```
1- ساخت ردیس
```

- docker build -t redistest.
- docker tag redistest myredis -2
- docker run -d -p 6379:6379 myredis redis -3

```
PS E:\CC\project2\part2\redisfolder> docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
PS E:\CC\project2\part2\redisfolder> docker run -d -p 6379:6379 myredis redis
34fab62c3c31788a2b589eaa596eadd9ced48742089ced001e249562acc9cada
PS E:\CC\project2\part2\redisfolder>
```

34fab62c3c31788a2b589eaa596eadd9ced48742089ced001e249562acc9cada

4- از چه پورتی استفاده کرده:

docker inspect myredis

```
PS E:\CC\project2\part2\redisfolder> docker inspect myredis
             "Id": "sha256:2501627cf044dcd1c463797f9d413b13b51d0205f0865d8fae7c48059e70c911",
             "RepoTags": [
                   "myredis:latest",
"redistest:latest"
            ],
"RepoDigests": [],
"Parent": "",
"Comment": "buildkit.dockerfile.v0",
"Created": "2022-12-20T21:20:51.1661699Z",
"Container": "",
"Container": "",
             "Container Config": {
                   "Hostname": "",
"Domainname": "",
                    "User": ""
                    "AttachStdin": false,
                    "AttachStdout": false,
                    "AttachStderr": false,
                    "Tty": false,
                   "Tty": false,
"OpenStdin": false,
"StdinOnce": false,
"Env": null,
"Cmd": null,
"Image": "",
"Volumes": null,
"WorkingDir": "",
"Fatrypoint": null
                    "Entrypoint": null,
                    "OnBuild": null,
                    "Labels": null
```

```
PS E:\CC\project2\part2> docker image push rey2rey/myredis
Using default tag: latest
The push refers to repository [docker.io/rey2rey/myredis]
d4644049d97b: Pushed
83109fa660b2: Pushed
30d3c4334a23: Pushed
f2fa9f4cf8fd: Pushed
latest: digest: sha256:a8865be54c999d16607956122d26bc2c9188899660cd1853fa1d13d13d722d3e size: 1157
PS E:\CC\project2\part2>
```

PS E:\CC\project2\part2> docker network create --driver bridge mynet 5f4869b48bfabd48f53f6d9006397eb0837a3b01bc223b19a71bb280dcdcdb69
PS E:\CC\project2\part2> docker volume create my-volume my-volume
PS E:\CC\project2\part2>

```
PS E:\CC\project2\par<sup>†</sup>t2> <mark>docker run -</mark>d -p 6379:6379 --name myredis -v my-volume:/data --network mynet redis f87966b6a50c7f6e232985861163f0cd8e2a7c30b3db5c5243c3f1bb2c977594
PS E:\CC\project2\part2>
```

```
PS E:\CC\project2\part2> docker network create --driver bridge mynet 5f4869b48bfabd48f53f6d9006397eb0837a3b01bc223b19a71bb280dcdcdb69
   PS E:\CC\project2\part2> docker volume create my-volume
   my-volume
PS E:\CC\project2\part2> docker pull rey2rey/myredis
PS E:\CC\project2\part2> docker pull reyzrey/myred.3

Using default tag: latest

PS E:\CC\project2\part2> docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

PS E:\CC\project2\part2> docker run -d -p 6379:6379 --name rey2rey2/myredis -v my-volume:/data --network mynet redis docker: Error response from daemon: Invalid container name (rey2rey2/myredis), only [a-zA-Z0-9][a-zA-Z0-9_.-] are allowed. See 'docker run --help'.

PS E:\CC\project2\part2> docker run -d -p 6379:6379 --name myredis -v my-volume:/data --network mynet redis f87966b6a50c7f6e232985861163f0cd8e2a7c30b3db5c5243c3f1bb2c977594

PS E:\CC\project2\part2> docker ps -a

CREATED STATUS PORTS
 PS E:\CC\project2\part2> docker ps -a
CONTAINEN ID IMAGE
R87966b6a50c redis
34fab62c3c31 wyredis
4d0aee30fcfc
4d0dc1b014ef1 reyzrey/myimagehub
322d0502bc79 rey2rey/myimagehub
820dfd234de rey2rey/myimagehub
8b11725f9063 rey2rey/myimagehub
931d0d0c75d54 rey2rey/myimagehub
imagetest
1d62ee49c7ce kicbase/stable:v0.0.36
                                                                                                                                    COMMAND CREATED

"docker-entrypoint.s..." 42 seconds ago
20 hours ago
"/bin/bash" 2 days ago
"/bin/bash" 2 days ago
"/bin/bash" 2 days ago
                                                                                                                                                                                                                                                                           Up 40 seconds
Exited (1) 20 hours ago
Exited (0) 2 days ago
Exited (0) 2 days ago
Exited (0) 2 days ago
Exited (127) 2 days ago
Exited (127) 2 days ago
                                                                                                                                                                                                                                                                                                                                                                  0.0.0.0:6379->6379/tcp
                                                                                                                                                                                                                                                                                                                                                                                                                                                   myredis
                                                                                                                                                                                                                                                                                                                                                                                                                                                     crazy_rosalind
                                                                                                                                                                                                                                                                                                                                                                                                                                                    recursing_curran
nifty_visvesvaraya
youthful_spence
                                                                                                                                                                                                                     2 days ago
2 days ago
                                                                                                                                                                                                                                                                                                                                                                                                                                                   angry_haibt
exciting_blackwell
                                                                                                                                   "/bin/bash" 2 days ago
"-fsSL https://www.g." 2 days ago
"/bin/bash" 2 days ago
"/bin/bash" 2 days ago
"/usr/local/bin/entr.." 5 days ago
                                                                                                                                                                                                                                                                              Created
                                                                                                                                                                                                                                                                              Exited (130) 2 days ago
Exited (130) 2 days ago
Exited (130) 5 days ago
                                                                                                                                                                                                                                                                                                                                                                                                                                                   vigorous_agnesi
wizardly brattain
```

-2

```
PS E:\CC\project2\part2> docker build -t appserver .

[i] Building 15.0s (9/9) FINISHED

> [internal] load build definition from Dockerfile

> => transferring dockerfile: 32B

> [internal] load .dockerignore

> => transferring context: 2B

> [internal] load metadata for docker.io/library/python:3.11.0a6-alpine3.15

> CACHED [1/5] FROM docker.io/library/python:3.11.0a6-alpine3.15

> CACHED [1/5] FROM docker.io/library/python:3.11.0a6-alpine3.15@sha256:6c215dcdebd4c2d15e5e5fb8307f913c34af918b1b5e5f166d620c871281d2cc

0.0s

> [internal] load metadata for docker.io/library/python:3.11.0a6-alpine3.15

> [ACHED [1/5] FROM docker.io/library/python:3.11.0a6-alpine3.15

> [internal] load metadata for docker.io/library/python:3.11.0a6-alpine3.15

> [3/5] RUM pip install -r requirements.txt

0.0s

> [3/5] RUM pip install -r requirements.txt

13.5s

> [4/5] COPY requirements.txt

13.5s

> [4/5] COPY image

> exporting to image

> pexporting to image

> pexporting layers

> pexporting layers

> pexporting image sha256:alc6451cfc1b0a9850d7d1b0d0822026e88f5e2a33303369f9fefa812dc62ca3

0.0s

> per requirements.tx

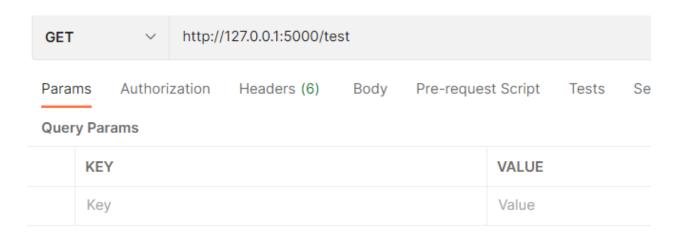
0.0s

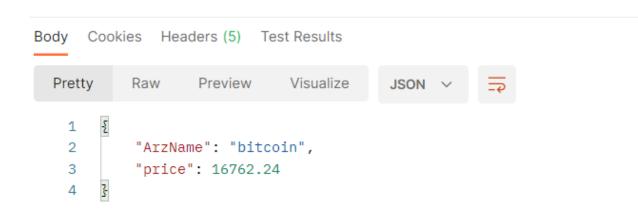
| Copy | Copy
```

```
PS E:\CC\project2\part2> docker images
REPOSITORY
                                                    IMAGE ID
                                                                     CREATED
                                                                                              SIZE
appserver
                                   latest
                                                    a1c6451cfc1b About a minute ago
                                                                                              72MB
                                                 2501627cf044 21 hours ago
2501627cf044 21 hours ago
2501627cf044 21 hours ago
012a0a1c165b 2 days ago
012a0a1c165b 2 days ago
00cd1fb8bdcc 8 weeks ago
866c1fe4e3f2 8 weeks ago
myredis
                                   latest
                                                                                              214MB
                                   latest
redistest
                                                                                              214MB
                                  latest
rey2rey/myredis
                                                                                              214MB
imagetest
                                  latest
                                                                                              125MB
rey2rey/myimagehub
                                   latest
                                                                                              125MB
python
                                   latest
                                                                                             932MB
kicbase/stable
                                  v0.0.36
                                                                                             1.11GB
                                                 866c1fe4e3f2 8 weeks ago
gcr.io/k8s-minikube/kicbase v0.0.36
                                                                                             1.11GB
                                             6c746001fe6d 12 months ago
alpine/curl
                                   latest
                                                                                             7.71MB
                                                   02c7f2054405 15 months ago
redis
                                   latest
                                                                                              105MB
python
                                   3.9.6-alpine 0238e48b207f
                                                                     16 months ago
                                                                                              45.1MB
PS E:\CC\project2\part2>
```

docker run --rm -p 5000:5000 --network mynet --name getPrice appserver

```
PS E:\CC\project2\part2> docker run --rm -p 5000:5000 --network mynet --name getPrice appserver
300
5000
bitcoin
    * Serving Flask app 'app'
    * Debug mode: on
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://127.0.0.1:5000
    * Running on http://172.18.0.3:5000
Press CIRL+C to quit
    * Restarting with stat
    * Debugger PIN: 291-293-427
172.18.0.1 - - [21/Dec/2022 20:04:30] "GET /test HTTP/1.1" 200 -
172.18.0.1 - - [21/Dec/2022 20:04:35] "GET /test HTTP/1.1" 200 -
172.18.0.1 - - [21/Dec/2022 20:06:13] "GET /test HTTP/1.1" 200 -
172.18.0.1 - - [21/Dec/2022 20:09:26] "GET /test HTTP/1.1" 200 -
```





```
Press CTRL+C to quit

* Restarting with stat

* Debugger is active!

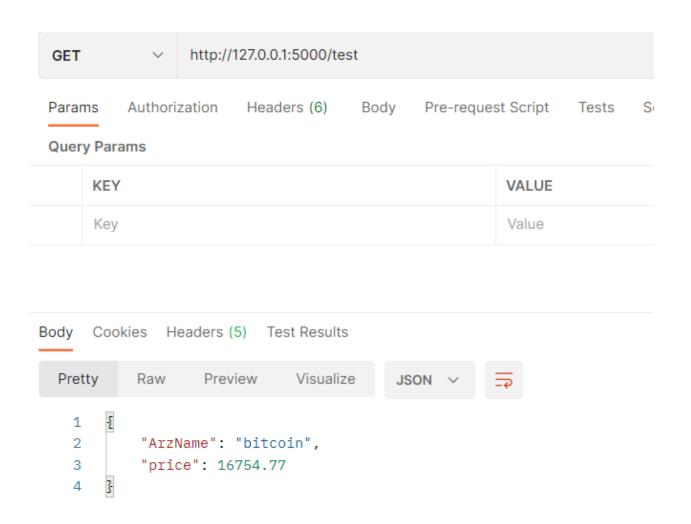
* Debugger PIN: 291-293-427

172.18.0.1 - - [21/Dec/2022 20:04:30] "GET /test HTTP/1.1" 200 -

172.18.0.1 - - [21/Dec/2022 20:04:35] "GET /test HTTP/1.1" 200 -

172.18.0.1 - - [21/Dec/2022 20:06:13] "GET /test HTTP/1.1" 200 -

172.18.0.1 - - [21/Dec/2022 20:09:26] "GET /test HTTP/1.1" 200 -
```



PS E:\CC\project2\part2> docker stop getPrice getPrice
PS E:\CC\project2\part2>

```
PS E:\CC\project2\part2> docker image push rey2rey/appserver
Using default tag: latest
The push refers to repository [docker.io/rey2rey/appserver]
00575d3c791c: Layer already exists
dbbec3b12cd5: Layer already exists
0825b1d10c3f: Layer already exists
cf47a6e12eb3: Layer already exists
e643e0ae620e: Layer already exists
2091c8163eb1: Pushed
fbd7d5451c69: Layer already exists
4fc242d58285: Pushed
latest: digest: sha256:cab6de2e9ca119c1e02f63eb9ade95ddab6b6fcee70345537bad124c36643ae9 size: 1994
PS E:\CC\project2\part2>
```

```
PS E:\CC\project2\part2> docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
f87966b6a50c redis "docker-entrypoint.s..." 2 hours ago Up 2 hours 0.0.0.0:6379->6379/tcp myredis
PS E:\CC\project2\part2> docker inspect appserver

[
```

```
PS E:\CC\project2\part2> docker inspect appserver

{
    "Id": "sha256:fed0df6ba96986a0cdfe3297a583cd2f2fb7127e1316e4d837d179dafbd924cf",
    "RepoTags": [
        "appserver:latest"
    ],
    "RepoDigests": [],
    "Parent": "",
    "Comment": "buildkit.dockerfile.v0",
    "Created": "2022-12-21T20:04:17.5787319Z",
    "Container": "",
    "ContainerConfig": {
        "Hostname": "",
        "Domainname": "",
        "User": "",
        "AttachStdin": false,
        "AttachStdour": false,
        "AttachStderr": false,
        "Tty": false,
        "OpenStdin": false,
        "StdinOnce": false,
        "Stdi
```

PS E:\CC\project2\part2> docker stats

CONTAINER ID	NAME	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O	BLOCK I/O	PIDS
f87966b6a50c	myredis	<u>0</u> .43%	8.598MiB / 8.876GiB	0.09%	15.3kB / 9.15kB	0B / 0B	5