EXPERIMENT 2

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Aim: Working with Docker - Basic Commands

1. Finding a Redis Image on Docker Hub:

<pre>[boora@parrot]=[~] \$docker search redis</pre>	C R C No. 100% R Conview - Q			
NAME X X X Doora	DESCRIPTION	STARS	OFFICIAL	AUTOMATED
redis	Redis is the world's fastest data platform f	13000	[OK]	
bitnami/redis	Bitnami container image for Redis	300		[OK]
redis/redis-stack	redis-stack installs a Redis server with add	117		
redis/redis-stack-server	redis-stack-server installs a Redis server w	82o Exercise 3		
redislabs/redis	Clustered in-memory database engine compatib	42		
ubuntu/redis	Redis, an open source key-value store. Long	22		
116 11 11				

Pulling redis image on local machine to use it offline ~ docker pull redis this command will pull the redis image from docker hub.

```
boora@parrot]-[~]
    $docker pull redis
Using default tag: latest
latest: Pulling from library/redis
a2318d6c47ec: Pull complete
ed7fd66f27f2: Pull complete
410a3d5b3155: Pull complete
9312cf3f6b3e: Pull complete
c39877ab23d0: Pull complete
01394ffc7248: Pull complete
4f4fb700ef54: Pull complete
5a03cb6163ab: Pull complete
Digest: sha256:eadf354977d428e347d93046bb1a5569d701e8deb68f090215534a99dbcb23b9
Status: Downloaded newer image for redis:latest
docker.io/library/redis:latest
  [boora@parrot]
     $docker images | grep redis
                                          590b81f2fea1 6 weeks ago
                                latest
                                                                         117MB
```

We can check what all images are pull from docker hub \sim docker images

this command helps to see all the images downloaded on to the local machine.

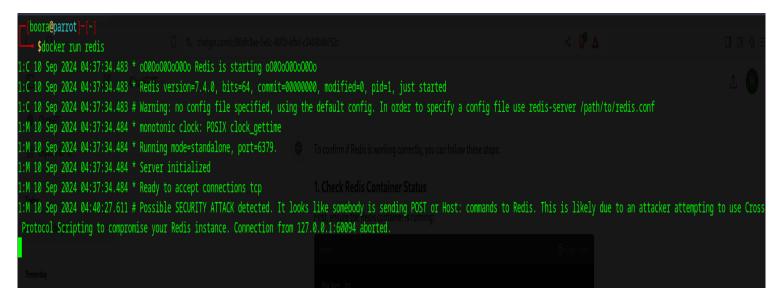
[boora@parrot] [~] \$docker images	11 10 19 18		- P 3 + - + - + + + + + + + +	4 : 5 : 6 : 7
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
portainer/portainer-ce	latest	744a24a2496a	2 weeks ago	301MB
booraraman/easy-drive-rentals	v1.1	0a3ed4d239af	2 weeks ago	1.18GB
easy-drive-rentals	v1.1	0a3ed4d239af	2 weeks ago	1.18GB
node	latest	675eb396b32b	2 weeks ago	1.11GB
redis	latest	590b81f2fea1	6 weeks ago	al117MBk wh
booraraman/easy-drive-rentals	1	1c3b2171cf4e	2 months ago	er1.18GB
booraraman/lms	latest	8b3185d589e9	7 months ago	1.14GB

As redis image has been pulled from the docker hub we can use it.

2. Running the docker container having the redis image: To run redis we will use the command

~docker run redis

As It Shows Ready To Accept Connection That Means That the redis container is working fine.



3. Docker ps and Docker ps -a
These commands show the list of docker containers on
our local machine

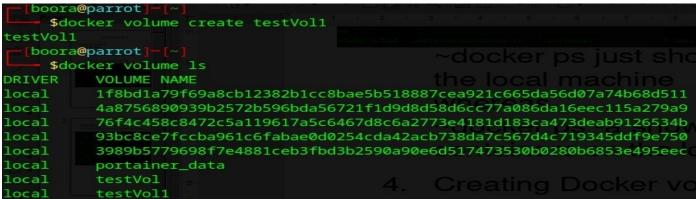
On running ~docker ps and ~docker ps -a the output is



~docker ps just shows the current running containers or the local machine

whereas

- ~docker ps -a shows the list of all running and stopped containers on the local machine
- Creating Docker volume ~docker volume create testVol1



Running the redis container with the new volume:

~docker run -d —name redis-container1 -v testVol1:/data redis



this creates another container