

Padlet (Evaluación continua) - Semana 3 Taller 1

Alumno: [Luis Méndez Lázaro](#)

Exercise 3

Security group rule ID	Type	Protocol	Port range	Source	Description - optional	Info
sgr-092be7dc163821613	Custom TCP	TCP	8000	Custom	Q	Delete
sgr-051b16038c123de4c	SSH	TCP	22	Custom	Q	Delete
sgr-0d547edc0b9a377fb	HTTP	TCP	80	Custom	Q	Delete
-	Custom TCP	TCP	8080	Anywh...	Q	Delete

Add rule

Cancel Preview changes Save rules

```
Last login: Fri Apr 14 14:28:45 2023 from 190.232.110.173
~$ docker -v
Docker version 23.0.3, build 3e7cbfd
~$ mkdir web
~$ cd web
~/web$ mkdir simple
~/web$ cd simple
~/web/simple$ ls -l
total 12
-rw-rw-r-- 1 ubuntu ubuntu 478 Apr 14 13:38 curso.html
-rw-rw-r-- 1 ubuntu ubuntu 6416 Apr 14 13:38 utec_logo.png
~/web/simple$ mv curso.html index.html
~/web/simple$ ls -l
total 12
-rw-rw-r-- 1 ubuntu ubuntu 478 Apr 14 13:38 index.html
-rw-rw-r-- 1 ubuntu ubuntu 6416 Apr 14 13:38 utec_logo.png
~/web/simple$
```

Ejercicio 3: Contenedor de página web

Dockerfile

FROM httpd:2.4

COPY ./simple /usr/local/apache2/htdocs/

simple - 3.95.217.175 - WinSCP

LocalMarkFilesCommandsSessionOptionsRemoteHelp

SynchronizeQueueTransfer SettingsDefault

3.95.217.175 XNew Session

C: Windows-simpleFind Files

UploadEditPropertiesDownloadEditPropertiesNew

C:\Users\LENOVO\

Name	Size	Type	Cha
.docker		File folder	3/10
.matplotlib		File folder	2/2
.ssh		File folder	3/30
.vscode		File folder	2/2
api-students		File folder	4/10
Contacts		File folder	2/4
Desktop		System Folder	4/10
Documents		System Folder	3/2
Downloads		System Folder	4/10
Favorites		File folder	2/4
github-classroom		File folder	2/2
homework		File folder	4/10
Links		File folder	2/4
Music		System Folder	2/4
OneDrive		System Folder	2/4
Pictures		System Folder	2/2
Postman		File folder	3/8
programs		File folder	4/10
salient		File folder	4/10
Saved Games		File folder	2/4
Searches		File folder	2/4
Videos		System Folder	2/2
.bash_history	1 KB	BASH_HISTORY File	3/9
.gitconfig	1 KB	Archivo de origen ...	2/2
.node_repl_history	0 KB	NODE_REPL_HISTO...	3/8
curso.html	1 KB	Microsoft Edge HT...	4/10
homework.txt	1 KB	Text Document	4/10
labsuser.pem	2 KB	PEM File	4/10
labsuser.ppk	2 KB	PPK File	4/10

0 B of 10.0 KB in 0 of 32

/home/ubuntu/web/simple/

Name	Size	Changed	Rights	Ow
curso.html	1 KB	4/15/2023 2:38:28 PM	rw-rwxr-x	ubu
utec_logo.png	7 KB	4/14/2023 8:38:27 AM	rw-rw-r--	ubu

0 B of 6.73 KB in 0 of 2

SFTP-30:04:16

27°C
Mayorm. nublado

Search

```
OpenSSH SSH client
total 12
-rw-rw-r-- 1 ubuntu ubuntu 478 Apr 14 13:38 index.html
-rw-rw-r-- 1 ubuntu ubuntu 6416 Apr 14 13:38 utec_logo.png
~/web/simple $ cd ..
~/web $ pico Dockerfile
~/web $ cat Dockerfile
FROM httpd:2.4
COPY ./simple/ /usr/local/apache2/htdocs/
~/web $ docker build -t websimple .
[+] Building 6.4s (7/7) FINISHED
=> [internal] load build definition from Dockerfile 0.1s
=> => transferring dockerfile: 94B 0.0s
=> [internal] load .dockerignore 0.1s
=> => transferring context: 2B 0.0s
=> [internal] load metadata for docker.io/library/httpd:2.4 0.4s
=> [internal] load build context 0.0s
=> => transferring context: 7.02kB 0.0s
=> [1/2] FROM docker.io/library/httpd:2.4@sha256:a182ef2350699f04b8f8e736747104eb273e255e818cd55 5.7s
=> => resolve docker.io/library/httpd:2.4@sha256:a182ef2350699f04b8f8e736747104eb273e255e818cd55 0.0s
=> => sha256:a182ef2350699f04b8f8e736747104eb273e255e818cd55b6d7aa50a1490ed0c 1.86kB / 1.86kB 0.0s
=> => sha256:f34e8e25ee18da020633ef0b2bf7516d8cfdad5c5c4b0595d36e5cd78a098101 1.37kB / 1.37kB 0.0s
=> => sha256:4b7fc736cb48352ef2c989d63c74bed704fc5a0cd43eb5c7c7cf9ab7faf891d1 9.04kB / 9.04kB 0.0s
=> => sha256:26c5c85e47da3022f1bdb9a112103646c5c29517d757e95426f16e4bd9533405 31.42MB / 31.42MB 0.8s
=> => sha256:2d29d3837df5ec9e2ff0a4b8a10978ee85947355425fc7042ba7d5913f1f910e 175B / 175B 0.1s
=> => sha256:2483414a5e599016e264ee3b2ba892553ed831002bd459d007cb3eca2386960f 1.72MB / 1.72MB 0.1s
=> => sha256:e78016c4ba87597d043eed944f0d81f9de4c26455fde7521ac95fb32a7504d42 23.97MB / 23.97MB 0.9s
=> => sha256:7579081754150a46fecb265e947c78a12919a397b8135fe306794946814d9286 293B / 293B 0.2s
=> => extracting sha256:26c5c85e47da3022f1bdb9a112103646c5c29517d757e95426f16e4bd9533405 2.3s
=> => extracting sha256:2d29d3837df5ec9e2ff0a4b8a10978ee85947355425fc7042ba7d5913f1f910e 0.0s
=> => extracting sha256:2483414a5e599016e264ee3b2ba892553ed831002bd459d007cb3eca2386960f 0.2s
=> => extracting sha256:e78016c4ba87597d043eed944f0d81f9de4c26455fde7521ac95fb32a7504d42 1.2s
=> => extracting sha256:7579081754150a46fecb265e947c78a12919a397b8135fe306794946814d9286 0.0s
=> [2/2] COPY ./simple/ /usr/local/apache2/htdocs/ 0.1s
=> exporting to image 0.0s
=> => exporting layers 0.0s
=> => writing image sha256:a0e0261e1f77800d93ad7f7fe910f72f10b57a885cf3cf25949359c712e026a7 0.0s
=> => naming to docker.io/library/websimple 0.0s
~/web $ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
websimple latest a0e0261e1f77 About a minute ago 145MB
~/web $ docker run -d -p 8080:80 websimple
e786e6c88495754bece72ca7ce0f213565949568c513fad42a8dcd9146481c0a
~/web $
```



Página web del Curso Cloud Computing - Ciclo 2023-1

Semana 2 - Taller de máquina virtual

Los alumnos son:

1. PEREZ, JUAN
2. COLCHADO, GERALDO
3. LAPADULA, GIANLUCA
4. TORERO, MELVIN



Exercise 4

```
OpenSSH SSH client

~/web $ docker run -d -p 8080:80 webserv
e786e6c88495754bece72ca7ce0f213565949568c513fad42a8dcd9146481c0a
~/web $ cd ..
~ $ pwd
/home/ubuntu
~ $ mkdir api01
~ $ cd api01
~/api01 $ ls -l
total 8
-rw-rw-r-- 1 ubuntu ubuntu 2788 Apr 14 15:15 app.py
-rw-rw-r-- 1 ubuntu ubuntu 346 Apr 14 15:15 db.py
~/api01 $ pico Dockerfile
~/api01 $
~/api01 $ ls -l
total 12
-rw-rw-r-- 1 ubuntu ubuntu 131 Apr 15 20:19 Dockerfile
-rw-rw-r-- 1 ubuntu ubuntu 2788 Apr 14 15:15 app.py
-rw-rw-r-- 1 ubuntu ubuntu 346 Apr 14 15:15 db.py
~/api01 $
```

```
~/api01 $ docker build -t api-students .
[+] Building 7.7s (10/10) FINISHED
=> [internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 170B 0.0s
=> [internal] load .dockerignore 0.1s
=> => transferring context: 2B 0.0s
=> [internal] load metadata for docker.io/library/python:3-slim 0.3s
=> [1/5] FROM docker.io/library/python:3-slim@sha256:286f2f1d6f2f730a44108656afb04b131504b610a6c 2.2s
=> => resolve docker.io/library/python:3-slim@sha256:286f2f1d6f2f730a44108656afb04b131504b610a6c 0.0s
=> => sha256:cd6e574ff6ad2ac75184ad90e4e374842cfc36ae21bc2f773531ac65f6939991 1.37kB / 1.37kB 0.0s
=> => sha256:d74a102e9001931b516fc86406897b35f4bccc611c2d3b0f72d7302f89047666 6.90kB / 6.90kB 0.0s
=> => sha256:9e79879be9c7cd8edaba21c88fa4be66ea65e7a3f56f98e7820bcb7dedac3b00 1.08MB / 1.08MB 0.1s
=> => sha256:5dd57ff8d4118e3a008cef44993c75ef683711925dc9866290a8064ce5a9e86b 11.94MB / 11.94MB 0.5s
=> => sha256:50349b1ecdebde63cb306d20e04683503f2e038ce6109bb5ba28e6031dc2bcbd 243B / 243B 0.1s
=> => sha256:286f2f1d6f2f730a44108656afb04b131504b610a6cb2f3413918e98dabba67e 1.65kB / 1.65kB 0.0s
=> => extracting sha256:9e79879be9c7cd8edaba21c88fa4be66ea65e7a3f56f98e7820bcb7dedac3b00 0.4s
=> => sha256:431f8d1d6c10e17de87aef2faab02ee80561cbeebbf341c61932173d6001e562 3.37MB / 3.37MB 0.2s
=> => extracting sha256:5dd57ff8d4118e3a008cef44993c75ef683711925dc9866290a8064ce5a9e86b 0.8s
=> => extracting sha256:50349b1ecdebde63cb306d20e04683503f2e038ce6109bb5ba28e6031dc2bcbd 0.0s
=> => extracting sha256:431f8d1d6c10e17de87aef2faab02ee80561cbeebbf341c61932173d6001e562 0.5s
=> [internal] load build context 0.0s
=> => transferring context: 3.38kB 0.0s
=> [2/5] WORKDIR /programas/api-students 0.1s
=> [3/5] RUN pip3 install flask 3.6s
=> [4/5] COPY . . 0.1s
=> [5/5] RUN python3 db.py 0.5s
=> exporting to image 0.6s
=> => exporting layers 0.6s
=> => writing image sha256:f57b12226b80813aea3e55ca9d44349915667a276a40435e759f2bd45673abf0 0.0s
=> => naming to docker.io/library/api-students 0.0s
~/api01 $ docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
api-students   latest    f57b12226b80  23 seconds ago 144MB
websimple      latest    a0e0261e1f77  26 minutes ago 145MB
~/api01 $ docker run -p 8000:8000 api-students
Unable to find image 'api-students:latest' locally
docker: Error response from daemon: pull access denied for api-students, repository does not exist or may require 'docker login': denied: requested access to the resource is denied.
See 'docker run --help'.
~/api01 $ docker run -p 8000:8000 api-students
* Serving Flask app 'app'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:8000
* Running on http://172.17.0.3:8000
Press CTRL+C to quit
```



HomeWorkspacesAPI NetworkExplore

OverviewPOST http://3.95.217.175:80

http://3.95.217.175:8000/students

POSThttp://3.95.217.175:8000/students

ParamsAuthorizationHeaders (8)BodyPre-request ScriptTestsSettings

BodyCookiesHeaders (5)Test ResultsStatus: 200 OK

PrettyRawPreviewVisualizeHTML

1 Student with id: 1 created successfully

HomeWorkspacesAPI NetworkExplore

OverviewGET http://3.95.217.175:800

http://3.95.217.175:8000/students

GEThttp://3.95.217.175:8000/students

ParamsAuthorizationHeaders (8)BodyPre-request ScriptTestsSettings

BodyCookiesHeaders (5)Test ResultsStatus: 200 OK

PrettyRawPreviewVisualizeJSON

```
1 [
2   {
3     "age": "19",
4     "firstname": "Luis",
5     "gender": "Male",
6     "id": 1,
7     "lastname": "Mendez"
8   }
9 ]
```

HomeWorkspacesAPI NetworkExplore

OverviewPUT http://3.95.217.175:8000

http://3.95.217.175:8000/student/1

PUThttp://3.95.217.175:8000/student/1

ParamsAuthorizationHeaders (8)BodyPre-request ScriptTestsSettings

noneform-data x-www-form-urlencodedrawbinaryGraphQL

	Key	Value	Description
<input checked="" type="checkbox"/>	firstname	Fernando	
<input checked="" type="checkbox"/>	lastname	Mendez	
<input checked="" type="checkbox"/>	gender	Male	

BodyCookiesHeaders (5)Test ResultsStatus: 200 OK

PrettyRawPreviewVisualizeJSON

```
1 {
2   "age": "19",
3   "firstname": "Fernando",
4   "gender": "Male",
5   "id": 1,
6   "lastname": "Mendez"
7 }
```

HomeWorkspacesAPI NetworkExplore

OverviewDEL http://3.95.217.175:8000

http://3.95.217.175:8000/student/1

DELETEhttp://3.95.217.175:8000/student/1

ParamsAuthorizationHeaders (8)BodyPre-request ScriptTestsSettings

noneform-data x-www-form-urlencodedrawbinaryGraphQL

	Key	Value	Description
<input checked="" type="checkbox"/>	firstname	Fernando	
<input checked="" type="checkbox"/>	lastname	Mendez	
<input checked="" type="checkbox"/>	gender	Male	

BodyCookiesHeaders (5)Test ResultsStatus: 200 OK

PrettyRawPreviewVisualizeHTML

```
1 The Student with id: 1 has been deleted.
```

```
-
134.209.244.156 - - [15/Apr/2023 20:34:46] "GET /api/islogged HTTP/1.1" 404 -
190.232.110.173 - - [15/Apr/2023 20:41:07] "PUT /students/1 HTTP/1.1" 404 -
190.232.110.173 - - [15/Apr/2023 20:41:27] "PUT /students/1 HTTP/1.1" 404 -
190.232.110.173 - - [15/Apr/2023 20:41:32] "PUT /students HTTP/1.1" 405 -
190.232.110.173 - - [15/Apr/2023 20:41:38] "GET /students HTTP/1.1" 200 -
190.232.110.173 - - [15/Apr/2023 20:42:24] "PUT /students/1 HTTP/1.1" 404 -
190.232.110.173 - - [15/Apr/2023 20:42:44] "PUT /student/1 HTTP/1.1" 400 -
190.232.110.173 - - [15/Apr/2023 20:42:53] "PUT /student/1 HTTP/1.1" 200 -
190.232.110.173 - - [15/Apr/2023 20:43:34] "DELETE /student/1 HTTP/1.1" 200 -
^C:~/api01 $ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
e786e6c88495   websimple     "httpd-foreground"      50 minutes ago Up 50 minutes  0.0.0.0:8080->80/tcp, :
:8080->80/tcp   gifted_pascal
:~/api01 $ docker stop e786e6c88495
e786e6c88495
:~/api01 $ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS        NAMES
:~/api01 $
```



```
OpenSSH SSH client

~/api01 $ docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
NAMES
ae67472ddf4e   api-students   "python3 ./app.py"      37 minutes ago Exited (0) 13 minutes ago
elegant_wing
e786e6c88495   websimple      "httpd-foreground"      58 minutes ago Exited (0) 6 minutes ago
gifted_pascal
~/api01 $ docker exec -it ae67472ddf4e /bin/bash
Error response from daemon: Container ae67472ddf4e2bb8ff52f463c9d2c1a54ef3880983ed06ebfa7524b5cebef6df is not running
~/api01 $ docker start ae67472ddf4e
ae67472ddf4e
~/api01 $ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
NAMES
ae67472ddf4e   api-students   "python3 ./app.py"      39 minutes ago Up 38 seconds  0.0.0.0:8000->8000/tcp
elegant_wing
~/api01 $ docker exec -it ae67472ddf4e /bin/bash
root@ae67472ddf4e:/programas/api-students# id
uid=0(root) gid=0(root) groups=0(root)
root@ae67472ddf4e:/programas/api-students# pwd
/programas/api-students
root@ae67472ddf4e:/programas/api-students# ls -l
total 20
-rw-rw-r-- 1 root root 131 Apr 15 20:19 Dockerfile
-rw-rw-r-- 1 root root 2788 Apr 14 15:15 app.py
-rw-rw-r-- 1 root root 346 Apr 14 15:15 db.py
-rw-r--r-- 1 root root 8192 Apr 15 20:43 students.sqlite
root@ae67472ddf4e:/programas/api-students# exit
exit
~/api01 $
```