernetcs/signature
updates
1/10: base//x86_64/group_gz | 3.6 kB 00:00:00
2/10: base//x86_64/primary_db | 3.5 kB 00:00:00
3/10: docker-ce-stable//x86_64/updateinfo | 4.7 kB 00:00:00
4/10: extras//x86_64/primary_db | 2.9 kB 00:00:00
5/10: epel/x86_64/group_gz | 2.9 kB 00:00:00
6/10: epel/x86_64/primary_db | 1.4 kB 00:00:00
7/10: docker-ce-stable//x86_64/primary_db | 6.1 MB 00:00:00
8/10: epel/x86_64/updateinfo | 25 B 00:00:00
9/10: kubernetcs/primary | 245 kB 00:00:00
10/10: updates//x86_64/primary_db | 96 kB 00:00:00
kubernetcs | 7.0 MB 00:00:00
Resolving Dependencies
--> Running transaction check
--> Package fuse-sshfs.x86_64 0:2.10-1.el7 will be installed
--> Processing Dependency: fuse >= 2.2 for package: fuse-sshfs-2.10-1.el7.x86_64
--> Processing Dependency: libfuse.so.2(FUSE 2.2)(64bit) for package: fuse-sshfs-2.10-1.el7.x86_64
--> Processing Dependency: libfuse.so.2(FUSE 2.5)(64bit) for package: fuse-sshfs-2.10-1.el7.x86_64
--> Processing Dependency: libfuse.so.2(FUSE 2.6)(64bit) for package: fuse-sshfs-2.10-1.el7.x86_64
--> Processing Dependency: libfuse.so.2(FUSE 2.7)(64bit) for package: fuse-sshfs-2.10-1.el7.x86_64
--> Running transaction check
--> Package fuse.x86_64 0:2.9.2-11.el7 will be installed
--> Processing Dependency: which for package: fuse-2.9.2-11.el7.x86_64
--> Package fuse-libs.x86_64 0:2.9.2-11.el7 will be installed
--> Running transaction check
--> Package which.x86_64 0:2.20-7.el7 will be installed
--> Finished Dependency Resolution
Dependencies Resolved

=====
Package Arch Version Repository Size
=====
Installing:
fuse-sshfs x86_64 2.10-1.el7 epel 50 k
Installing for dependencies:
fuse x86_64 2.9.2-11.el7 base 80 k
fuse-libs x86_64 2.9.2-11.el7 base 93 k
which x86_64 2.20-7.el7 base 41 k
=====

Transaction Summary
Install 1 Package (+3 Dependent packages)

Total download size: 270 k
Installed size: 689 k
Downloading packages:
1/4: fuse-libs-2.9.2-11.el7.x86_64.rpm | 93 kB 00:00:00
2/4: fuse-2.9.2-11.el7.x86_64.rpm | 86 kB 00:00:00
Warning: /usr/cache/yum/x86_64/epel/packages/fuse-sshfs-2.10-1.el7.x86_64.rpm: Header V3 RSA/SHA256 Signature, key ID 352c64e5: NOKEY
Public key for fuse-sshfs-2.10-1.el7.x86_64.rpm is not installed
3/4: fuse-sshfs-2.10-1.el7.x86_64.rpm | 50 kB 00:00:00
4/4: which-2.20-7.el7.x86_64.rpm | 41 kB 00:00:00
-----
Total 1.5 MB/s | 270 kB 00:00:00
Retrieving key from file:///etc/pki/rpm-gpg/RPM-GPG-KEY-EPEL-7
Importing GPG key 0x352C64E5:
Userid : "Fedora EPEL (7) <epel@fedoraproject.org>"
Fingerprint: 91e9 7d7c 4a5e 96f1 7f3e 888f 6a2f aea2 352c 64e5
Package : epel-release-7-11.noarch (Extras)
From : /etc/pki/rpm-gpg/RPM-GPG-KEY-EPEL-7
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : fuse-libs-2.9.2-11.el7.x86_64 1/4
Installing : which-2.20-7.el7.x86_64 2/4
InstallInfo: No such file or directory for /usr/share/info/which.info.gz
Installing : fuse-2.9.2-11.el7.x86_64 3/4
Installing : fuse-sshfs-2.10-1.el7.x86_64 4/4
Verifying : which-2.20-7.el7.x86_64 1/4
Verifying : fuse-sshfs-2.10-1.el7.x86_64 2/4
Verifying : fuse-libs-2.9.2-11.el7.x86_64 3/4
Verifying : fuse-2.9.2-11.el7.x86_64 4/4
Installed:
fuse-sshfs.x86_64 0:2.10-1.el7
Dependency Installed:
fuse.x86_64 0:2.9.2-11.el7 fuse-libs.x86_64 0:2.9.2-11.el7 which.x86_64 0:2.20-7.el7
Complete!
node1 ~]$

```

```

[node1 ~]$ mkdir mi_turing
[node1 ~]$ sshfs cesarmunoz@turing.ugr.es:. mi_turing
The authenticity of host 'turing.ugr.es (150.214.191.90)' can't be established.
ECDSA key fingerprint is SHA256:10LJWk9QLMRw+HrJisQJUK5FIZ1rs2mkLYmX8YmBwaE.
ECDSA key fingerprint is MD5:77:bd:89:ef:19:65:46:0b:23:81:bc:d5:5b:31:de.
Are you sure you want to continue connecting (yes/no)? yes
cesarmunoz@turing.ugr.es's password:
[node1 ~]$ ls
anaconda-ks.cfg mi_turing
[node1 ~]$ cd mi_turing/
[node1 mi_turing]$ ls
Home.zip S0 script

```

```

[node1 ~]$ umount mi_turing

```