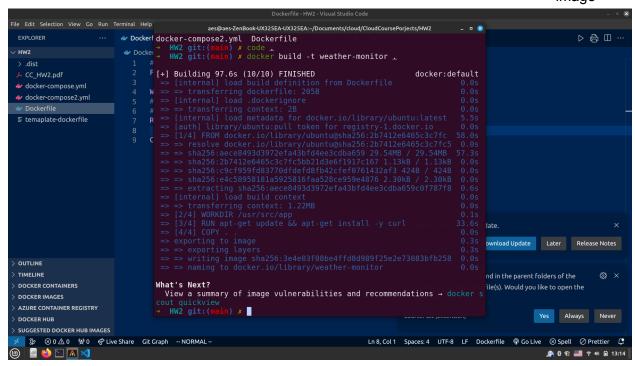
قسمت اول: -ساخت image



-فرستادن image به

```
aes@aes-ZenBook-IJX325EA-IJX325EA:~/Documents/cloud/CloudCoursePoriects/HW
What's Next?
     View a summary of image vulnerabilities and recommendations → docker scout quickview
- HW2 git: (Mean) x docker push blackberryninja/weather-monitor
Using default tag: latest
The push refers to repository [docker.io/blackberryninja/weather-monitor]
An image does not exist locally with the tag: blackberryninja/weather-monitor
→ HW2 git:(main) x docker images
REPOSITORY TAG IMAGE ID
                                 Latest 3e4e03f08be4 52 seconds ago 131MB
latest 370ad8b688de 2 days ago 1.29GB
alpine 5ff2106f0e69 3 weeks ago 239MB
n) x docker tag weather-monitor blackberryninja/weather-monitor
x docker images
weather-monitor latest
go-2-web latest
postgres
                                                                                             IMAGE ID
3e4e03f08be4
3e4e03f08be4
370ad8b688de
5ff2106f0e69
                                                                                                                             CREATED
                                                                                                                           2 minutes ago
2 minutes ago
2 days ago
3 weeks ago
blackberryninja/weather-monitor
weather-monitor
                                                                        latest
                                                                                                                                                               131MB
                                                                         latest
                                                                                                                                                               131MB
go-2-web
                                                                                                                                                               1.29GB
239MB
                                                                        latest
postgres
      HW2 git:(main) x docker images | awk -F
TAG
 latest
 latest
latest
alpine

+ HW2 git:(main) x docker push blackberryninja/weather-monitor

Using default tag: latest

The push refers to repository [docker.io/blackberryninja/weather-monitor]

0452904247b: Pushed

fbca38c097e8: Pushed

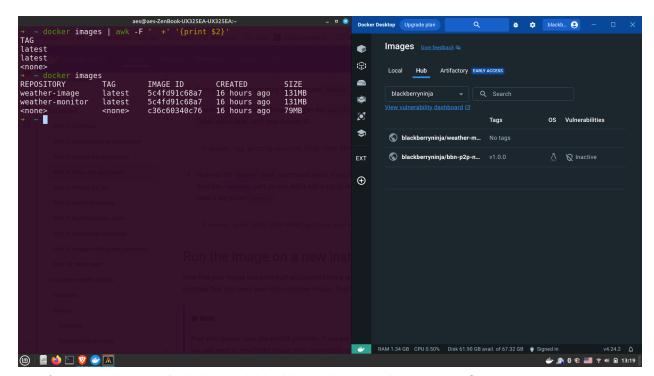
6be5bfcdbfe1: Pushed

6be5bfcdbfe1: Pushed

5b6d88da4185: Mounted from library/ubuntu

latest: digest: sha256:0036ad975c5f9e7303e3590974e1158le6dd5b4c582a7a6cfa30f845e3d95fc0 size: 1159

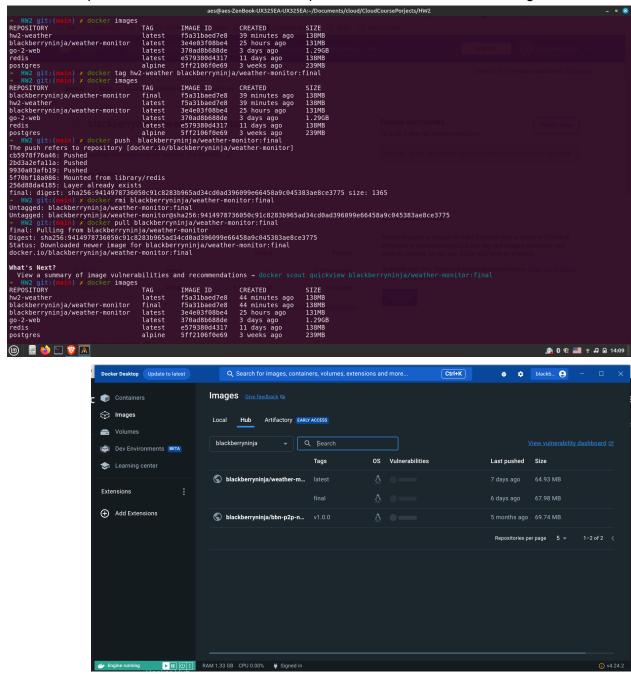
+ HW2 git:(main) x
(m) 🔡 🍅 🖺 🚮 刘
```



بعد از اجرای دستور image یک image جدید اضافه شده (docker pull blackberryninja/weather-monitor:final جدید اضافه شده (blackberryninja/weather-monito) و بعد از اجرای دستور های قابل مشاهده یک container ساخته شده و در داخل آن فر مان curl اجرا شده است.

```
root@a19ee4459185: /usr/src/app
      What's Next?
                    View a summary of image vulnerabilities and recommendations → docker scout quickview blackberryninja/weather-monitor
blackberryninja/weather-monitor latest 3e4e03f08be4 6 hours ago weather-image latest 5c4fd91c68a7 22 hours ago veather-monitor latest 5c4fd91c68a7 22 hours ago <none> casce0340c76 22 hours ago <none> c36c60340c76 22 hours ago <none> coot@a19ee4459185:/usr/src/app# curl https://google.com curl: (6) Could not resolve host: google.com coot@a19ee4459185:/usr/src/app# curl https://www.google.com/curl: (6) Could not resolve host: www.google.com coot@a19ee4459185:/usr/src/app# curl http://www.google.com/<!DOCTYPE html> chtml lang=en>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SIZE
131MB
131MB
131MB
                                                                                                                                                                                                                                                           TAG
                                                                                                                                                                                                                                                                                                                                 IMAGE ID
3e4e03f08be4
                                                                                                                                                                                                                                                                                                                                                                                                                                              CREATED
      REPOSITORY
      <html lang=en>
  <meta charset=utf-8>
                  <meta name=viewport content="initial-scale=1, minimum-scale=1, width=device-width">
<title>Error 403 (Forbidden)!!1</title>
 <style>
    *{margin:0;padding:0}html,code{font:15px/22px arial,sans-serif}html{background:#fff;color:#222;padding:15px}body{margin:7% auto 0;ma
    x-width:390px;min-height:180px;padding:30px 0 15px}* > body{background:url(//www.google.com/images/errors/robot.png) 100% 5px no-repeat;
    padding-right:205px}p{margin:11px 0 22px;overflow:hidden}ins{color:#777px}text-decoration:none}a img{border:0}@media screen and (max-width
    ;772px){body{background:none;margin-top:0;max-width:none;padding-right:0}}#logo{background:url(//www.google.com/images/branding/googlelogo/logo/googlelogo_color_150x54dp.png) no-repeat 0% 0%/100% 100%;-moz-border-image:url(//www.google.com/images/branding/googlelogo/2x/googlelogo_color_150x54dp.png) no-repeat 0% 0%/100% 100%;-moz-border-image:url(//www.google.com/images/branding/googlelogo/2x/googlelogo_color_150x54dp.png) no-repeat 0% 0%/100% 100%;-moz-border-image:url(//www.google.com/images/branding/googlelogo/2x/googlelogo_color_150x54dp.png) no-repeat;-webkit-mardevice-pixel-ratio:2){#logofbackground:url(//www.google.com/images/branding/googlelogo/2x/googlelogo_color_150x54dp.png) no-repeat;-webkit-background-size:100% 100%}}#logo{display:inline-block;height:54px;width:150px}
    </style></style>
                    <style>
         </style>
<a href=//www.google.com/><span id=logo aria-label=Google></span></a>
<a href=//www.google.com/><span id=logo aria-label=Google></span></a>
<b does not have permission to get URL <code>/</code> from this server. <ins>That's all we know.</ins>
root@al9ee4459185:/usr/src/app#
    (III) (IIII) (III) (III) (III) (III) (IIII) (III) (III) (III) (III) 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      📤 🝂 🛭 🕲 🖶 🚟 宁 🕬 🔒 19:42
```

فرستادن image به داخل dockerhub با دستور push و دریافت آن از dockerhub با دستور



- برای ساختن شبکه بین کانتینر ها یا باید از دستور های docker network create my_network و docker run و docker network my_network my_image1 -- name container1 --network my_network my_image1 -- استفاده و یا اگر در داخل داکر کامپوز انجام میدهیم با استفاده از خط های ۳۱ تا ۳۵ , 28 , 28 , 16 این کار را انجام میدهیم.

- برای persist کردن اطلاعات پایگاه داده هم از خطوط 31 32 برای تعریف مخزن و از 26 27 استفاده از آن استفاده میکنیم.
 - تصویر زیر دریافت image redis و اجرای آن را نشان میدهد که البته در خطوط ۲۲ تا ۲۹ هم تنظیمات آن دیده میشوند.

- منابع redis:

```
"capAdd": null,
"capArg": null,
"capArg": null,
"GrounsHode: "private",
"Dns: null,
"DnsSearch: null,
"Extradosts: [],
"GroupAdd": null,
"Lychode: "private",
"Cgroup: ",
"LonsGorrAdd: "0,
"Privileged: false,
"PublishAllPorts": false,
"ReadonlyRoots": false,
"ReadonlyRoots": false,
"SecurityOpt": null,
"USMode: "",
"UsernsAndee: "",
"UsernsAndee: "",
"UsernsAndee: "",
"ShmSize": 67108884,
"Runtime": "nunc",
"LonsGorrAdd: "0,
"GroupParent: "0,
"GroupParent: "0,
"GroupParent: "0,
"BlioMexightDevice: null,
"BlioDeviceReadolDos: null,
"BlioDeviceReadolDos: null,
"BlioDeviceReadolDos: null,
"BlioDeviceReadolDos: null,
"CupMonta": 0,
"CpuseClous: "",
"CpuseClous: "",
"CpuseClous: "",
"CpuseClous: "",
"Devices": null,
"DeviceRequests": null,
"DeviceGoroupParent: null,
"DeviceGoroupParent: "0,
"CpuseClous: "",
"CpuseClo
```

:weather_image منابع

```
"CapAdd": null,
"CapOrop: null,
"Caporops dode: "private",
"Don's mill,
"Don's mill,
"Don's mill,
"Don's mill,
"ExtraHosts": [].
"GroupAdd': null,
"IpcMode: "private",
"Cgroup": ",
"Links': null,
"OomScoreAd]: 0,
"PlaMode: ",
"Links': null,
"OomScoreAd]: 0,
"PlaMode: ",
"Links': null,
"OomScoreAd]: 0,
"PlaMode: ",
"Shesize": false,
"SecurityOpt: null,
"USMode: ",
"Shesize": 67108864,
"Runtime": ",
"Shesize": 67108864,
"Runtime": ",
"Shesize": 67108864,
"Runtime": ",
"Shesize": 67108867,
"Shesize": 0,
"SecurityOpt: null,
"Slindeight": 0,
"GroupParent": ",
"Slindeight": ",
"Slindeight": 0,
"GroupParent": ",
"Slindeight": 0,
"Slindeight": 0,
"Slindeight": 0,
"CpuGotaf: ",
"Slindeight": 0,
"CpuGotaf: ",
"CpuGot
```

- ساختن کانتینر ها و اجرای دستور docker ps -a

اجرای دستور docker stats

```
CONTAINER ID NAME CPU % MEM USAGE / LIMIT MEM % NET I/O BLOCK I/O PIDS 94cd8690e1d9 weather_cont 0.00% 9.289MiB / 15.32GiB 0.06% 14.6kB / 3.18kB 23.8MB / 0B 1 e640079a503e redis_cont 0.17% 6.113MiB / 15.32GiB 0.04% 8.07kB / 596B 14.9MB / 0B 5
```

- اجرای curl و دریافت نتیجه یک بار در حالتی که cache موجو هست و یکبار هم حالتی که موجود نیست.

- تصوير dockerfile



- و فایل .env که مقادیر environmnet variable ها را نگهداری میکند

```
G_env
1 PORT=8080
2 TTL=300
3 CITY=Tehran
4 API_KEY=19819fe2d2msh28c98148a7434efp17e7f8jsn489e8a38744a
5
```