

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": "",
    "ContainerConfig": {
      "Hostname": "",
      "Domainname": "",
      "User": "",
      "AttachStdin": false,
      "AttachStdout": false,
      "AttachStderr": false,
      "Tty": false,
      "OpenStdin": false,
      "StdinOnce": false,
      "Env": null,
      "Cmd": null,
      "Image": "",
      "Volumes": null,
      "WorkingDir": "",
      "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\part2> docker run -d -p 6379:6379 --name myredis -v my-volume:/data --network mynet redis
f87966b6a50c7f6e232985861163f0cd8e2a7c30b3db5c5243c3f1bb2c977594
PS E:\CC\project2\part2>

```

```

1d62ee49c7ce kicbase/stable:v0.0.36 /usr/local/bin/entr... 5 days ago Exited (130) 5 days ago minikube
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
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
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
f87966b6a50c redis "docker-entrpoint.s..." 42 seconds ago Up 40 seconds 0.0.0.0:6379->6379/tcp myredis
34fab62c3c31 myredis "/usr/bin/redis-serv..." 20 hours ago Exited (1) 20 hours ago crazy_rosalind
4d0aee30fcfc rey2rey/myimagehub "/bin/bash" 2 days ago Exited (0) 2 days ago recurring_curran
40dc1b014ef1 rey2rey/myimagehub "/bin/bash" 2 days ago Exited (0) 2 days ago nifty_visvesvaraya
322d0502bc79 rey2rey/myimagehub "/bin/bash" 2 days ago Exited (0) 2 days ago youthful_spence
f820dfd234de rey2rey/myimagehub "/bin/bash" 2 days ago Exited (127) 2 days ago angry_haibt
8b11725f9063 rey2rey/myimagehub "-fsSL https://www.g..." 2 days ago Created exciting_blackwell
03d0d0c75d54 rey2rey/myimagehub "/bin/bash" 2 days ago Exited (130) 2 days ago vigorous_agnesi
591282e81aa8 imagetest "/bin/bash" 2 days ago Exited (130) 2 days ago wizardly_brattain
1d62ee49c7ce kicbase/stable:v0.0.36 "/usr/local/bin/entr..." 5 days ago Exited (130) 5 days ago minikube
PS E:\CC\project2\part2>

```

docker build -t appserver . -1

```
PS E:\CC\project2\part2> docker build -t appserver .
[+] 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@sha256:6c215dcdeb4c2d15e5e5fb8307f913c34af918b1b5e5f166d620c871281d2cc
=> [internal] load build context
=> => transferring context: 274B
=> [2/5] COPY requirements.txt .
=> [3/5] RUN pip install -r requirements.txt
=> [4/5] COPY . .
=> exporting to image
=> => exporting layers
=> => writing image sha256:a1c6451cfc1b0a9850d7d1b0d0822026e88f5e2a33303369f9fefa812dc62ca3
=> => naming to docker.io/library/appserver

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
PS E:\CC\project2\part2>
```

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

```
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 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 -
```

GET

⌵

http://127.0.0.1:5000/test

Params

Authorization

Headers (6)

Body

Pre-request Script

Tests

Se

Query Params

	KEY	VALUE
	Key	Value

Body

Cookies

Headers (5)

Test Results

Pretty

Raw

Preview

Visualize

JSON ⌵

↻

```
1 {
2   "ArzName": "bitcoin",
3   "price": 16762.24
4 }
```

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 -
```


GET ▼ http://127.0.0.1:5000/test

Params Authorization Headers (6) Body Pre-request Script Tests S

Query Params

	KEY	VALUE
	Key	Value

Body Cookies Headers (5) Test Results

Pretty Raw Preview Visualize JSON ▼ 

```
1 {  
2   "ArzName": "bitcoin",  
3   "price": 16754.77  
4 }
```

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

```
denied: requested access to the resource is denied  
PS E:\CC\project2\part2> docker tag appserver rey2rey/appserver
```

```

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>

```

```

PS E:\CC\project2\part2> docker inspect appserver
[
  {
    "Id": "sha256:fed0df6ba96986a0cdfef3297a583cd2f2fb7127e1316e4d837d179dafbd924cf",
    "RepoTags": [
      "appserver:latest"
    ],
    "RepoDigests": [],
    "Parent": "",
    "Comment": "buildkit.dockerfile.v0",
    "Created": "2022-12-21T20:04:17.5787319Z",
    "Container": "",
    "ContainerConfig": {
      "Hostname": "",
      "Domainname": "",
      "User": "",
      "AttachStdin": false,
      "AttachStdout": false,
      "AttachStderr": false,
      "Tty": false,
      "OpenStdin": false,
      "StdinOnce": false,
      "OnBuild": []
    },
    "NetworkSettings": {
      "Bridge": "",
      "SandboxID": "",
      "HairpinMode": false,
      "LinkLocalIPv6Address": "",
      "LinkLocalIPv6Prefix": "",
      "MacAddress": "",
      "Networks": {}
    },
    "Mounts": []
  }
]

```

```

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

```

CONTAINER ID	NAME	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O	BLOCK I/O	PIDS
f87966b6a50c	myredis	0.43%	8.598MiB / 8.876GiB	0.09%	15.3kB / 9.15kB	0B / 0B	5