UNIVERSIDAD NACIONAL DE SAN AGUSTÍN

FACULTAD DE INGENIERÍA DE PRODUCCIÓN Y SERVICIOS

ESCUELA PROFESIONAL DE INGENIERÍA DE SISTEMAS



Tema: Docker

Curso: Programación web 2 – laboratorio G

Alumno:

Miguel Angel Alvarez Choque

Semestre: A - 2024

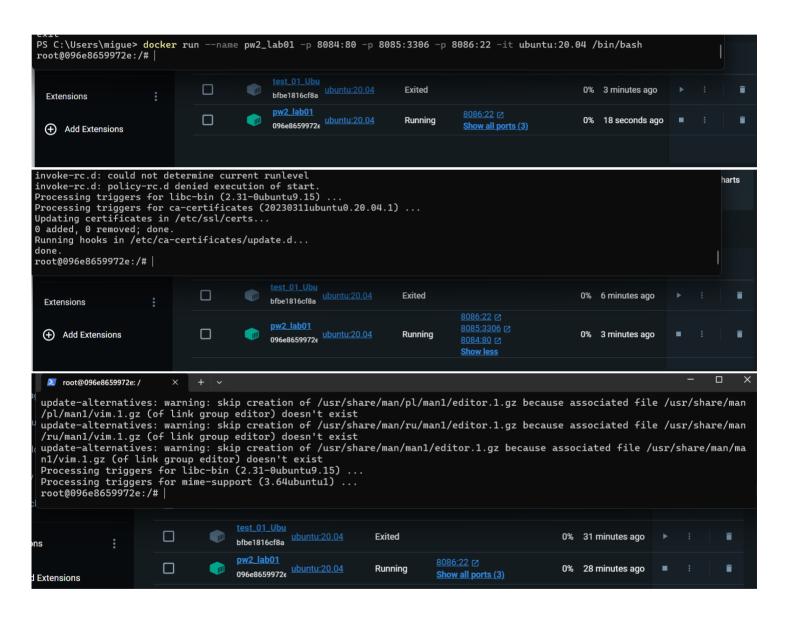
Arequipa – Perú

2024

Actividad:

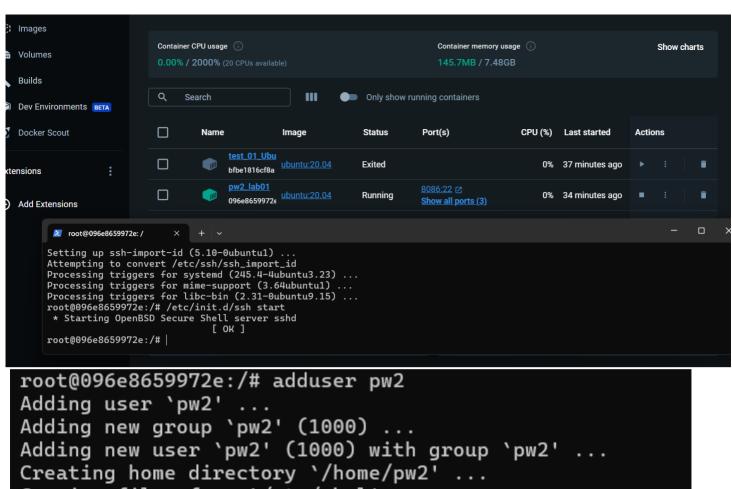
Procesos realizados:

Instalación de componentes:



```
root@096e8659972e:/# apt-get install libapache2-mod-php7.4
 Volu Reading package lists... Done
        Building dependency tree
Build Reading state information... Done
The following additional packages will be installed:
libargon2-1 libbsd0 libedit2 libsodium23 php-common php7.4-cli php7.4-common php7.4-json php7.4-opcache
Dev
            php7.4-readline psmisc ucf
        Suggested packages:
Doc
                                                                             bfbe1816cf8a ubuntu:20.04
                                                                                                                               Exited
                                                                                                                                                                                                  0% 33 minutes ago
                                                                                                                                                                                                                                                            î
nsions
                                                                              pw2 lab01
                                                                              096e8659972ε ubuntu:20.04
                                                    Running
                                                                                                                                                                                                 0% 30 minutes ago
                                                                                                                                                                                                                                    î
                                                                                                                                                     Show all ports (3)
Add Extensions
rocessing triggers for pnp/.4-cti (/.4.3-4uduntuz.22) ...
Processing triggers for libapache2-mod-php7.4 (7.4.3-4ubuntu2.22) ...
root@096e8659972e:/# /etc/init.d apache2 restart
pash: /etc/init.d: Is a directory
root@096e8659972e:/# vim /var/www/html/hola.php
root@096e8659972e:/# apt-cache search php7.4
ibapache2-mod-php7.4 - server-side, HTML-embedded scripting language (Apache 2 module).
php7.4-cgi - server-side, HTML-embedded scripting language (CGI binary)
php7.4-cli - command-line interpreter for the PHP scripting language
hp7.4-common - documentation, examples and common module for PHP
hp7.4-curl - CURL module for PHP
ohp7.4-dev - Files for PHP7.4 module development
hp7.4-gd - GD module for PHP
ohp7.4-gmp - GMP module for PHP
hp7.4-json - JSON module for PHP
hp7.4-ldap - LDAP module for PHP
hp7.4-mysql - MySQL module for PHP
hp7.4-odbc - ODBC module for PHP
hp7.4-opcache - Zend OpCache module for PHP
php7.4-pgsql - PostgreSQL module for PHP
php7.4-pspell - pspell module for PHP
php7.4-readline - readline module for PHP
hp7.4-snmp - SNMP module for PHP
hp7.4-sqlite3 - SQLite3 module for PHP
hp7.4-tidy - tidy module for PHP
php7.4-xml - DOM, SimpleXML, XML, and XSL module for PHP
 root@096e8659972e:/# apt-get install openssh-server
Reading package lists... Done
 Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
dbus distro-info-data dmsetup girl.2-glib-2.0 libapparmor1 libcap2 libcbor0.6 libcryptsetup12 libdbus-1-3 libdevmapper1.02.1 libfido2-1
libgirepository-1.0-1 libglib2.0-0 libglib2.0-data libip4tc2 libjson-c4 libkmod2 libnss-systemd libpam-systemd libpython3-stdlib libwrap0 libx11-6
libx11-data libxau6 libxcb1 libxdmcp6 libxext6 libxmuu1 lsb-release ncurses-term networkd-dispatcher openssh-client openssh-sftp-server python3
python3-certifi python3-chardet python3-dbus python3-distro python3-gi python3-dina python3-minimal python3-pkg-resources python3-requests python3-minimal shared-mime-info ssh-import-id systemd systemd-sysv systemd-timesyncd wget xauth xdg-user-dirs
python3-certifi python3-chardet python3-dbus gython3-dbus python3-gi python3-lona python3-minimat python3-minimal shared-mime-info ssh-import-id systemd systemd-sysv systemd-timesyncd wget xauth xdg-user-dirs Suggested packages:

default-dbus-session-bus | dbus-session-bus iw | wireless-tools keychain libpam-ssh monkeysphere ssh-askpass molly-guard ufw python3-doc python3-dbus-dbus python3-setuptools python3-cryptography python3-openssl python3-socks python3.8-venv python3-8-venv python-dbus-doc python3-dbus-dbg python3-setuptools python3-cryptography python3-openssl python3-socks python3.8-venv python3.8-venv python3 libing with python3-setuptools python3-setuptools python3-setuptools python3-setuptools python3-setuptools python3-setuptools python3-setuptools python3-dbus-dbus distro-info-data dmsetup girl.2-glib-2.0 libappam-parmorl libcap2 libcbor0.6 libcryptsetup12 libdbus-1-3 libdewmapper1.02.1 libfido2-1 libgiiropository-1.0-1 libgiiropo-0-1 libgiiropository-1.0-1 lib
```



```
Adding user `pw2' ...

Adding new group `pw2' (1000) ...

Adding new user `pw2' (1000) with group `pw2' ...

Creating home directory `/home/pw2' ...

Copying files from `/etc/skel' ...

New password:

Retype new password:

passwd: password updated successfully

Changing the user information for pw2

Enter the new value, or press ENTER for the default

Full Name []: pw2

Room Number []:

Work Phone []:

Home Phone []:

Other []:

Is the information correct? [Y/n] y

root@096e8659972e:/#
```

```
root@096e8659972e:/# chown -R pw2:www-data /var/www/html/root@096e8659972e:/# |
```

```
root@096e8659972e:/# apt-get install mariadb-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
galera-3 gawk iproute2 libaio1 libatm1 libcap2-bin libcgi-fast-perl libcgi-pm-perl libconfig-inifiles-perl libdbd-mysql-perl libdbi-perl libelf1
libencode-locale-perl libfcgi-perl libhtml-parser-perl libhtml-tagset-perl libhtml-template-perl libhttp-date-perl libhttp-message-perl libio-html-perl
liblwp-mediatypes-perl libmnl0 libmpfr6 libmysqlclient21 libpam-cap libpopt0 libreadline5 libsigsegv2 libsnappy1v5 libterm-readkey-perl libtimedate-perl
liburi-perl libxtables12 lsof mariadb-client-10.3 mariadb-client-core-10.3 mariadb-common mariadb-server-10.3 mariadb-server-core-10.3 mysql-common
Suggested packages:
Suggested packages:
gawk-doc iproute2-doc libclone-perl libmldbm-perl libnet-daemon-perl libsql-statement-perl libdata-dump-perl libipc-sharedcache-perl libwww-perl mailx mariadb-test netcat-openbsd tinyca
mariadb-test netcat-openbsd tinyca
The following NEW packages will be installed:
galera-3 gawk iproute2 libaio1 libatm1 libcap2-bin libcgi-fast-perl libcgi-pm-perl libconfig-inifiles-perl libdbd-mysql-perl libdbi-perl libelf1
libencode-locale-perl libfcgi-perl libhtm1-perl libtm1-tagset-perl libhtm1-template-perl libhttp-date-perl libhttp-message-perl libti-htm1-perl
liblwp-mediatypes-perl libmn00 libmpfr6 libmysqlclient21 libtm2-app libpcyt00 libraeddine5 libsigsegv2 libsnappy1v5 libterm-readkey-perl libtimedate-perl
liburi-perl libxtables12 lsof mariadb-client-10.3 mariadb-client-core-10.3 mariadb-common mariadb-server mariadb-server-10.3 mariadb-server-core-10.3
   mysal-common rsync socat
 root@096e8659972e:/# mysql> CREATE USER pw2@localhost IDENTIFIED BY \342\200\23012345678\342\200\231;
 root@096e8659972e:/# myslq> GRANT ALL PRIVILEGES ON menagerie.* TO pw2@localhost;
 bash: myslq: command not found
 root@096e8659972e:/# mysql> FLUSH PRIVILEGES;
 ERROR 1049 (42000): Unknown database 'PRIVILEGES'
 root@096e8659972e:/#
root@096e8659972e:/# a2enmod cgid
Enabling module cgid.
To activate the new configuration, you need to run:
    service apache2 restart
 root@096e8659972e:/# isb_release -d hostname -i:hostname
 bash: isb_release: command not found
 root@096e8659972e:/# apt-get update:apt-get install perl apache2 -y
E: Invalid operation update:apt-get
root@096e8659972e:/# apt-get install libapache2-mod-fcgid
 Reading package lists... Done
 Building dependency tree
 Reading state information... Done
 The following NEW packages will be installed:
    libapache2-mod-fcgid
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 64.9 kB of archives.
After this operation, 242 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu focal/universe amd64 libapache2-mod-fcgid amd64 1:2.3.9-4 [64.9 kB]
Fetched 64.9 kB in 1s (48.3 kB/s)
debconf: delaying package configuration, since apt-utils is not installed Selecting previously unselected package libapache2-mod-fcgid. (Reading database ... 18722 files and directories currently installed.)
 Preparing to unpack .../libapache2-mod-fcgid_1%3a2.3.9-4_amd64.deb ...
Unpacking libapache2-mod-fcgid (1:2.3.9-4) ...
Setting up libapache2-mod-fcgid (1:2.3.9-4) ...
 apache2_invoke: Enable module fcgid
 invoke-rc.d: could not determine current runlevel
invoke-rc.d: policy-rc.d denied execution of restart.
        Acciones en el contenedor:
```

```
Acciones en el contenedor:

PS C:\Users\migue> docker pull httpd:2.4
2.4: Pulling from library/httpd
b0a0cf830b12: Pull complete
851c52adaa9b: Pull complete
4f4fb700ef54: Pull complete
943a2b3cf551: Pull complete
943a2b3cf551: Pull complete
ea83e81966d6: Pull complete
Digest: sha256:36c8c79f900108f0f09fd4148ad35ade57cba0dc19d13f3d15be24ce94e6a639
Status: Downloaded newer image for httpd:2.4
docker.io/library/httpd:2.4

What's Next?

View a summary of image vulnerabilities and recommendations → docker scout quickview httpd:2.4
PS C:\Users\migue> |
```

```
# apt-get install -y python3
Reading package lists... Done
Building dependency tree
Reading state information... Done
python3 is already the newest version (3.8.2-Oubuntu2).
python3 set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
#
```

Copia del proyecto de Pwep1 en el contenedor:

```
PS C:\Users\migue> docker cp D:\UNSA\Repositorios\Pweb1\h
tdocs pw2_lab01:/var/www/html
Successfully copied 388kB to pw2_lab01:/var/www/html
PS C:\Users\migue> |
```

Ejecución del contenedor y la página web:

```
PS C:\Users\migue> docker star pw2_lab01
docker: 'star' is not a docker command.
See 'docker --help'
PS C:\Users\migue> docker start pw2_lab01
pw2 lab01
PS C:\Users\migue> docker exec -it pw2_lab01 /bin/bash
root@096e8659972e:/# /etc/init.d/ssh start
 * Starting OpenBSD Secure Shell server sshd
                                                         [ OK ]
root@096e8659972e:/# /etc/init.d/mysql start
 * Starting MariaDB database server mysqld
                                                         [ OK ]
root@096e8659972e:/# /etc/init.d/apache2 start
 * Starting Apache httpd web server apache2
AH00558: apache2: Could not reliably determine the server
's fully qualified domain name, using 172.17.0.2. Set the
 'ServerName' directive globally to suppress this message
root@096e8659972e:/# ls /var/www/html
Pweb1 index.html
root@096e8659972e:/# cd Pweb1
bash: cd: Pweb1: No such file or directory
root@096e8659972e:/# ls /var/www/html/Pweb1
README cgi-bin htdocs mysql
root@096e8659972e:/# ls /var/www/html/Pweb1/htdocs
README.txt
                     formStyle.css
                                       style.css
banca.html
                     ig-logo.png
                                       tarjetas.html
clientes.html
                    index.html
                                       tw-logo.png
confirmacion.html logo.png
                                      wa-logo.png
cuenta.html
                     scriptBanca.is
fb-logo.png
                     scriptIndex.js
root@096e8659972e:/#
          x S Login de usuarios
→ → • Iocalhost:8084/Pweb1/htdocs/index.html
                                                                   🔉 Addons Store 💟 AliExpress 🖪. Booking.com 🦷 Facebook 🔼 YouTube 📵 2023B Dirección Un... 🐧 Vim, aumenta tu ve.
                                                                       ..... Todos los marcado
          \Pi
Nombre del banco
                                             pestaña1
                                                                 pestaña3
                                                                        pestaña3
                                                   pestaña2
                Bienvenido al banco, ingrese sus credenciales
                                    Ingrese su clave
```

• URL: Video Youtube.

https://youtu.be/-3XJFpl kjl