

14-5-2024



CONOCIMIENTO Y CULTURA PARA EL DESARROLLO HUMANO

SEGURIDAD DE DATOS

TUXTTER

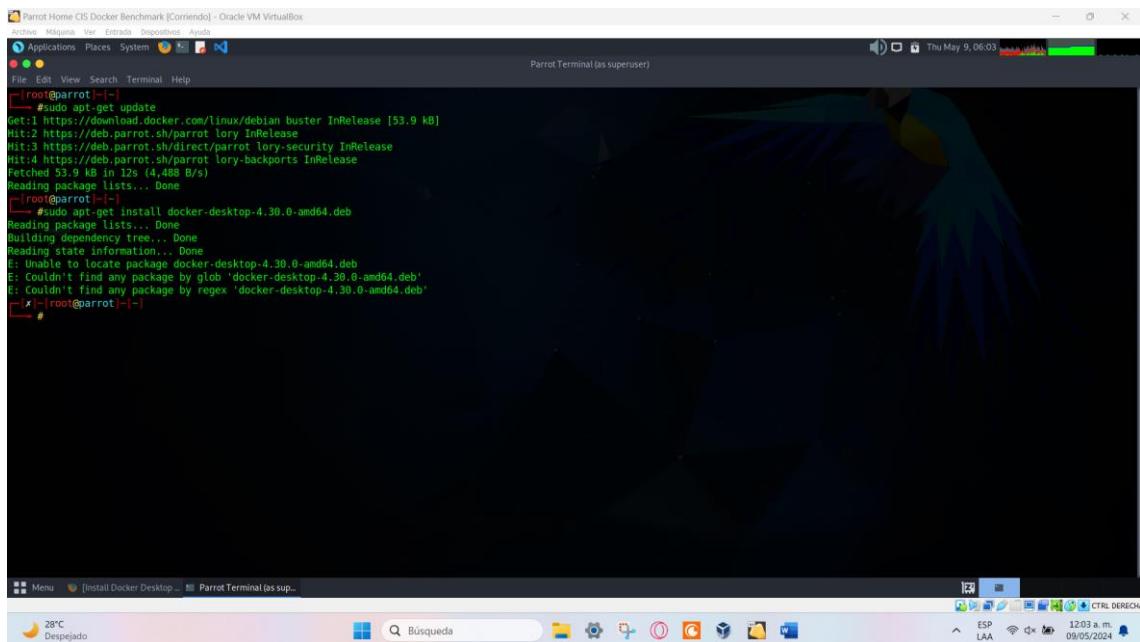
SECCION 1

INGENIERIA EN DATOS E INTELIGENCIA
ORGANIZACIONAL

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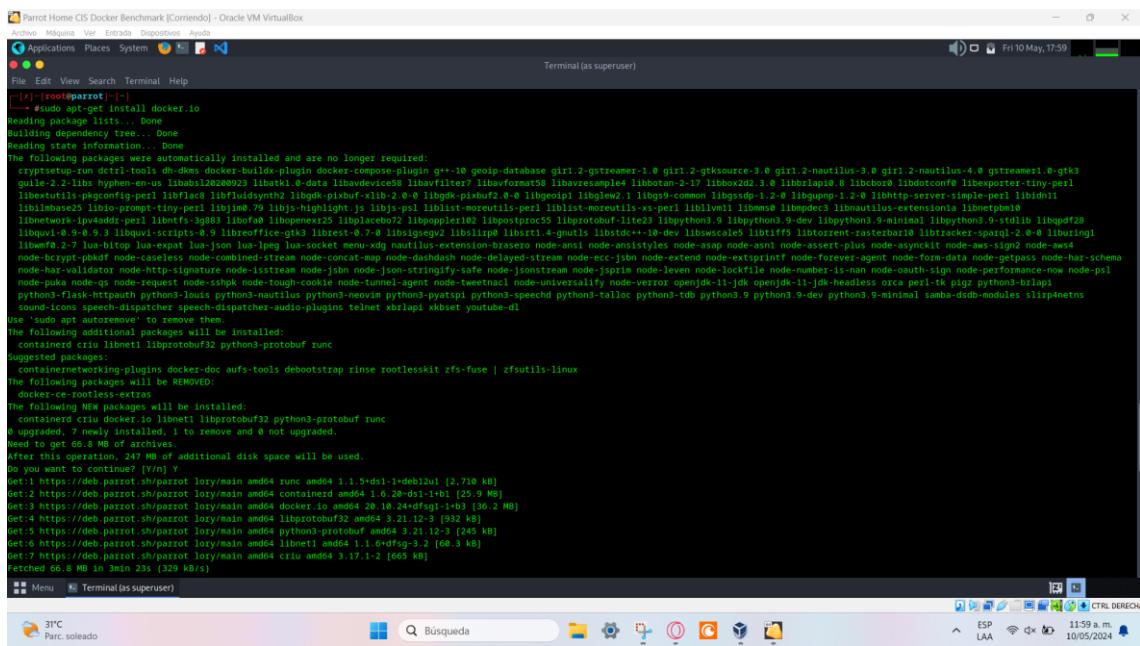
CIS

INSTALACION DE DOCKER DESKTOP EN PARROT



```
[root@parrot ~]#
[root@parrot ~]# sudo apt-get update
Get:1 https://download.docker.com/linux/debian buster InRelease [53.9 kB]
Hit:2 https://deb.parrot.sh/parrot lory InRelease
Hit:3 https://deb.parrot.sh/direct/parrot lory-security InRelease
Hit:4 https://deb.parrot.sh/parrot lory-backports InRelease
Fetched 53.9 kB in 12s (4,488 B/s)
Reading package lists... Done
[...]
[root@parrot ~]# sudo apt-get install docker-desktop-4.30.0-amd64.deb
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package docker-desktop-4.30.0-amd64.deb
E: Couldn't find any package by glob 'docker-desktop-4.30.0-amd64.deb'
E: Couldn't find any package by regex 'docker-desktop-4.30.0-amd64.deb'
[root@parrot ~]#
```

INSTALACION DE DOCKER.IO EN LA TERMINAL DE PARROT



```
[root@parrot ~]#
[root@parrot ~]# sudo apt-get install docker.io
Reading package lists... done
Building dependency tree...
The following packages were automatically installed and are no longer required:
cryptsetup run deb1l tools dh-dexx docker-buildx-plugin docker compose-plugin g++-10 geoip-database girl1.2-gstreamer1.8 girl1.2-nautilus-3.8 girl1.2-nautilus-4.0 gstreamer1.0-gtk3
gule-2.2-libs hyphen-en-us libabi120208023 libatk1.0-data libavdevice58 libavfilter7 libavformat58 libavresample4 libbluray2.17 libbox2d3.0 libcurl4.8 libcurl libltdlconf0 libexporter-tiny-perl
libhexutil5 libconfig-perl libflac8 libfluidsynth7 libgd-pixbuf2.0.0 libgd-pixbuf2.0.0 libgdscript1 libhttp-client libhttpd1.2.0 libhttp-server-simple-perl libidn11
liblmdb5 libio-prompt-tiny-perl libjime0.79 libjim-highlight.js libjjs-psl liblist-moreutils-perl liblist-moreutils2.1 liblwp-libwww libmbedtls3 libnautilus-extension3 libnetpbm9
libnetwerk1p0 libnetcurses5 libnode0.83 libnode0 libnodeevx25 libpoppler02 libprotobuf1.2.3 libpython3.9 libpython3.9-dev libpython3.9-minimal libpython3.9-stdlib libqpdf28
libquvi0.9.9.3 libquvi1-script5 librsvg0.7.4 librsvg2 libsigev2 libsril1.4-gnuls libstdc++-10-dev libwscale5 libtiff5 libtorrent-rasterbar libtracker-sparql-2.0.0 liburing1
libwacom8.2.0 libw-bitmap libw-expat libw-icon libw-peg libw-socket menu-item-nautilus-extension-brasero node-and node-ensities node-asap node-ash1 node-assert-plus node-asynckit node-aws-sign2 node-aws4
node-crypt-pbkdf2 node-htdp node-http-signature node-inet-stream node-javascript node-json-stingify node-memcached-stream node-ncrypt node-openssl node-exim4 node-exim4mtt node-fido node-fido2 node-geopass node-har-schema
node-har-validator node-http-signature node-inet-stream node-javascript node-json-stingify node-memcached-stream node-ncrypt node-exim4mtt node-fido node-geopass node-har-schema
node-puks node-request node-sshpk node-tough-cookie node-tunnel-agent node-tweetnacl node-universalify node-verror openjdk11-jdk openjdk11-jdk-headless oracle-perl tk ping python3-brlapi
python3-flask httpauth python3-louis python3-nautilus python3-neovim python3-pyatspi python3-psched python3-talloc python3-tdb python3_9 python3_9-dev python3_9-minimal samba-dict-modules slirp4netns
sound-icons speech-dispatcher speech-dispatcher-audio-plugins telnet xbrlapi xkbset youtube-dl
Use 'sudo apt autoremove' to remove them
The following additional packages will be installed:
containerd criu libprotobuf32 python3-distro
Suggested packages
libsystemd-detective-plugins docker-doc aufs-tools debootstrap rinse rootlesskit zfs-fuse | zfsutils-linux
The following packages will be REMOVED:
dockercfg-ce-rootless-extras
The following NEW packages will be installed:
containerd criu docker.io libprotobuf32 python3-protobuf runc
0 upgraded, 7 newly installed, 1 to remove and 0 not upgraded.
Need to get 66.8 MB of archives.
After this operation, 247 MB of additional disk space will be used.
Do you want to continue? [Y/n]
Get:1 https://deb.parrot.sh/parrot lory/main amd64 runc amd64 1.1.5+deb11+1~deb11u2 [2,718 kB]
Get:2 https://deb.parrot.sh/parrot lory/main amd64 containerd amd64 1.6.20-ds1-1+b1 [25.9 kB]
Get:3 https://deb.parrot.sh/parrot lory/main amd64 docker.io amd64 20.10.24+dfsg1-1+b1 [36.2 kB]
Get:4 https://deb.parrot.sh/parrot lory/main amd64 libprotobuf32 amd64 3.21.12-3 [932 kB]
Get:5 https://deb.parrot.sh/parrot lory/main amd64 python3-protobuf amd64 3.21.12-3 [245 kB]
Get:6 https://deb.parrot.sh/parrot lory/main amd64 libnet1 amd64 1.1.6+dfsg-3.2 [68.3 kB]
Get:7 https://deb.parrot.sh/parrot lory/main amd64 criu amd64 3.17.1-2 [665 kB]
Fetched 86.8 MB in 3min 23s (329 kB/s)
```

INSTALACION CORRECTAMENTE:

```
Parrot Home CIS Docker Benchmark [Corriendo] - Oracle VM VirtualBox
File Edit View Search Terminal Help
Terminal (as superuser)
Usage: docker [OPTIONS] COMMAND
A self-sufficient runtime for containers

Options:
--config string   Location of client config files (default "/root/.docker")
--context string  Name of the context to use to connect to the daemon (overrides DOCKER_HOST env var and default context set with "docker context use")
-D, --debug       Enable debug mode
-H, --host list   Daemon socket(s) to connect to
--log-level string Set the logging level ("debug"|"info"|"warn"|"error"|"fatal") (default "info")
--tls             Use TLS; implied by --tlscert
--tlscacert string Trust certs signed only by this CA (default "/root/.docker/ca.pem")
--tlscert string  Path to TLS certificate file (default "/root/.docker/cert.pem")
--tlskey string   Path to TLS key file (default "/root/.docker/key.pem")
--tlsv1            Use TLS and verify the remote
-v, --version     Print version information and quit

Management Commands:
builder    Manage builds
buildx*   Docker Buildx (Docker Inc., v0.14.0)
completion Generate the autocompletion script for the specified shell
compose*  Docker Compose (Docker Inc., v2.27.0)
config     Manage Docker configs
container  Manage containers
context*  Manage contexts
image      Manage Images
manifest* Manage Docker image manifests and manifest lists
network   Manage networks
node      Manage Swarm nodes
plugin*  Manage plugins
secret    Manage Docker secrets
service   Manage services
stack     Manage Docker stacks
swarm*   Manage Swarm
system   Manage Docker
trust     Manage trust on Docker images

ESP 31°C Búsqueda CTRL DERECHA
Parc. soleado Fri 10 May, 18:04
LAA 1204 p.m. 10/05/2024
```

INSTALACION Y ACTIVACION DEL AGENTE WAZUH PARA MONITOREO

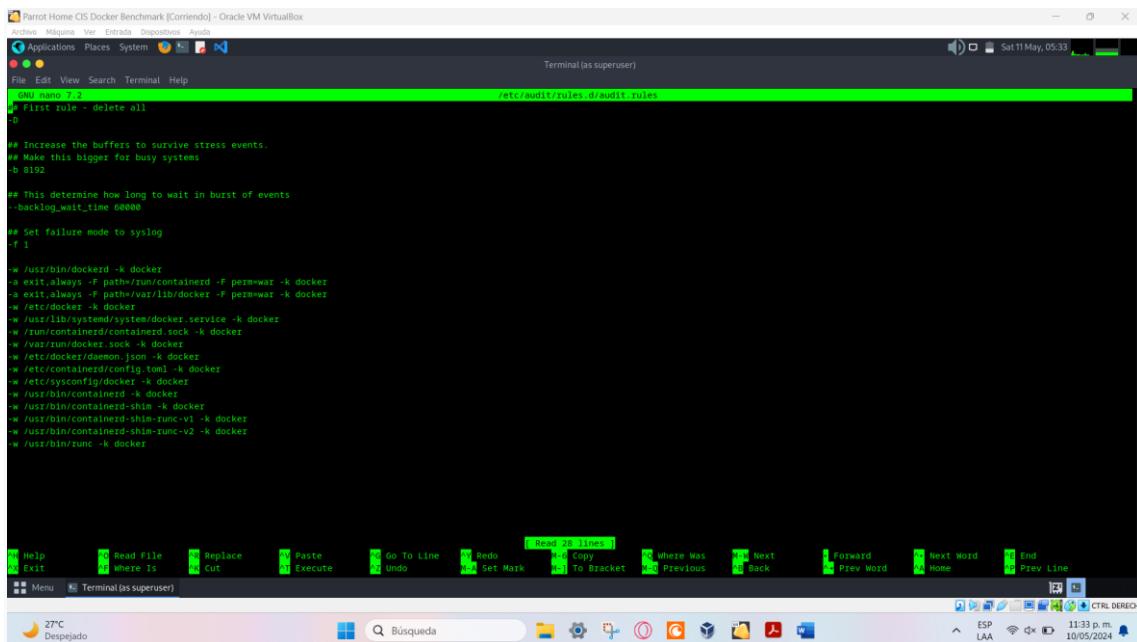
```
[root@parrot] ~
--> wget https://packages.wazuh.com/4.x/apt/pool/main/w/wazuh-agent/wazuh-agent_4.7.4-1_amd64.deb && sudo WAZUH_MANAGER='192.168.8.7' WAZUH_AGENT_GROUP='default' WAZUH_AGENT_NAME='CIS-DOCKER-BENCHMARK' dpkg -i ./wazuh-agent_4.7.4-1_amd64.deb
--2024-05-10 18:41:08 -- https://packages.wazuh.com/4.x/apt/pool/main/w/wazuh-agent/wazuh-agent_4.7.4-1_amd64.deb
Resolving packages.wazuh.com (packages.wazuh.com)... 100.156.83.112, 100.156.83.53, 100.156.83.74, ...
Connecting to packages.wazuh.com (packages.wazuh.com)|100.156.83.112|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 9372734 (8.9M) [binary/octet-stream]
Saving to: ./wazuh-agent_4.7.4-1_amd64.deb

wazuh-agent_4.7.4-1_amd64.deb          100%[=====]   8.94M  616KB/s  in 14s

2024-05-10 18:41:30 (661 KB/s) - 'wazuh-agent_4.7.4-1_amd64.deb' saved [9372734/9372734]

Selecting previously unselected package wazuh-agent.
(Reading database ... 368552 files and directories currently installed.)
Preparing to unpack .../wazuh-agent_4.7.4-1_amd64.deb ...
Unpacking wazuh-agent (4.7.4-1) ...
Setting up wazuh-agent (4.7.4-1) ...
[root@parrot] ~
--> # sudo systemctl daemon-reload
sudo systemctl enable wazuh-agent
sudo systemctl start wazuh-agent
Created symlink /etc/systemd/system/multi-user.target.wants/wazuh-agent.service → /lib/systemd/system/wazuh-agent.service.
[root@parrot] ~
```

1. CONFIGURACIÓN ESPECÍFICA DE HOSTS LINUX



```
# nano 7.2
# First rule - delete all
#D

## Increase the buffers to survive stress events.
## Make this bigger for busy systems
#B 8192

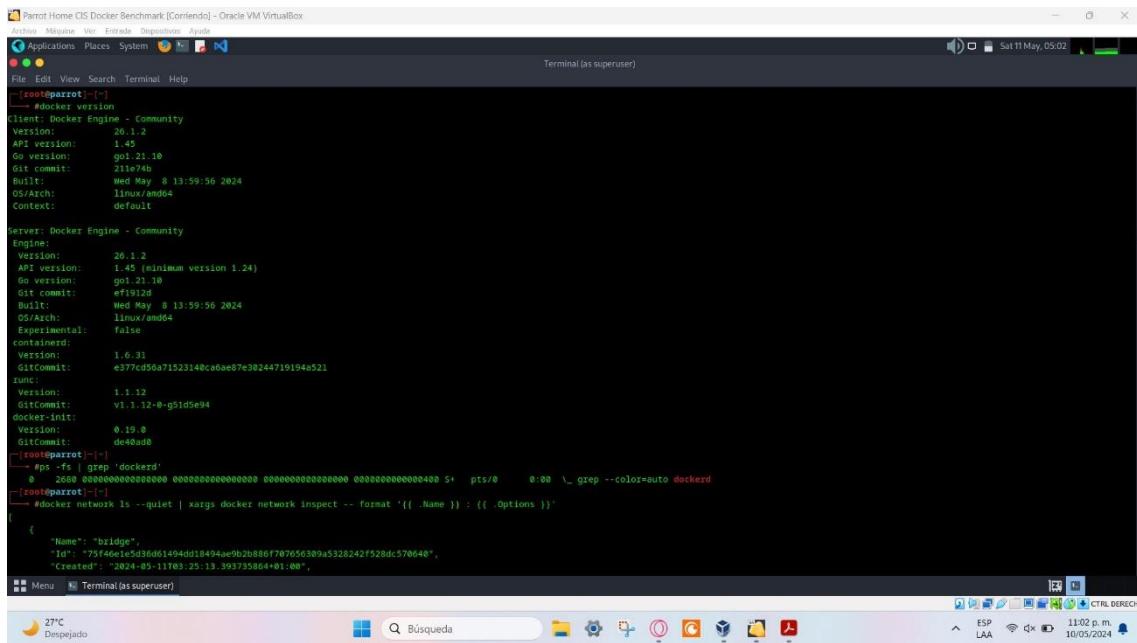
## This determine how long to wait in burst of events
#-backlog_wait_time 00000

## Set failure mode to syslog
#F 1

# /usr/bin/dockerd -k docker
# exit_always -F path=/run/containerd -F perm=war -k docker
# exit_always -F path=/var/lib/docker -F perm=war -k docker
# /etc/docker -k docker
# /usr/lib/systemd/system/docker.service -k docker
# /run/containerd.sock -k docker
# /var/run/docker.sock -k docker
# /etc/docker/daemon.json -k docker
# /etc/containerd/config.toml -k docker
# /etc/containerd/conf.d/default.toml -k docker
# /usr/bin/containerd -k docker
# /usr/bin/containerd-shim -k docker
# /usr/bin/containerd-shim-runc-v1 -k docker
# /usr/bin/containerd-shim-runc-v2 -k docker
# /usr/bin/runc -k docker

# Help   Read File Replace Cut Paste Go To Line Undo Redo Copy Where Was Set Mark To Bracket Read 28 Lines! Previous Next Forward Next Word Home End Prev Line
# Exit Where Is Cut Paste Go To Line Undo Redo Copy Where Was Set Mark To Bracket Read 28 Lines! Previous Next Forward Next Word Home End Prev Line
# Menu Terminal (as superuser)
```

2. CONFIGURACION DE DOCKER DAEMON



```
[root@parrot:~]
--> #docker version
Client: Docker Engine - Community
  Version:           21.1.2
  API version:      1.45
  Go version:       go1.21.10
  Git commit:       311e74b
  Built:            Wed May  8 13:59:56 2024
  OS/Arch:          linux/amd64
  Context:          default

Server: Docker Engine - Community
  Engine:
    Version:          26.1.2
    API version:     1.45 [minimum version 1.24]
    Go version:      go1.21.10
    Git commit:      eef912d
    Built:           Wed May  8 13:59:56 2024
    OS/Arch:          linux/amd64
    Experimental:    false
  containerd:
    Version:          1.6.31
    GitCommit:        e937cd56a71523140caeae87e30244719194a521
    Docker:           26.1.2
    System:           1.1.12
    GitCommit:        v1.1.12-0-g51d5e94
  docker-init:
    Version:          0.19.0
    GitCommit:        d6e48a0
[root@parrot:~]
[~]# ps -ef | grep 'dockerd'
root  2800  0000000000000000 0000000000000000 0000000000000000400 S+   pts/0    0:00  \_ grep --color=auto dockerd
[root@parrot:~]
--> #docker network ls --quiet | xargs docker network inspect -- format '{{ .Name }} : {{ .Options }}'
{
  {
    "Name": "bridge",
    "Id": "75f46e1e5d6d6194dd10494ae9b2b886f70765650a5328242f528dc570640",
    "Created": "2024-05-11T03:25:13.393735864+01:00",
    "Options": {}
  }
}

# Help   Read File Replace Cut Paste Go To Line Undo Redo Copy Where Was Set Mark To Bracket Read 28 Lines! Previous Next Forward Next Word Home End Prev Line
# Exit Where Is Cut Paste Go To Line Undo Redo Copy Where Was Set Mark To Bracket Read 28 Lines! Previous Next Forward Next Word Home End Prev Line
# Menu Terminal (as superuser)
```

```
Parrot Home CIS Docker Benchmark [Corriendo] - Oracle VM VirtualBox
File Edit View Search Terminal Help
[root@parrot:~]
└─# docker network ls --quiet | xargs docker network inspect -- format '{{ .Name }} : {{ .Options }}'
[
  {
    "Name": "bridge",
    "Id": "73f4d15506051494dd28494e9b208007707656309a5322242f528dc570640",
    "Scope": "local",
    "Driver": "bridge",
    "EnableIPv6": false,
    "IPAM": {
      "Driver": "default",
      "Options": null,
      "Config": [
        {
          "Subnet": "172.17.0.0/16",
          "Gateway": "172.17.0.1"
        }
      ],
      "Internal": false,
      "Attachable": false,
      "Ingress": false,
      "Configuration": {}
    },
    "Network": {},
    "ConfigOnly": false,
    "Containers": {},
    "Options": {
      "com.docker.network.bridge.default_bridge": "true",
      "com.docker.network.bridge.enable_icc": "true",
      "com.docker.network.bridge.enable_ip_masquerade": "true",
      "com.docker.network.bridge.name": "dockercfg",
      "com.docker.network.driver.mtu": "1500"
    },
    "Labels": {}
  }
]
[Menu] Terminal (as superuser)
27°C Despejado
Búsqueda
ESP LAA 11:02 p. m. 10/05/2024 CTR. DERECHA
```

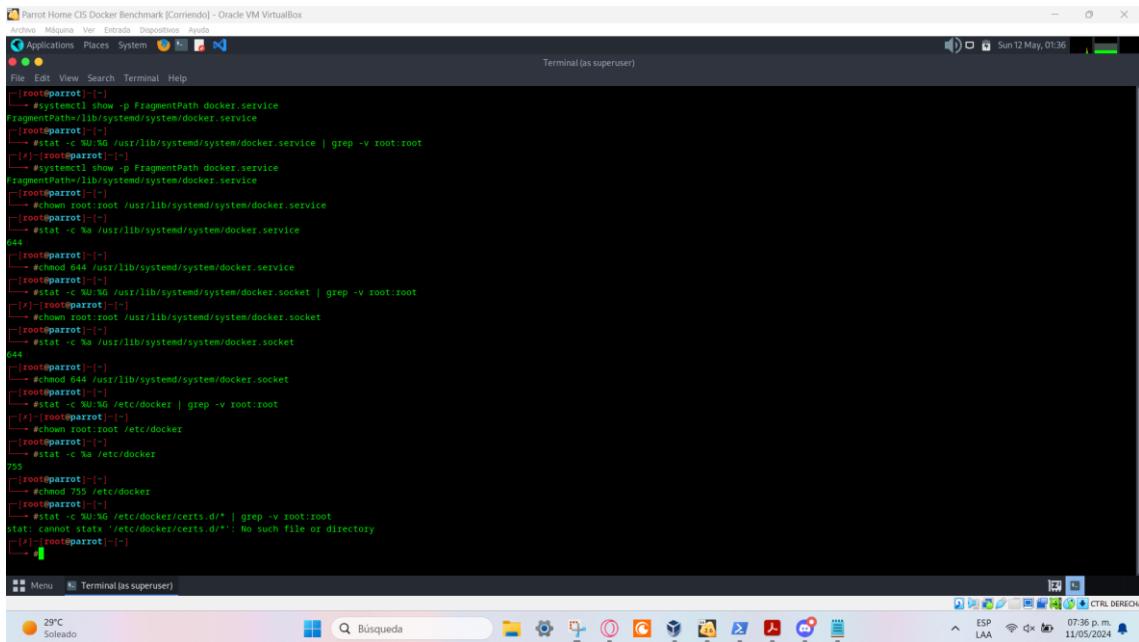
```
Parrot Home CIS Docker Benchmark [Corriendo] - Oracle VM VirtualBox
File Edit View Search Terminal Help
[root@parrot:~]
└─# ps -ef | grep dockerd
root   748  1  0 03:24 ? 00:00:08 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock
root   2763 2162  0 05:07 pts/0 00:00:00 grep --color=auto dockerd
[root@parrot:~]
└─# dockerd --log-level="info"
INFO[2024-05-11T05:08:03.872071Z+01:00] Starting up
failed to start daemon, ensure docker is not running or delete /var/run/docker.pid: process with PID 748 is still running
└─(4)-[root@parrot:~]
└─# dockerd --iptables=false
INFO[2024-05-11T05:08:03.872071Z+01:00] Starting up
failed to start daemon, ensure docker is not running or delete /var/run/docker.pid: process with PID 748 is still running
└─(4)-[root@parrot:~]
└─# docker info --format 'Insecure Registries: {{.RegistryConfig.InsecureRegistryCIDs}}'
INSECURE_REGISTRIES:
tmpfile: failed to calculate "" at < RegistryConfig.InsecureRegistryCIDs >; can't evaluate field RegistryConfig in type system.dockerInfo
└─(4)-[root@parrot:~]
└─# docker info --format 'Storage Driver: {{.Driver}}'
storage driver: overlay2
└─(4)-[root@parrot:~]
└─# dockerd --storage-driver aufs
INFO[2024-05-11T05:10:19.220592572+01:00] Starting up
failed to start daemon, ensure docker is not running or delete /var/run/docker.pid: process with PID 748 is still running
└─(4)-[root@parrot:~]
└─# ps -ef | grep dockerd
root   748  1  0 03:24 ? 00:00:09 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock
root   2881 2162  0 05:10 pts/0 00:00:00 grep --color=auto dockerd
[root@parrot:~]
└─# dockerd --default-ulimit nproc=1024:2048 --default-ulimit nofile=100:200
INFO[2024-05-11T05:11:28.238260187+01:00] Starting up
failed to start daemon, ensure docker is not running or delete /var/run/docker.pid: process with PID 748 is still running
└─# docker inspect --format='{{.State.Pid}}' $(docker ps -q) | while read -r line; do ps -h -p "$line" -o pid,user; done
docker inspect requires at least 1 argument.
See 'docker inspect --help'.
Usage: docker inspect [OPTIONS] NAME|ID [NAME|ID...]
Return low-level information on Docker objects
[Menu] Terminal (as superuser)
27°C Despejado
Búsqueda
ESP LAA 11:14 p. m. 10/05/2024 CTR. DERECHA
```

```
Parrot Home CIS Docker Benchmark [Corriendo] - Oracle VM VirtualBox
File Edit View Search Terminal Help
[root@parrot:~]
└── #dockerd --usersm-remap=default
INFO[2024-05-11T05:23:56.278001087+01:00] User namespaces: ID ranges will be mapped to subuid/subgid ranges of: dockxmap
INFO[2024-05-11T05:23:56.279649823+01:00] Starting up
INFO[2024-05-11T05:23:56.280598459+01:00] User namespaces: ID ranges will be mapped to subuid/subgid ranges of: dockxmap
failed to start daemon, ensure docker is not running or delete /var/run/docker.pid: process with PID 748 is still running
└─#ps -ef | grep dockerd
root 748 1 0 03:24 ? 00:00:09 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock
root 3198 2102 0 05:23 pts/0 00:00:00 grep --color=auto dockerd
└─#root@parrot:~/
└── #docker info --format '{{ .LoggingDriver }}'
json-file
└─#root@parrot:~/
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
inet 127.0.0.1/8 scope host lo
    valid_lft forever preferred_lft forever
inet6 ::1/128 scope host noprefixroute
    valid_lft forever preferred_lft forever
2: empb53: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
link/ether 00:0c:29:5b:c5:56 brd ff:ff:ff:ff:ff:ff
inet 192.168.0.1/24 brd 192.168.0.255 scope global docker0
    valid_lft 79107sec preferred_lft 79107sec
inet6 fe00::1/128 scope link noprefixroute
    valid_lft forever preferred_lft forever
3: docker0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN group default
link/ether 02:42:01:0e:85:e0 brd ff:ff:ff:ff:ff:ff
inet 172.17.0.1/16 brd 172.17.255.255 scope global docker0
    valid_lft forever preferred_lft forever
inet6 fe80::42:1ff:fe85:e0/64 scope link
    valid_lft forever preferred_lft forever
└─#root@parrot:~/
└── #dockerd --log-driver=syslog --log-opt syslog-address=tcp://192.168.0.5
INFO[2024-05-11T05:27:41.578051892+01:00] Starting up
failed to start daemon, ensure docker is not running or delete /var/run/docker.pid: process with PID 748 is still running
└─#root@parrot:~/
└── #
```

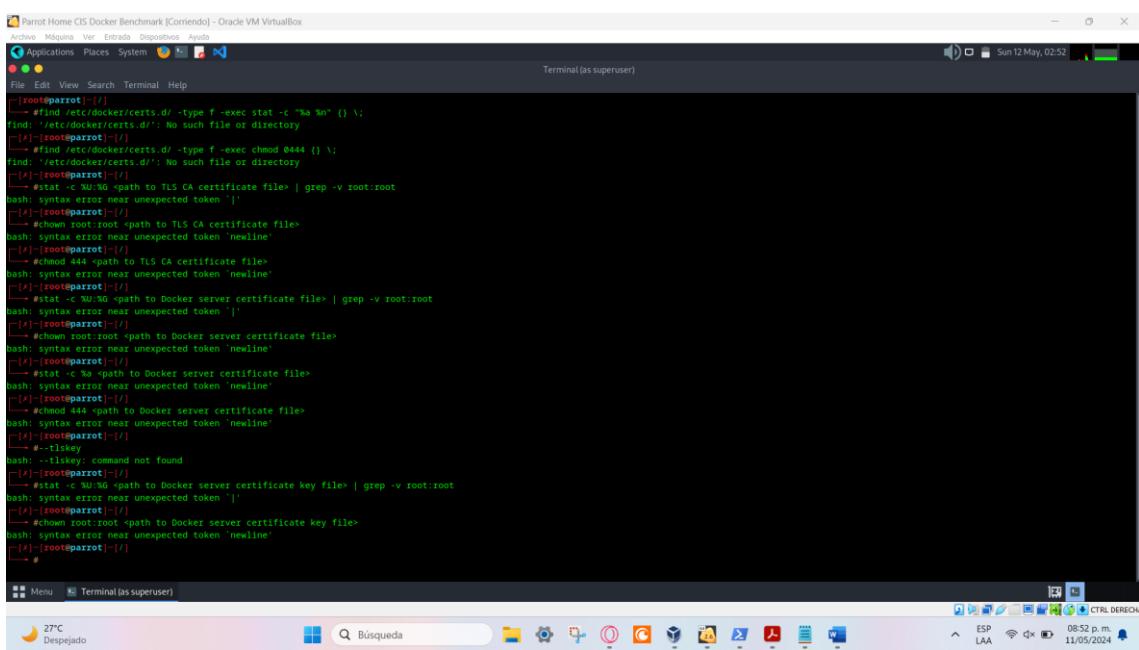
```
Parrot Home CIS Docker Benchmark [Corriendo] - Oracle VM VirtualBox
File Edit View Search Terminal Help
[root@parrot:~]
└── #ps -ef | grep dockerd
root 748 1 0 03:24 ? 00:00:10 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock
root 3245 2102 0 05:24 pts/0 00:00:00 grep --color=auto dockerd
└─#root@parrot:~/
└── #dockerd --no-new-privileges
INFO[2024-05-11T05:28:35.841926517+01:00] Starting up
failed to start daemon, ensure docker is not running or delete /var/run/docker.pid: process with PID 748 is still running
└─#root@parrot:~/
└── #docker info --format '{{ .LiveRestoreEnabled }}'
false
└─#root@parrot:~/
└── #dockerd --live-restore
INFO[2024-05-11T05:29:24.340277233+01:00] Starting up
failed to start daemon, ensure docker is not running or delete /var/run/docker.pid: process with PID 748 is still running
└─#root@parrot:~/
└── #dockerd --userland-proxyfalse
INFO[2024-05-11T05:29:44.275346973+01:00] Starting up
failed to start daemon, ensure docker is not running or delete /var/run/docker.pid: process with PID 748 is still running
└─#root@parrot:~/
└── #docker info --format '{{ .SecurityOptions }}'
{name=apparmor name=seccomp,profile=builtin name=cgroups}
└─#root@parrot:~/
└── #dockerd --seccomp-profile </path/to/seccomp/profile>
bash: syntax error: unexpected token `newline'
└─#root@parrot:~/
└── #docker info --format '{{ .Server.Experimental }}'

Template: <1>10: executing `` at <.Server.Experimental>: can't evaluate field Server in type system.dockerInfo
└─#root@parrot:~/
└── #
```

3. ARCHIVOS DE CONFIGURACIÓN DEL DEMONIO DOCKER



```
[root@parrot:~]
└─# ls -l /lib/systemd/system/docker.service
-rw-r--r-- 1 root root 369 Jun 19  2023 /lib/systemd/system/docker.service
└─# stat -c %U:%G /usr/lib/systemd/system/docker.service | grep -v root:root
[root@parrot:~]
└─# systemctl show -p FragmentPath docker.service
FragmentPath=/lib/systemd/system/docker.service
└─# stat -c %U:%G /usr/lib/systemd/system/docker.socket | grep -v root:root
[root@parrot:~]
└─# chown root:root /usr/lib/systemd/system/docker.socket
└─# stat -c %U:%G /usr/lib/systemd/system/docker.socket | grep -v root:root
[root@parrot:~]
└─# chmod 644 /usr/lib/systemd/system/docker.socket
└─# stat -c %U:%G /etc/docker | grep -v root:root
[root@parrot:~]
└─# chown root:root /etc/docker
└─# stat -c %U:%G /etc/docker | grep -v root:root
[root@parrot:~]
└─# chmod 755 /etc/docker
└─# stat -c %U:%G /etc/docker/certs.d/* | grep -v root:root
stat: cannot stat '/etc/docker/certs.d/*': No such file or directory
[root@parrot:~]
└─#
```

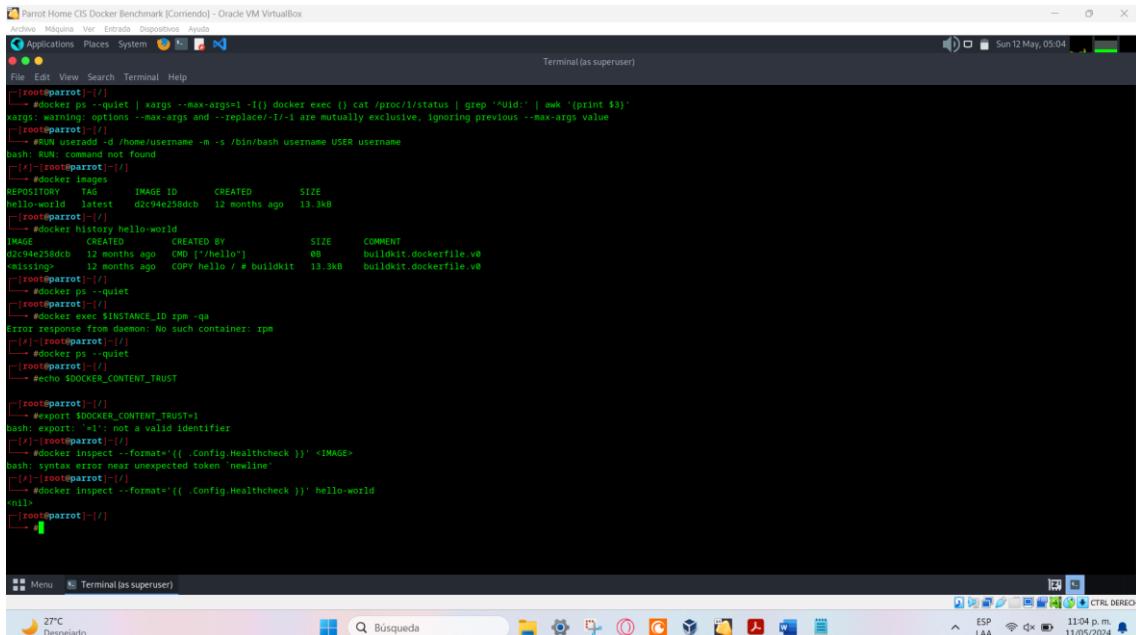


```
[root@parrot:~]
└─# find /etc/docker/certs.d/ -type f -exec stat -c "%a %n" {} \;
find: '/etc/docker/certs.d/': No such file or directory
└─# ls -l /etc/docker/certs.d/
ls: /etc/docker/certs.d/: No such file or directory
└─# stat -c %U:%G /etc/docker/certs.d/* | grep -v root:root
[root@parrot:~]
└─# chmod 644 /etc/docker/certs.d/* | grep -v root:root
[root@parrot:~]
└─# stat -c %U:%G /path to TLS CA certificate file | grep -v root:root
stat: syntax error near unexpected token '
[root@parrot:~]
└─# chown root:root /path to TLS CA certificate file
stat: syntax error near unexpected token newline'
[root@parrot:~]
└─# stat -c %U:%G /path to Docker server certificate file | grep -v root:root
stat: syntax error near unexpected token '
[root@parrot:~]
└─# chown root:root /path to Docker server certificate file
stat: syntax error near unexpected token newline'
[root@parrot:~]
└─# stat -c %U:%G /path to Docker server certificate key file | grep -v root:root
stat: syntax error near unexpected token '
[root@parrot:~]
└─# chown root:root /path to Docker server certificate key file
stat: syntax error near unexpected token newline'
[root@parrot:~]
└─#
```

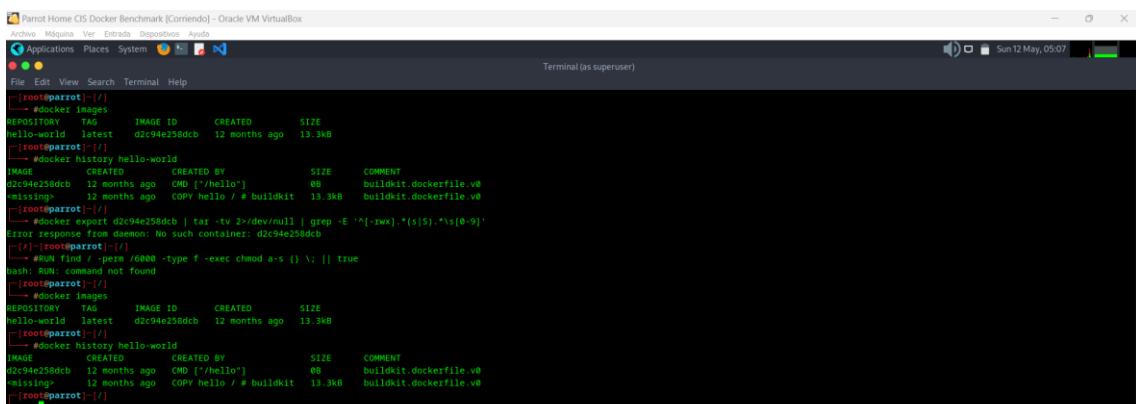
```
Parrot Home CIS Docker Benchmark [Corriendo] - Oracle VM VirtualBox
File Edi View Search Terminal Help
[|root@parrot|~]
└→ #stat -c %a /path to Docker server certificate key file
bash: syntax error near unexpected token `newline'
[|x|root@parrot|~|]
└→ #chmod 400 /path to Docker server certificate key file
bash: syntax error near unexpected token `newline'
[|x|root@parrot|~|]
└→ #stat -c %a /var/run/docker.sock | grep -v root:root
[|x|root@parrot|~|]
└→ #chown root:root /var/run/docker.sock
[|root@parrot|~|]
└→ #stat -c %a /var/run/docker.sock
de9
[|root@parrot|~|]
└→ #ls /var/run/docker.sock
[|root@parrot|~|]
└→ #stat -c %U:%G /etc/docker/daemon.json | grep -v root:root
stat: cannot stat '/etc/docker/daemon.json': No such file or directory
[|x|root@parrot|~|]
└→ #chown root:root /etc/docker/daemon.json
chown: cannot access '/etc/docker/daemon.json': No such file or directory
[|x|root@parrot|~|]
└→ #chown root:root /etc/docker/daemon.json
chown: cannot access '/etc/docker/daemon.json': No such file or directory
[|x|root@parrot|~|]
└→ #stat -c %a /etc/docker/daemon.json | grep -v root:root
stat: cannot stat '/etc/docker/daemon.json': No such file or directory
[|x|root@parrot|~|]
└→ #chmod 644 /etc/docker/daemon.json
chmod: cannot access '/etc/docker/daemon.json': No such file or directory
[|x|root@parrot|~|]
└→ #stat -c %U:%G /etc/default/docker | grep -v root:root
stat: cannot stat '/etc/default/docker': No such file or directory
[|x|root@parrot|~|]
└→ #chown root:root /etc/default/docker
[|root@parrot|~|]
└→ #
```

```
Parrot Home CIS Docker Benchmark [Corriendo] - Oracle VM VirtualBox
File Edi View Search Terminal Help
[|root@parrot|~]
└→ #stat -c %a /etc/default/docker
de4
[|root@parrot|~|]
└→ #chmod 644 /etc/default/docker
[|root@parrot|~|]
└→ #stat -c %a /etc/sysconfig/docker
stat: cannot stat '/etc/sysconfig/docker': No such file or directory
[|x|root@parrot|~|]
└→ #chmod 644 /etc/sysconfig/docker
chmod: cannot access '/etc/sysconfig/docker': No such file or directory
[|x|root@parrot|~|]
└→ #stat -c %U:%G /etc/sysconfig/docker | grep -v root:root
stat: cannot stat '/etc/sysconfig/docker': No such file or directory
[|x|root@parrot|~|]
└→ #chown root:root /etc/sysconfig/docker
chown: cannot access '/etc/sysconfig/docker': No such file or directory
[|x|root@parrot|~|]
└→ #stat -c %U:%G /run/containerd/containerd.sock | grep -v root:root
[|x|root@parrot|~|]
└→ #chown root:root /run/containerd/containerd.sock
[|root@parrot|~|]
└→ #stat -c %a /run/containerd/containerd.sock
de9
[|root@parrot|~|]
└→ #chmod 600 /run/containerd/containerd.sock
[|root@parrot|~|]
└→ #
```

4. IMÁGENES DE CONTENEDOR Y CONFIGURACIÓN DE ARCHIVOS DE COMPILACIÓN



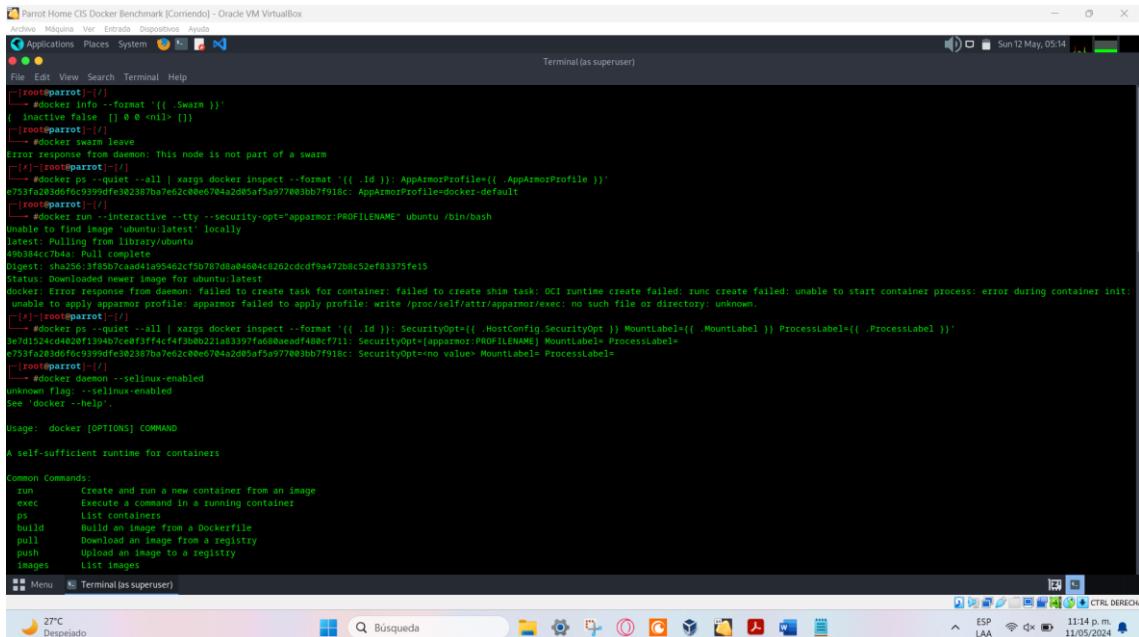
```
[root@parrot:~]# docker ps --quiet | xargs --max-args=1 -I{} docker exec {} cat /proc/1/status | grep '^Uid:' | awk '{print $3}'  
vargs and options --max-args and --replace/-I/-i are mutually exclusive. ignoring previous --max-args value  
[root@parrot:~]# [root@parrot:~]# useradd -d /home/username -m -s /bin/bash username USER=username  
bash: RUN command not found  
[root@parrot:~]# --> docker images  
REPOSITORY TAG IMAGE ID CREATED SIZE  
hello-world latest d1c94e258db 12 months ago 13.3kB  
[root@parrot:~]# --> docker history hello-world  
IMAGE CREATED CREATED BY SIZE COMMENT  
d1c94e258db 12 months ago CMD ["/hello"] 0B buildkit.dockerfile.v0  
missing: 12 months ago COPY hello / # buildkit 13.3kB buildkit.dockerfile.v0  
[root@parrot:~]# --> docker ps --quiet  
[root@parrot:~]# --> docker exec $INSTANCE_ID rpm -q8  
Error response from daemon: No such container: rpm  
[root@parrot:~]# --> docker ps --quiet  
[root@parrot:~]# --> echo $DOCKER_CONTENT_TRUST  
[root@parrot:~]# --> export $DOCKER_CONTENT_TRUST=1  
bash: export: '+1': not a valid identifier  
[root@parrot:~]# --> docker inspect --format='{{ .Config.Healthcheck }}' <IMAGE>  
bash: syntax error near unexpected token newline'  
[root@parrot:~]# --> docker inspect --format='{{ .Config.Healthcheck }}' hello-world  
null  
[root@parrot:~]# -->
```



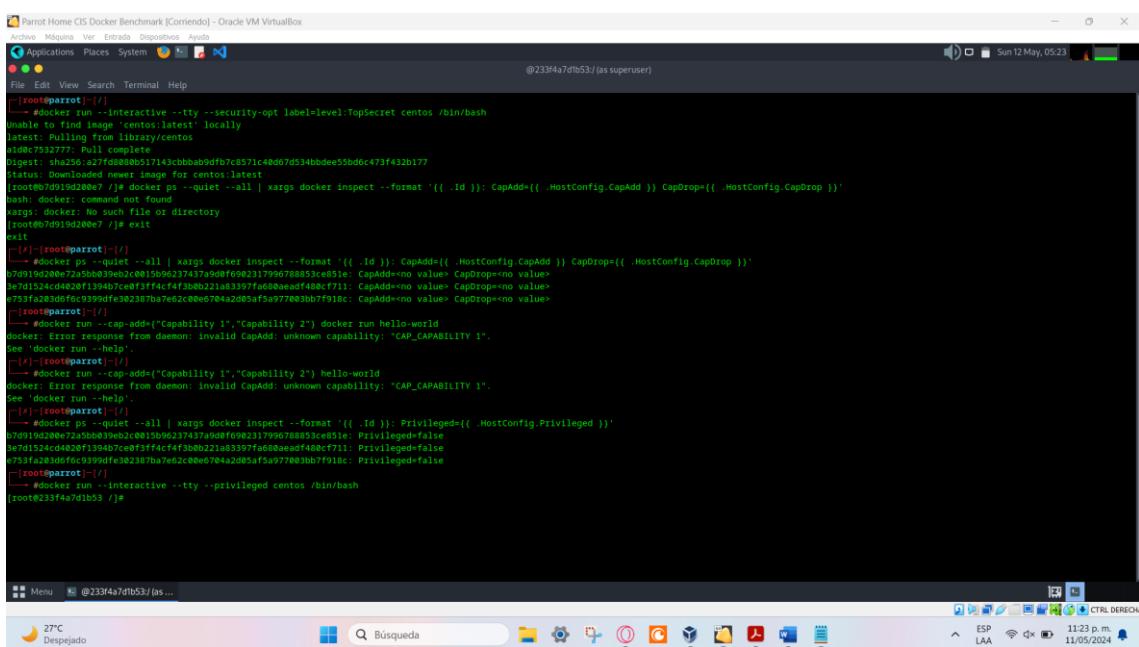
```
[root@parrot:~]# --> docker images  
REPOSITORY TAG IMAGE ID CREATED SIZE  
hello-world latest d1c94e258db 12 months ago 13.3kB  
[root@parrot:~]# --> docker history hello-world  
IMAGE CREATED CREATED BY SIZE COMMENT  
d1c94e258db 12 months ago CMD ["/hello"] 0B buildkit.dockerfile.v0  
missing: 12 months ago COPY hello / # buildkit 13.3kB buildkit.dockerfile.v0  
[root@parrot:~]# --> docker export d1c94e258db | tar -tv >/dev/null | grep -E '^[-rwx].*(s|S).*(s|S){0,9}'  
Error response from daemon: No such container: d1c94e258db  
[root@parrot:~]# --> chmod 6000 /etc/hosts /etc/resolv.conf  
bash: RUN command not found  
[root@parrot:~]# --> docker images  
REPOSITORY TAG IMAGE ID CREATED SIZE  
hello-world latest d1c94e258db 12 months ago 13.3kB  
[root@parrot:~]# --> docker history hello-world  
IMAGE CREATED CREATED BY SIZE COMMENT  
d1c94e258db 12 months ago CMD ["/hello"] 0B buildkit.dockerfile.v0  
missing: 12 months ago COPY hello / # buildkit 13.3kB buildkit.dockerfile.v0  
[root@parrot:~]# -->
```



5. CONFIGURACIÓN DEL TIEMPO DE EJECUCIÓN DEL CONTENEDOR



```
[root@parrot:~]# docker run -it --rm centos /bin/bash
[...]
[root@parrot:~]# docker run -it --rm centos /bin/bash
[...]
[root@parrot:~]# docker run -it --rm centos /bin/bash
[...]
```



```
[root@parrot:~]# docker run -it --rm centos /bin/bash
[...]
[root@parrot:~]# docker run -it --rm centos /bin/bash
[...]
[root@parrot:~]# docker run -it --rm centos /bin/bash
[...]
```

```
Parrot Home CIS Docker Benchmark [Corriendo] - Oracle VM VirtualBox
File Edt View Search Terminal Help
[root@parrot:~]
└── # docker ps --quiet --all | xargs docker inspect --format '{{ .Id }}: Volumes={{ .Mounts }}'
133fa7a01b535e09b5015fdbfa7738471631a087c7385126929c8d88ab08 Volumes={}
07d919d20be72a5b0e39eb0c8015b96237437a0dbf69231799678853ce851e Volumes={}
1e7d1524c0480f139407ce0ff4fc4f4730b0221a3397fa080eaef48bc7711 Volumes={}
e533fb23d06f6c9399df0e302387ba02c0e0670e4a2de5a159977e63b07f910c Volumes={}

[1:root@parrot:~]
└── # docker ps --quiet
[1:root@parrot:~]
└── # docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu latest bf3dc80ffed0 12 days ago 70.2MB
hello-world latest d2c94e258dbc 12 months ago 13.3kB
centos latest 5080da3ec9764 2 years ago 231MB

[1:root@parrot:~]
└── # docker exec d2c94e258dbc ps -el
Error response from daemon: No such container: d2c94e258dbc
[1:root@parrot:~]
└── # docker exec --interactive --tty d2c94e258dbc sh
Error response from daemon: No such container: d2c94e258dbc
[1:root@parrot:~]
└── # docker attach d2c94e258dbc
Error response from daemon: No such container: d2c94e258dbc
[1:root@parrot:~]
└── # docker ps --quiet | xargs docker inspect --format '{{ .Id }}: Ports={{ .NetworkSettings.Ports }}'
'Docker inspect' requires at least 1 argument.
See 'docker inspect --help'.

Usage: docker inspect [OPTIONS] NAME|ID [NAME|ID...]

Return low-level information on Docker objects
[1:root@parrot:~]
└── # docker inspect --all | xargs docker inspect --format '{{ .Id }}: Ports={{ .NetworkSettings.Ports }}'
'Docker inspect' requires at least 1 argument.
See 'docker inspect --help'.

Usage: docker inspect [OPTIONS] NAME|ID [NAME|ID...]

Return low-level information on Docker objects
[1:root@parrot:~]
└── # Menu @604929a86/ (as...[1:root@parrot:~]
└── 27°C Despejado
[1:root@parrot:~]
└── # Búsqueda
[1:root@parrot:~]
└── # Sun 12 May, 05:29
[1:root@parrot:~]
└── # CTRL DERECHA
[1:root@parrot:~]
└── # ESP LAA
[1:root@parrot:~]
└── # 11:29 p. m.
[1:root@parrot:~]
└── # 11/05/2024
```

```
Parrot Home CIS Docker Benchmark [Corriendo] - Oracle VM VirtualBox
Archivo Móvil Vie Entrada Dispositivos Ayuda
Applications Places System 🌐 🌐 🌐
File Edt View Search Terminal Help
[1:root@parrot:~]
└── # docker run --interactive --tty --publish 5000 --publish 5001 --publish 5002 centos /bin/bash
[root@2d5710056878 ~]# exit
exit
[1:root@parrot:~]
└── # docker ps --quiet --all | xargs docker inspect --format '{{ .Id }}: NetworkMode={{ .HostConfig.NetworkMode }}'
203f423af600e080535952cc788bf9d0ca6e095b NetworkMode=bridge
133fa7a01b535e09b5015fdbfa7738471631a087c7385126929c8d88ab08 NetworkMode=bridge
1e7d1524c0480f139407ce0ff4fc4f4730b0221a3397fa080eaef48bc7711 NetworkMode=bridge
07d919d20be72a5b0e39eb0c8015b96237437a0dbf69231799678853ce851e NetworkMode=bridge
1e7d1524c0480f139407ce0ff4fc4f4730b0221a3397fa080eaef48bc7711 NetworkMode=bridge
e533fb23d06f6c9399df0e302387ba02c0e0670e4a2de5a159977e63b07f910c NetworkMode=bridge
[1:root@parrot:~]
└── # docker ps --quiet --all | xargs docker inspect --format '{{ .Id }}: Memory={{ .HostConfig.Memory }}'
1e5710056878d3e595f2cc788bf9d0ca6e095b1d0b695a1de06c Memory=8
133fa7a01b535e09b5015fdbfa7738471631a087c7385126929c8d88ab08 Memory=8
1e7d1524c0480f139407ce0ff4fc4f4730b0221a3397fa080eaef48bc7711 Memory=8
07d919d20be72a5b0e39eb0c8015b96237437a0dbf69231799678853ce851e Memory=8
1e7d1524c0480f139407ce0ff4fc4f4730b0221a3397fa080eaef48bc7711 Memory=8
e533fb23d06f6c9399df0e302387ba02c0e0670e4a2de5a159977e63b07f910c Memory=8
[1:root@parrot:~]
└── # docker run -d -memory 256 centos sleep 1000
[1:root@parrot:~]
└── # Memory=1249c0dd9e28275367490ba095b2a166e167d309a
[1:root@parrot:~]
└── # docker inspect --format='{{ .Id }}: Memory={{ .HostConfig.Memory }} KernelMemory={{ .HostConfig.KernelMemory }} Swap={{ .HostConfig.MemorySwap }}' d2c94e258dbc
Template parsing error: template: `:1:11: executing `` at <.HostConfig.Memory>: Map has no entry for key `HostConfig`'
[1:root@parrot:~]
└── # docker ps --quiet --all | xargs docker inspect --format '{{ .Id }}: CpuShares={{ .HostConfig.CpuShares }}'
1e5710056878d3e595f2cc788bf9d0ca6e095b1d0b695a1de06c CpuShares=0
203f423af600e080535952cc788bf9d0ca6e095b1d0b695a1de06c CpuShares=0
ce4929af86e0e39969909835e05b1f11c443fc741a24267512e7419794 CpuShares=0
133fa7a01b535e09b5015fdbfa7738471631a087c7385126929c8d88ab08 CpuShares=0
1e7d1524c0480f139407ce0ff4fc4f4730b0221a3397fa080eaef48bc7711 CpuShares=0
e533fb23d06f6c9399df0e302387ba02c0e0670e4a2de5a159977e63b07f910c CpuShares=0
[1:root@parrot:~]
└── #
```

```
Parrot Home CIS Docker Benchmark [Corriendo] - Oracle VM VirtualBox
File Edit View Search Terminal Help
@6fd6e7cd84d:(as superuser)
[root@parrot:~]
└-- # docker run -d --cpu-shares 512 centos sleep 1000
0b7355099426e9cad0ba5acd12fcdd01ff25739fcad0dd3dc3faf0b08c9001af
[root@parrot:~]
└-- # docker ps --quiet --all | xargs docker inspect --format='{{ .Id }}' | ReadonlyRootfs=( .HostConfig.ReadonlyRootfs )
0b7355099426e9cad0ba5acd12fcdd01ff25739fcad0dd3dc3faf0b08c9001af: ReadonlyRootfs=false
0e5d55acd2ce362f46c1349bb06e383235730574390ea895623166de167d39809a: ReadonlyRootfs=false
2b57100568783e3595f2ccf788f9dd68feeedfbcaed087d100d69591a1de6c: ReadonlyRootfs=false
0ff40292fa86e03996909990835ee8bd0f11c443fc7a1d42875121e1741794: ReadonlyRootfs=false
23f4a741b0538e5905b15fdbfa7738471631aa8c7f3851269298d88abb0e: ReadonlyRootfs=false
07e919d20ee72a5080396e2b0815096237437979d08f62171996788853c5e51e: ReadonlyRootfs=false
3e7d1524c4402ef1399407e8ff4f43b0e221a33977fa080eaudf486cf711: ReadonlyRootfs=false
e7337a203d0f3999dfe3023870b74762c08e6704e2020859f5a9770083077910c: ReadonlyRootfs=false
[root@parrot:~]
└-- # docker ps --quiet --read-only | xargs docker start
10df941289432151ecdbbd079aa855237e41ba8ff1dd0bfad0faca02c708
docker: Error response from daemon: failed to create task for container: failed to create shim task: OCI runtime create failed: runc create failed: unable to start container process: exec: "docker": executable file not found in PATH; unknown.
[root@parrot:~]
└-- # docker run -i -t --interactive --tty --read-only --tmpfs "/run" --tmpfs "/tmp" centos /bin/bash
[root@50296578838b:~]# exit
exit
[root@parrot:~]
└-- # docker run -i -t --interactive --tty --read-only -v /opt/app/data:/run/app/data:rw centos /bin/bash
1coot00f1d06e7cd844:~]# exit
bash: exit: command not found
[root@6fd6e7cd84d:~]# exit
exit
[root@parrot:~]
└-- # docker volume create -d convoy --opt o+size=20GB my-named-volume docker run --interactive --tty --read-only -v my-named-volume:/run/app/data centos /bin/bash
unknown flag: --interactive
usage: docker volume create [OPTIONS] [NAME]
[root@parrot:~]
└-- # docker ps --quiet | xargs docker inspect --format='{{ .Id }}: Ports={{ .NetworkSettings.Ports }}'
0b7355099426e9cad0ba5acd12fcdd01ff25739fcad0dd3dc3faf0b08c9001af: Ports={}
0e5d55acd2ce362f46c1349bb06e383235730574390ea895623166de167d39809a: Ports={}
[root@parrot:~]
└-- #
```

```
Parrot Home CIS Docker Benchmark [Corriendo] - Oracle VM VirtualBox
File Edit View Search Terminal Help
@6fd6e7cd84d:(as superuser)
[root@parrot:~]
└-- # docker run -d --detach --publish 10.2.3.4:49153:80 nginx
Unable to find image: 'nginx:latest': locally
listest: Pulling from library/nginx
0eabcfa59b12: Pull complete
4b84de5f0b62: Pull complete
Digest: sha256:32c76044f34780e479964a0fbdc5b1a6970b5322c8d084e9cf0cb01c93510766
Status: Downloaded newer image for nginx: latest
279049d949d0a096d3ed0a0d20f5d5ff72e42fdec17692ea9413b598
docker: Error response from daemon: driver failed programming external connectivity on endpoint nifty_lumiere (fadbf2facdbd27481a0fa95655541c8a244a1bfff17bd2a848c8b040deb066d): Error starting userland proxy: listen tcp 10.2.3.4:49153: bind: cannot respond to address.
[root@parrot:~]
└-- # docker ps --quiet --all | xargs docker inspect --format='{{ .Id }}' | RestartPolicyName=( .HostConfig.RestartPolicy.Name ) MaximumRetryCount=( .HostConfig.RestartPolicy.MaximumRetryCount )'
279049d949d0a096d3ed0a0d20f5d5ff72e42fdec17092xa01b598: RestartPolicyName=no MaximumRetryCount=0
77a0076ec760b1c8882c8c579fa596d93b720a067f797a7bb835f0e47161a996: RestartPolicyName=no MaximumRetryCount=0
05e0fbba0ccc47be88de4526050f7522492f0bf97d191bb373f3296c7950: RestartPolicyName=no MaximumRetryCount=0
0f1d6e7d84dc5b618759862243724b7e282709969e9a7345f667c95906c: RestartPolicyName=no MaximumRetryCount=0
5d2957883008196151a1f8e3231b9d03d2672c12810ffeb84e71979d09: RestartPolicyName=no MaximumRetryCount=0
7d9f41289432151ec00d1879a8585227741a95f1d0bdfad0fca6d2c796: RestartPolicyName=no MaximumRetryCount=0
7d9f41289432151ec00d1879a8585227741a95f1d0bdfad0fca6d2c796: RestartPolicyName=no MaximumRetryCount=0
4b84de5f0b62: RestartPolicyName=no MaximumRetryCount=0
4b84de5f0b62: RestartPolicyName=no MaximumRetryCount=0
4b84de5f0b62: RestartPolicyName=no MaximumRetryCount=0
2b57100568783e3595f2ccf788f9dd68feeedfbcaed087d100d69591a1de6c: RestartPolicyName=no MaximumRetryCount=0
0ff40292fa86e03996909990835ee8bd0f11c443fc7a1d42875121e1741794: RestartPolicyName=no MaximumRetryCount=0
23f4a741b0538e5905b15fdbfa7738471631aa8c7f3851269298d88abb0e: RestartPolicyName=no MaximumRetryCount=0
07e919d20ee72a5080396e2b0815096237437979d08f62171996788853c5e51e: RestartPolicyName=no MaximumRetryCount=0
3e7d1524c4402ef1399407e8ff4f43b0e221a33977fa080eaudf486cf711: RestartPolicyName=no MaximumRetryCount=0
e7337a203d0f3999dfe3023870b74762c08e6704e2020859f5a9770083077910c: RestartPolicyName=no MaximumRetryCount=0
[root@parrot:~]
└-- # docker run -d --detach --restart-on-failure=5 nginx
51790d21bc01a03547a1509e0285f9a0e71b33ccx01d50536018251f7bad2
[root@parrot:~]
└-- #
```

```

Parrot Home CIS Docker Benchmark [Corriendo] - Oracle VM VirtualBox
File Edad View Search Terminal Help
[|root@parrot|] ~
└-- docker run -p1234 host rhei1 strace -p 1234
Unable to find image 'rhei1:latest' locally
docker: Error response from daemon: pull access denied for rhei1, repository does not exist or may require 'docker login': denied: requested access to the resource is denied.
See 'docker run --help'.
[|root@parrot|] ~
└-- docker ps -a
[|root@parrot|] ~
└-- docker inspect --all | xargs docker inspect --format '{{ .Id }}' PidMode='{{ .HostConfig.PidMode }}'
11790d21bc813547159e2f85f95ae71b33c3c1d50563481251f7ba02 PidMode=
278f49d5bca0a9063ed3de0020f0f554d5f7ffdd02642efdec170929ea01010598 PidMode=
77fa076ec76b01c88822c8c57efaf5e693b7200867f97a7bb035fde471e1a996 PidMode=
d8ef0fb0baacc47be08d4526050b752249290e79fd191bb0373f3296cc795b PidMode=
6f1de67e7d84de50618798622437248ef2f282709969ea7345a6f67c05906c6 PidMode=
5d29c578880b80196151afe8e3231b90d3d20272812810fb0b84e719790d99 PidMode=
7df9f41289432131ec00bd01879a0585277e410a9af1808dfadfe6a02c8796 PidMode=
d8ef0fb0baacc47be08d4526050b752249290e79fd191bb0373f3296cc795b PidMode=
5e5d55acd2c3e2746c1249cb0d9e6e3e27357430baa95023166ea167d3098 PidMode=
2d5710056878d355f2cc7f880f9dc6afee7edfbca0d87d100d6995a1de6c6 PidMode=
0ff402959fa86e03999989999835e8b01f11c441fc741a24287512e11e71794 PidMode=
23f47a71b8385e0905b15fdbfa7738471631a087c738512e9293d888ab0e8 PidMode=
6f1919d208e72a5b0b39e62c08150962374379d08f6e8217996788853ce851e PidMode=
3e7d1524c4402ef0194b07c0ff4c4f4f3b0e221a3397fa08eead486cf711 PidMode=
e737a2a3d0d6fc3599df3e302387b07e6280e6784e2085f5fa977803b077910c PidMode=
[|root@parrot|] ~
└-- docker run -i -t centos /bin/bash
[|root@e5ec0440c1bd|] # exit
exit
[|root@parrot|] ~
└-- docker run -i -t centos /bin/bash
docker: Error response from daemon: No such container: e3a7a1a97c58.
See 'docker run --help'.
[|root@parrot|] ~
└-- docker run -i -t centos /bin/bash
docker: Error response from daemon: No such container: d2c94e256cb.
See 'docker run --help'.
[|root@parrot|] ~
└-- 4

```



```

Parrot Home CIS Docker Benchmark [Corriendo] - Oracle VM VirtualBox
File Edad View Search Terminal Help
[|root@parrot|] ~
└-- docker ps --quiet --all | xargs docker inspect --format '{{ .Id }}' IpcMode='{{ .HostConfig.IpcMode }}'
11790d21bc813547159e2f85f95ae71b33c3c1d50563481251f7ba02 IpcMode=private
278f49d5bca0a9063ed3de0020f0f554d5f7ffdd02642efdec170929ea01010598 IpcMode=private
77fa076ec76b01c88822c8c57efaf5e693b7200867f97a7bb035fde471e1a996 IpcMode=private
d8ef0fb0baacc47be08d4526050b752249290e79fd191bb0373f3296cc795b IpcMode=private
6f1de67e7d84de50618798622437248ef2f282709969ea7345a6f67c05906c6 IpcMode=private
5d29c578880b80196151afe8e3231b90d3d20272812810fb0b84e719790d99 IpcMode=private
7df9f41289432131ec00bd01879a0585277e410a9af1808dfadfe6a02c8796 IpcMode=private
d8ef0fb0baacc47be08d4526050b752249290e79fd191bb0373f3296cc795b IpcMode=private
5e5d55acd2c3e2746c1249cb0d9e6e3e27357430baa95023166ea167d3098 IpcMode=private
2d5710056878d355f2cc7f880f9dc6afee7edfbca0d87d100d6995a1de6c6 IpcMode=private
0ff402959fa86e03999989999835e8b01f11c441fc741a24287512e11e71794 IpcMode=private
23f47a71b8385e0905b15fdbfa7738471631a087c738512e9293d888ab0e8 IpcMode=private
6f1919d208e72a5b0b39e62c08150962374379d08f6e8217996788853ce851e IpcMode=private
3e7d1524c4402ef0194b07c0ff4c4f4f3b0e221a3397fa08eead486cf711 IpcMode=private
e737a2a3d0d6fc3599df3e302387b07e6280e6784e2085f5fa977803b077910c IpcMode=private
[|root@parrot|] ~
└-- docker run -i -t centos /bin/bash
[|root@e5ec0440c1bd|] # exit
exit
[|root@parrot|] ~
└-- 4

```



```
[root@parrot:~]# -- docker ps --quiet --all | xargs docker inspect --format '{{ .Id }}: Ulimits=(<HostConfig.Ulimits>)' >/etc/docker/limits.conf
```

```
[root@parrot:~]# -- docker ps --quiet --all | xargs docker inspect --format '{{ .Id }}: Propagation=(<range $mnt := <Mounts> >| json $mnt.Propagation) & (<end>)' >/etc/docker/propagation.conf
```

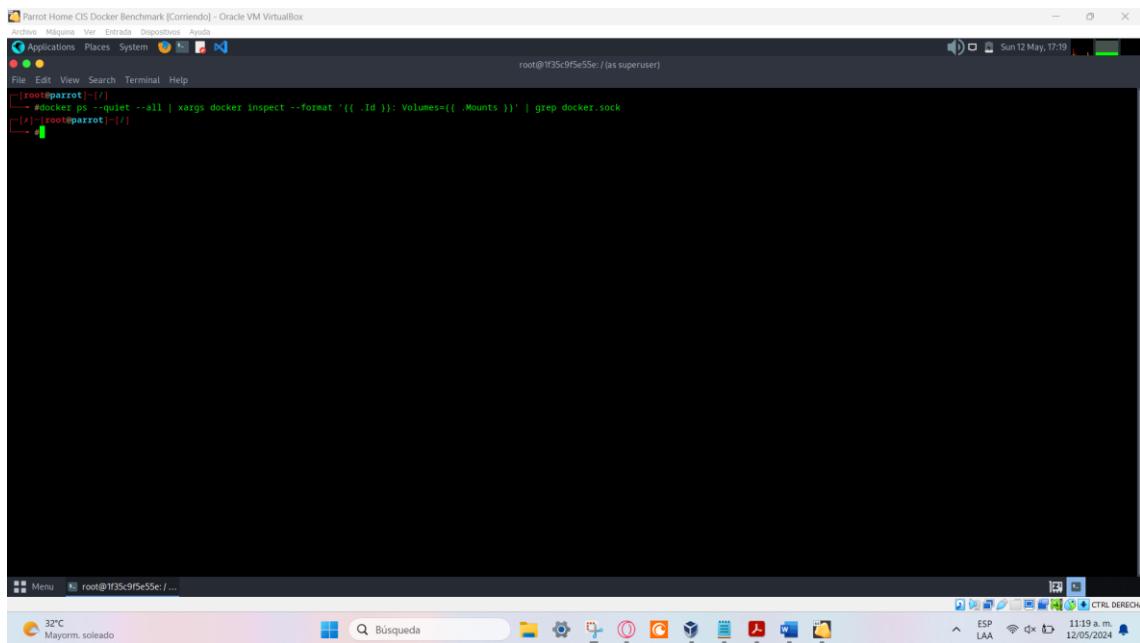
```
[root@parrot:~]#
└── # docker ps --quiet --all | xargs docker inspect --format '{" .Id }': SecurityOpt=[{"HostConfig.SecurityOpt"}]
ccf9e17c5d7a0c8a25ead0e14782fa17e857c14ef5426231bf0e23a945f7 SecurityOpt=<no value>
<e5d9087eecddef11ea2f4e7078d7ab8801fd70585cb9a0be75852e5acd2f32> SecurityOpt=<no value>
<4f980ed5e1727fc2a95cac8e0830c17f7ead1a175d5db34a2978ef8c272127d> SecurityOpt=<no value>
<ccf9e17c5d7a0c8a25ead0e14782fa17e857c14ef5426231bf0e23a945f7> SecurityOpt=<no value>
<4d7fd5d2313308348454c8f18e8975907c2c81328a18f179855278301b1430d2> SecurityOpt=<no value>
<4b81fcf04008144e65cda6d817abc8a90499392ab01c229180a0936a9f53fc> SecurityOpt=[label=disable]
<c7ec4460e16b03b05cdafb786558c54f0e006643587d2f7778c89f4fa0cc> SecurityOpt=[label=disable]
31790d21bc61835547a1598e2f57a5958eb71b33c3c61d305833481251fbad2 SecurityOpt=<no value>
<278749d506e69683e3d40a020f556d5f7f7d00d2642f0dec17692ea9e91b0598> SecurityOpt=<apparmor:PROFILENAME>
7fa#0067e6c760b1c8882c8e576fa5b6930fb7797a8bb035fd47161a996 SecurityOpt=<no value>
<68f6fbbaa8cc47be08d45265d5d7522492f90e9d191bb3773f9296cc795b> SecurityOpt=<no value>
<1108e708d0e648848833898080232830248e2728738969e0773454f0e779586c8> SecurityOpt=<no value>
<429f618e0f8432151cc4ecb0bd1878aa855277e41a9a0f11660ffad9efca82e8788 SecurityOpt=<no value>
<16df941289432151cc4ecb0bd1878aa855277e41a9a0f11660ffad9efca82e8788> SecurityOpt=<no value>
<0c5d55ac2c63c2fa46c1240cd009e2e2753674390eae9502a1666e1673d09a> SecurityOpt=<no value>
<205710856878d3e595f2cc7889f9dc0aafeefef0d8ae087d10b69591a0e66c> SecurityOpt=<no value>
<0ff4929fa86e03996989969835e8b1f11c441fc741a80f71631a738012692a888a00e8> SecurityOpt=[label=disable]
<07919d280e72a5046394e02cb01506237437a790bf60231799678853e0851> SecurityOpt=[label=level:TopSecret]
<701524c440e2013940c0e87ff4c74f800b22183397fd80e0048ce480c7711> SecurityOpt=<apparmor:PROFILENAME>
<404560d3a6556a69683e3d40a020f556d5f7f7d00d2642f0dec17692ea9e91b0598> SecurityOpt=<no value>
[root@parrot:~]#
└── # usersearch -k docker | grep exec | grep privileged
[(x)-root@parrot:~]#
└── # docker ps --quiet --all | xargs docker inspect --format '{" .Id }': CgroupParent=[{"HostConfig.CgroupParent"}]
ccf9e17c5d7a0c8a25ead0e14782fa17e857c14ef5426231bf0e23a945f7 CgroupParent=
<e5d9087eecddef11ea2f4e7078d7ab8801fd70585cb9a0be75852e5acd2f32> CgroupParent=[<no value>]
<4f980ed5e1727fc2a95cac8e0830c17f7ead1a175d5db34a2978ef8c272127d> CgroupParent=
<ccf9e17c5d7a0c8a25ead0e14782fa17e857c14ef5426231bf0e23a945f7> CgroupParent=[<no value>]
<ccf9e17c5d7a0c8a25ead0e14782fa17e857c14ef5426231bf0e23a945f7> CgroupParent=[<no value>]
<4b81fcf04008144e65cda6d817abc8a90499392ab01c229180a0936a9f53fc> CgroupParent=[<no value>]
<c7ec4460e16b03b05cdafb786558c54f0e006643587d2f7778c89f4fa0cc> CgroupParent=[<no value>]
31790d21bc61835547a1598e2f57a5958eb71b33c3c61d305833481251fbad2 CgroupParent=[<no value>
<278749d506e69683e3d40a020f556d5f7f7d00d2642f0dec17692ea9e91b0598> CgroupParent=[<no value>
7fa#0067e6c760b1c8882c8e576fa5b6930fb7797a8bb035fd47161a996 CgroupParent=[<no value>
<68f6fbbaa8cc47be08d45265d5d7522492f90e9d191bb3773f9296cc795b> CgroupParent=[<no value>
[(x)-root@parrot:~]#
└── # usersearch -k docker | grep exec | grep privileged
[(x)-root@parrot:~]#
└── # docker ps --quiet --all | xargs docker inspect --format '{" .Id }': CgroupParent=[{"HostConfig.CgroupParent"}]
ccf9e17c5d7a0c8a25ead0e14782fa17e857c14ef5426231bf0e23a945f7 CgroupParent=
<e5d9087eecddef11ea2f4e7078d7ab8801fd70585cb9a0be75852e5acd2f32> CgroupParent=[<no value>]
<4f980ed5e1727fc2a95cac8e0830c17f7ead1a175d5db34a2978ef8c272127d> CgroupParent=
<ccf9e17c5d7a0c8a25ead0e14782fa17e857c14ef5426231bf0e23a945f7> CgroupParent=[<no value>]
<ccf9e17c5d7a0c8a25ead0e14782fa17e857c14ef5426231bf0e23a945f7> CgroupParent=[<no value>]
<4b81fcf04008144e65cda6d817abc8a90499392ab01c229180a0936a9f53fc> CgroupParent=[<no value>]
<c7ec4460e16b03b05cdafb786558c54f0e006643587d2f7778c89f4fa0cc> CgroupParent=[<no value>]
31790d21bc61835547a1598e2f57a5958eb71b33c3c61d305833481251fbad2 CgroupParent=[<no value>
<278749d506e69683e3d40a020f556d5f7f7d00d2642f0dec17692ea9e91b0598> CgroupParent=[<no value>
7fa#0067e6c760b1c8882c8e576fa5b6930fb7797a8bb035fd47161a996 CgroupParent=[<no value>
<68f6fbbaa8cc47be08d45265d5d7522492f90e9d191bb3773f9296cc795b> CgroupParent=[<no value>
[(x)-root@parrot:~]#
└── # usersearch -k docker | grep exec | grep privileged
[(x)-root@parrot:~]#
└── # docker ps --quiet --all | xargs docker inspect --format '{" .Id }': Health=[{".State.Health.Status"}]
template parsing error: template: :1:27: executing `` at <.State.Health.Status>: map has no entry for key `Health`
template parsing error: template: :1:27: executing `` at <.State.Health.Status>: map has no entry for key `Health`
template parsing error: template: :1:27: executing `` at <.State.Health.Status>: map has no entry for key `Health`
```

```
[(x)-root@parrot:~]#
└── # docker ps --quiet --all | xargs docker inspect --format '{" .Id }': Health=[{".State.Health.Status"}]
template parsing error: template: :1:27: executing `` at <.State.Health.Status>: map has no entry for key `Health`
template parsing error: template: :1:27: executing `` at <.State.Health.Status>: map has no entry for key `Health`
template parsing error: template: :1:27: executing `` at <.State.Health.Status>: map has no entry for key `Health`
```

```
Parrot Home CIS Docker Benchmark [Corriendo] - Oracle VM VirtualBox
File Edt View Search Terminal Help
[root@parrot:~]
└── # docker run -d --health-cmd=stat /etc/passwd || exit 1 nginx
004199ac9add8e3cc35e0426f950b3a3af957a37204e6eeb5fad410815e8ab2
[root@parrot:~]
└── # docker ps --quiet --all | xargs docker inspect --format '{{.Id}} {{.HostConfig.PidLimit}}'
004199ac9add8e3cc35e0426f950b3a3af957a37204e6eeb5fad410815e8ab2 1
[ccf9e17cd87ac98a35eade1a72cfa1f77e07314ef5426331bf0221a2945f7 PidLimit=<no value>
4x5d96807ec4ec41ee274e7078d7ab0861f07d505c5b0a0e5750525e5ac02f32 PidLimit=<no value>
4f906e05e172fec2a205cacce0630c1f7ea81a175d50d33aae2979ef8c272127d PidLimit=<no value>
9c20b1fb0a695e8e617d8398a678054dcba53d0ba0d407ff2f2e7afab5 PidLimit=<no value>
9377a5e21339e249494e0fe8e8f2967e2c28528a2f617985547671061430d2 PidLimit=<no value>
eb0a1fcf408014061c083a73aca804983920eba1c229a10603938a6f3c7 PidLimit=<no value>
cdec446e10bd3b05cdaef0786558c54fe00e66458f2d77740806 PidLimit=<no value>
517980210c81355478135962785793a871031c3c61d355303481825170a02 PidLimit=<no value>
517980210c81355478135962785793a871031c3c61d355303481825170a02 PidLimit=<no value>
7448976ec76681c8882c8c57efaf58e6930f2007f7f7a88e631fd47161a996 PidLimit=<no value>
d09fb0baa8c47be08d4526d5075224920bf09d191bb373f2926c795b PidLimit=<no value>
071de07ed4d44658617588622437b24bea2f282709069e0a7354f607c05b06c6 PidLimit=<no value>
52957882b83c196151af8e4321b9d3d2b72a1231bf0fb84471979d09 PidLimit=<no value>
70df941289432151ec00bd1079a858522f282709069e0a7354f607c05b06c6 PidLimit=<no value>
507350994262c22c362f46c1249cdd09e8a2b753674398eab95b2a1660e1673309a PidLimit=<no value>
4cc565580783e3595f2cc788790dc6a8ee708c0e087d1060e993a1e060c PidLimit=<no value>
517980210c81355478135962785793a871031c3c61d355303481825170a02 PidLimit=<no value>
1137a7a01015385e0905b154dbfa7738471631a8b7c7385156929c49d888ab68 PidLimit=<no value>
b7d919d208e72a5b639h02c8015096237437a70806f602317996788853c651e PidLimit=<no value>
4e7d1524c44020f13940c7c0f5ff4c74f4308e221a333977fa080eaf4f86c7f11 PidLimit=<no value>
e73f7a223d0f6c9399ndf30e2387b07a62c08678042085f5a977003b77f918c: PidLimit=<no value>
[root@parrot:~]
└── # docker run -it --pid-limit 100 02c046259db
Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the 'hello-world' image from the Docker Hub.
   (amd64)
3. The Docker daemon created a new container from that image which runs the
[Menu]  root@450c776fe4b7:...
```

```
Parrot Home CIS Docker Benchmark [Corriendo] - Oracle VM VirtualBox
File Edt View Search Terminal Help
[ccf9e17cd87ac98a35eade1a72cfa1f77e07314ef5426331bf0221a2945f7 PidLimit=<no value>
4x5d96807ec4ec41ee274e7078d7ab0861f07d505c5b0a0e5750525e5ac02f32 PidLimit=<no value>
4f906e05e172fec2a205cacce0630c1f7ea81a175d50d33aae2979ef8c272127d PidLimit=<no value>
9c20b1fb0a695e8e617d8398a678054dcba53d0ba0d407ff2f2e7afab5 PidLimit=<no value>
9377a5e21339e249494e0fe8e8f2967e2c28528a2f617985547671061430d2 PidLimit=<no value>
eb0a1fcf408014061c083a73aca804983920eba1c229a10603938a6f3c7 PidLimit=<no value>
cdec446e10bd3b05cdaef0786558c54fe00e66458f2d77740806 PidLimit=<no value>
517980210c81355478135962785793a871031c3c61d355303481825170a02 PidLimit=<no value>
517980210c81355478135962785793a871031c3c61d355303481825170a02 PidLimit=<no value>
7448976ec76681c8882c8c57efaf58e6930f2007f7f7a88e631fd47161a996 PidLimit=<no value>
d09fb0baa8c47be08d4526d5075224920bf09d191bb373f2926c795b PidLimit=<no value>
071de07ed4d44658617588622437b24bea2f282709069e0a7354f607c05b06c6 PidLimit=<no value>
52957882b83c196151af8e4321b9d3d2b72a1231bf0fb84471979d09 PidLimit=<no value>
70df941289432151ec00bd1079a858522f282709069e0a7354f607c05b06c6 PidLimit=<no value>
507350994262c22c362f46c1249cdd09e8a2b753674398eab95b2a1660e1673309a PidLimit=<no value>
4cc565580783e3595f2cc788790dc6a8ee708c0e087d1060e993a1e060c PidLimit=<no value>
517980210c81355478135962785793a871031c3c61d355303481825170a02 PidLimit=<no value>
1137a7a01015385e0905b154dbfa7738471631a8b7c7385156929c49d888ab68 PidLimit=<no value>
b7d919d208e72a5b639h02c8015096237437a70806f602317996788853c651e PidLimit=<no value>
4e7d1524c44020f13940c7c0f5ff4c74f4308e221a333977fa080eaf4f86c7f11 PidLimit=<no value>
e73f7a223d0f6c9399ndf30e2387b07a62c08678042085f5a977003b77f918c: PidLimit=<no value>
[ccf9e17cd87ac98a35eade1a72cfa1f77e07314ef5426331bf0221a2945f7 PidLimit=<no value>
4x5d96807ec4ec41ee274e7078d7ab0861f07d505c5b0a0e5750525e5ac02f32 PidLimit=<no value>
4f906e05e172fec2a205cacce0630c1f7ea81a175d50d33aae2979ef8c272127d PidLimit=<no value>
9c20b1fb0a695e8e617d8398a678054dcba53d0ba0d407ff2f2e7afab5 PidLimit=<no value>
9377a5e21339e249494e0fe8e8f2967e2c28528a2f617985547671061430d2 PidLimit=<no value>
eb0a1fcf408014061c083a73aca804983920eba1c229a10603938a6f3c7 PidLimit=<no value>
cdec446e10bd3b05cdaef0786558c54fe00e66458f2d77740806 PidLimit=<no value>
517980210c81355478135962785793a871031c3c61d355303481825170a02 PidLimit=<no value>
517980210c81355478135962785793a871031c3c61d355303481825170a02 PidLimit=<no value>
7448976ec76681c8882c8c57efaf58e6930f2007f7f7a88e631fd47161a996 PidLimit=<no value>
d09fb0baa8c47be08d4526d5075224920bf09d191bb373f2926c795b PidLimit=<no value>
071de07ed4d44658617588622437b24bea2f282709069e0a7354f607c05b06c6 PidLimit=<no value>
52957882b83c196151af8e4321b9d3d2b72a1231bf0fb84471979d09 PidLimit=<no value>
70df941289432151ec00bd1079a858522f282709069e0a7354f607c05b06c6 PidLimit=<no value>
507350994262c22c362f46c1249cdd09e8a2b753674398eab95b2a1660e1673309a PidLimit=<no value>
4cc565580783e3595f2cc788790dc6a8ee708c0e087d1060e993a1e060c PidLimit=<no value>
517980210c81355478135962785793a871031c3c61d355303481825170a02 PidLimit=<no value>
1137a7a01015385e0905b154dbfa7738471631a8b7c7385156929c49d888ab68 PidLimit=<no value>
b7d919d208e72a5b639h02c8015096237437a70806f602317996788853c651e PidLimit=<no value>
4e7d1524c44020f13940c7c0f5ff4c74f4308e221a333977fa080eaf4f86c7f11 PidLimit=<no value>
e73f7a223d0f6c9399ndf30e2387b07a62c08678042085f5a977003b77f918c: PidLimit=<no value>
[ccf9e17cd87ac98a35eade1a72cfa1f77e07314ef5426331bf0221a2945f7 PidLimit=<no value>
4x5d96807ec4ec41ee274e7078d7ab0861f07d505c5b0a0e5750525e5ac02f32 PidLimit=<no value>
4f906e05e172fec2a205cacce0630c1f7ea81a175d50d33aae2979ef8c272127d PidLimit=<no value>
9c20b1fb0a695e8e617d8398a678054dcba53d0ba0d407ff2f2e7afab5 PidLimit=<no value>
9377a5e21339e249494e0fe8e8f2967e2c28528a2f617985547671061430d2 PidLimit=<no value>
eb0a1fcf408014061c083a73aca804983920eba1c229a10603938a6f3c7 PidLimit=<no value>
cdec446e10bd3b05cdaef0786558c54fe00e66458f2d77740806 PidLimit=<no value>
517980210c81355478135962785793a871031c3c61d355303481825170a02 PidLimit=<no value>
517980210c81355478135962785793a871031c3c61d355303481825170a02 PidLimit=<no value>
7448976ec76681c8882c8c57efaf58e6930f2007f7f7a88e631fd47161a996 PidLimit=<no value>
d09fb0baa8c47be08d4526d5075224920bf09d191bb373f2926c795b PidLimit=<no value>
071de07ed4d44658617588622437b24bea2f282709069e0a7354f607c05b06c6 PidLimit=<no value>
52957882b83c196151af8e4321b9d3d2b72a1231bf0fb84471979d09 PidLimit=<no value>
70df941289432151ec00bd1079a858522f282709069e0a7354f607c05b06c6 PidLimit=<no value>
507350994262c22c362f46c1249cdd09e8a2b753674398eab95b2a1660e1673309a PidLimit=<no value>
4cc565580783e3595f2cc788790dc6a8ee708c0e087d1060e993a1e060c PidLimit=<no value>
517980210c81355478135962785793a871031c3c61d355303481825170a02 PidLimit=<no value>
1137a7a01015385e0905b154dbfa7738471631a8b7c7385156929c49d888ab68 PidLimit=<no value>
b7d919d208e72a5b639h02c8015096237437a70806f602317996788853c651e PidLimit=<no value>
4e7d1524c44020f13940c7c0f5ff4c74f4308e221a333977fa080eaf4f86c7f11 PidLimit=<no value>
e73f7a223d0f6c9399ndf30e2387b07a62c08678042085f5a977003b77f918c: PidLimit=<no value>
```



6. OPERACIONES DE SEGURIDAD DE DOCKER

The image consists of three vertically stacked screenshots of a Linux desktop environment, likely Parrot OS, showing terminal windows with Docker command outputs.

Screenshot 1 (Top): Shows a terminal window titled "Parrot Home CIS Docker Benchmark [Corriendo] - Oracle VM VirtualBox". The terminal shows a sequence of Docker commands being run by root, including inspecting images, listing images, removing repositories, and viewing container info. It ends with a warning about removing stopped containers.

```
[root@parrot:~]
└── # docker image --quiet | xargs docker inspect --format '{{ .Id }}: Image={{ .Config.Image }}"
sha256:1d668e60f1e534ab338404b4ba891c370d180dd3c09873dcdd4eb62ea7643f83f: Image=
sha256:bfc93c08bfed0e031182827888bb1597e16ad979ee2cc65377df7e631d: Image=sha256:20d0aba5b0416f4e0f32e4a251560b93269dad188c03f0e9fe73cf00e69ae61dea
sha256:bf3dca89bfed0 13 days ago 16.8MB
ubuntu latest bf3dca89bfed0 13 days ago 76.2MB
hello-world latest d2c94e258dc0 12 months ago 13.3KB
centos latest 508da03ec9764 2 years ago 231MB
[root@parrot:~]
└── # docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
nginx latest 1d668e60f1e5 16.668e60f1e5 10 days ago 18.0MB
ubuntu latest bf3dca89bfed0 13 days ago 76.2MB
hello-world latest d2c94e258dc0 12 months ago 13.3KB
centos latest 508da03ec9764 2 years ago 231MB
[root@parrot:~]
└── # docker inspect --quiet | xargs docker inspect --format '{{ .Id }}: Image={{ .Config.Image }}"
sha256:1d668e60f1e534ab338404b4ba891c370d180dd3c09873dcdd4eb62ea7643f83f: Image=
sha256:bfc93c08bfed0e031182827888bb1597e16ad979ee2cc65377df7e631d: Image=sha256:20d0aba5b0416f4e0f32e4a251560b93269dad188c03f0e9fe73cf00e69ae61dea
sha256:d2c94e258dc0b3c5a2798d32e1249e42ef01cb4841c22342e9495f7e2764ac5a: Image=
sha256:5d0da03ec9764002c77d94ca8ad484720b410fb1c05c2c5d4847e53fad6: Image=sha256:f5b058f177fd426beff990a8ecf3fb1858d7e26dff4880b29a327d1bd5ba422
[root@parrot:~]
└── # docker rmi
REPOSITORY TAG IMAGE ID CREATED SIZE
nginx latest 1d668e60f1e5 16.668e60f1e5 10 days ago 18.0MB
ubuntu latest bf3dca89bfed0 13 days ago 76.2MB
hello-world latest d2c94e258dc0 12 months ago 13.3KB
centos latest 508da03ec9764 2 years ago 231MB
[root@parrot:~]
└── # docker rmi hello-world
Error response from daemon: conflict: unable to remove repository reference "hello-world" (must force) - container ccf9e17cd587 is using its referenced image d2c94e258dc0
[root@parrot:~]
└── # docker rmi d2c94e258dc0
Error response from daemon: conflict: unable to delete d2c94e258dc0 (must be forced) - image is being used by stopped container 78df04128943
[root@parrot:~]
└── # docker info --format '{{ .Containers }}'
24
[root@parrot:~]
└── # docker info --format '{{ .ContainersStopped }}' docker info --format '{{ .ContainersRunning }}'
'docker info' accepts no arguments.
See 'docker info --help'.
[root@parrot:~]
└── #
```

Screenshot 2 (Middle): Shows a terminal window titled "Parrot Home CIS Docker Benchmark [Corriendo] - Oracle VM VirtualBox". The terminal shows a sequence of Docker commands being run by root, including inspecting images, listing images, removing repositories, and viewing container info. It ends with a warning about removing stopped containers.

```
[root@parrot:~]
└── # docker info --format '{{ .ContainersStopped }}' docker info --format '{{ .ContainersRunning }}'
'docker info' accepts no arguments.
See 'docker info --help'.
[root@parrot:~]
└── # docker info [OPTIONS]
Usage: docker info [OPTIONS]

Display system-wide information
[root@parrot:~]
└── # docker container prune
WARNING! This will remove all stopped containers.
Are you sure you want to continue? [y/N] Y
Deleted Containers:
4uba9ba37a255d47d74f11bf21f91c61a078e91bab05145deb489135677
ccf9e17cd97a4c90a25e5ade1e7482f5af17e0571c4e5426231b0232a2945f
... (long list of deleted container IDs)
[root@parrot:~]
└── # docker info [OPTIONS]
Usage: docker info [OPTIONS]

Display system-wide information
[root@parrot:~]
└── #
```

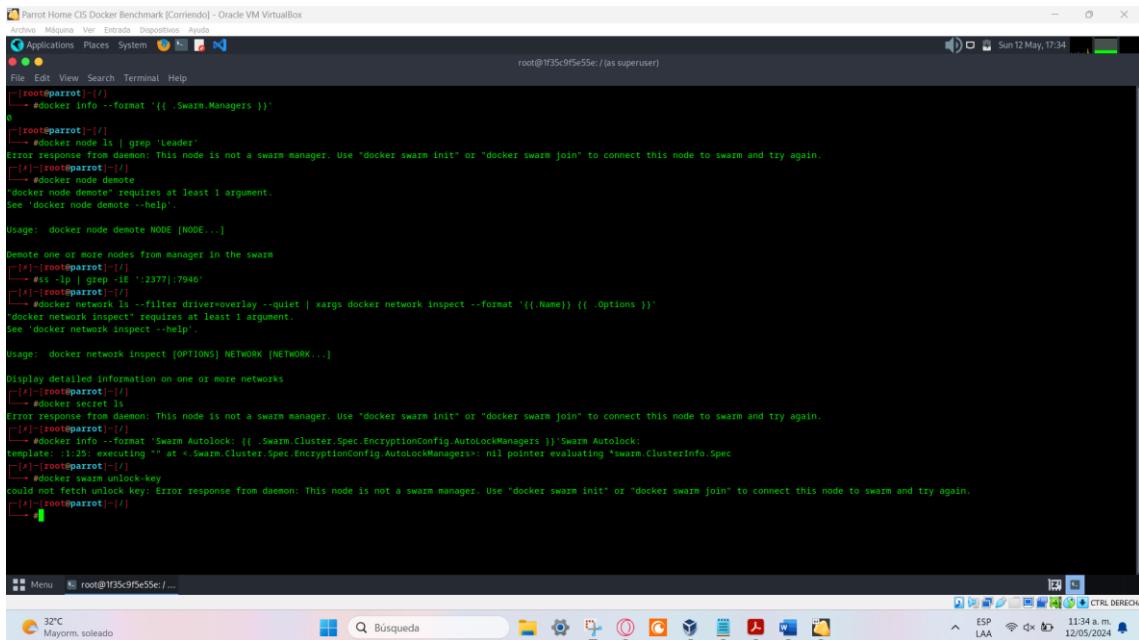
Screenshot 3 (Bottom): Shows a terminal window titled "Parrot Home CIS Docker Benchmark [Corriendo] - Oracle VM VirtualBox". The terminal shows a sequence of Docker commands being run by root, including inspecting images, listing images, removing repositories, and viewing container info. It ends with a warning about removing stopped containers.

```
[root@parrot:~]
└── # docker info --format '{{ .ContainersStopped }}' docker info --format '{{ .ContainersRunning }}'
'docker info' accepts no arguments.
See 'docker info --help'.
[root@parrot:~]
└── # docker info [OPTIONS]
Usage: docker info [OPTIONS]

Display system-wide information
[root@parrot:~]
└── # docker container prune
WARNING! This will remove all stopped containers.
Are you sure you want to continue? [y/N] Y
Deleted Containers:
4uba9ba37a255d47d74f11bf21f91c61a078e91bab05145deb489135677
ccf9e17cd97a4c90a25e5ade1e7482f5af17e0571c4e5426231b0232a2945f
... (long list of deleted container IDs)
[root@parrot:~]
└── # docker info [OPTIONS]
Usage: docker info [OPTIONS]

Display system-wide information
[root@parrot:~]
└── #
```

7. CONFIGURACIÓN DE ENJAMBRE DE DOCKER



The terminal window shows the following session:

```
[root@parrot:~]# docker info --format '{{ .Swarm.Managers }}'
[...]
[('x')-root@parrot:~]# docker node ls | grep 'Leader'
Error response from daemon: This node is not a swarm manager. Use "docker swarm init" or "docker swarm join" to connect this node to swarm and try again.
[('x')-root@parrot:~]# docker node leave
'docker node demote' requires at least 1 argument.
See 'docker node demote --help'.

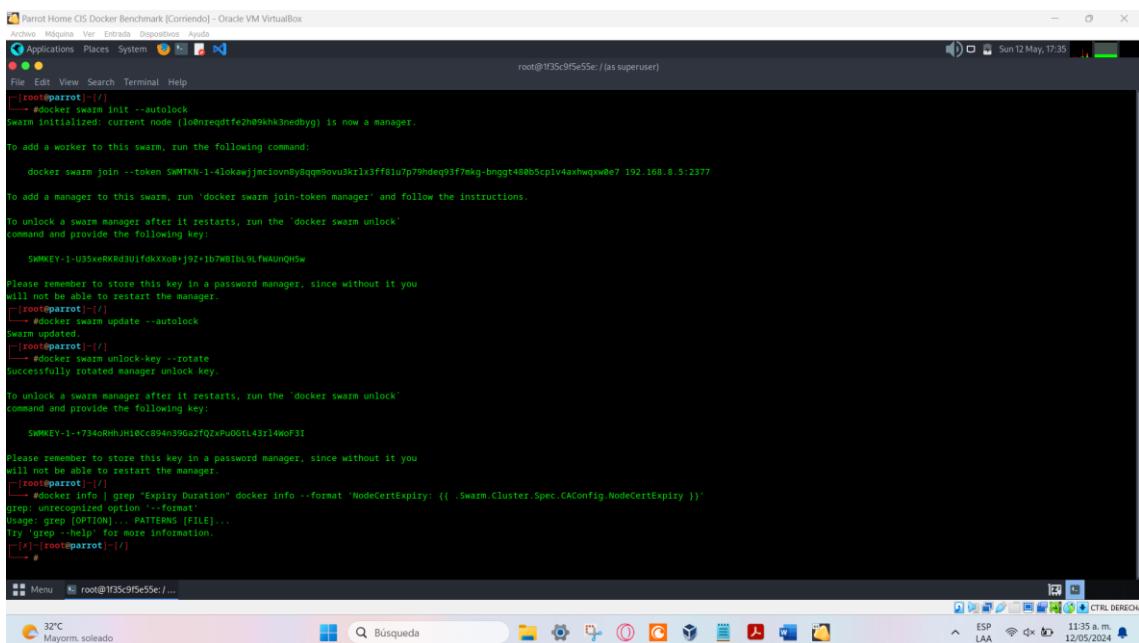
Usage: docker node demote NODE [NODE...]

Demote one or more nodes from manager in the swarm
[('x')-root@parrot:~]# docker network ls --filter driver=overlay --quiet | xargs docker network inspect --format '{{.Name}} {{.Options}}'
[('x')-root@parrot:~]# docker network inspect
'docker network inspect' requires at least 1 argument.
See 'docker network inspect --help'.

Usage: docker network inspect [OPTIONS] NETWORK [NETWORK...]

Display detailed information on one or more networks
[('x')-root@parrot:~]# docker secret ls
Error response from daemon: This node is not a swarm manager. Use "docker swarm init" or "docker swarm join" to connect this node to swarm and try again.
[('x')-root@parrot:~]# docker info --format '{{.Swarm.Spec.EncryptionConfig.AutoLockManagers }}' Swarm Autolock:
template: :1:25: executing "" at <.Swarm.Spec.EncryptionConfig.AutoLockManagers>: nil pointer evaluating *swarm.ClusterInfo.Spec
[('x')-root@parrot:~]# docker swarm unlock-key
could not fetch unlock key: Error response from daemon: This node is not a swarm manager. Use "docker swarm init" or "docker swarm join" to connect this node to swarm and try again.
[('x')-root@parrot:~]#
```

The desktop environment at the bottom shows the system tray with network status (32°C, Mayorm.soleado) and system notifications.



The terminal window shows the following session:

```
[root@parrot:~]# docker swarm init --auto-lock
Swarm initialized: current node (lobmregdtfezh0okhk3nedbyg) is now a manager.

To add a worker to this swarm, run the following command:

    docker swarm join --token TTKN-1-4l0kawjmciov8y8qqmbovu3kr1x3ff8lu7p79deq9f7mk9-bnggt480b5cplv4xshewqxw0e7 192.168.8.5:2377

To add a manager to this swarm, run 'docker swarm join-token manager' and follow the instructions.

To unlock a swarm manager after it restarts, run the 'docker swarm unlock' command and provide the following key:

    SWMKEY-1-U35xeRKh3UJfdkXX0+J92+1b7WB1BL9LfuAUNQH5w

Please remember to store this key in a password manager, since without it you will not be able to restart the manager.
[('x')-root@parrot:~]# docker swarm update --auto-lock
Swarm updated.

[('x')-root@parrot:~]# docker swarm unlock-key --rotate
Successfully rotated manager unlock key.

To unlock a swarm manager after it restarts, run the 'docker swarm unlock' command and provide the following key:

    SWMKEY-1-+7346RHnJH10Cc894n39GxZfQzPu0tL4s14WoF3I

Please remember to store this key in a password manager, since without it you will not be able to restart the manager.
[('x')-root@parrot:~]# docker info | grep 'Expiry Duration' docker info --format 'NodeCertExpiry: {{ .Swarm.Cluster.Spec.CACConfig.NodeCertExpiry }}'
grep: unrecognized option '--format'
usage: grep [OPTION]... PATTERN [FILE]...
Try 'grep --help' for more information.
[('x')-root@parrot:~]#
```

The desktop environment at the bottom shows the system tray with network status (32°C, Mayorm.soleado) and system notifications.

```

Parrot Home CIS Docker Benchmark [Corriendo] - Oracle VM VirtualBox
File Edt View Search Terminal Help
root@1f35c9f5e55e:~$ (root@parrot:~[])
└─# docker swarm update --cert-expiry 48h
Swarm updated.
[root@parrot:~[]]
└─# ls -l /var/lib/docker/swarm/certificates/swarm-root-ca.crt
-rw-r----- 1 root root 558 May 12 17:34 /var/lib/docker/swarm/certificates/swarm-root-ca.crt
[root@parrot:~[]]
└─# docker swarm ca --rotate
Desired root digest: sha256:085bb0df1880d17e29ef4d382b99d7f10b541dc8759b71271862f32756653e6
rotated TLS certificates: 1/1 nodes
rotated CA certificates: 1/1 nodes
-----BEGIN CERTIFICATE-----
MIIBATCCARgAwBgiUMwSCpCIS5RC1682BHv5U/Cvmp4WcgYTkoZIj0EAwIw
EIRMAGA1DEAXICdHcM0TZEWHhNMjQmHTTyMjAwIhcNQmTA3MTYz
MIIBATCCARgAwBgiUMwSCpCIS5RC1682BHv5U/Cvmp4WcgYTkoZIj0EAwIw
EIRMAGA1DEAXICdHcM0TZEWHhNMjQmHTTyMjAwIhcNQmTA3MTYz
-----END CERTIFICATE-----
[root@parrot:~[]]
└─# docker node inspect --format '{{ .Status.Addr }}' self
[{"Status": {"Addr": "192.168.0.1"}]
[root@parrot:~[]]
└─# docker swarm init --advertise-addr=192.168.0.1 --data-path-addr=17.1.0.3
Error response from daemon: This node is already part of a swarm. Use 'docker swarm leave' to leave this swarm and join another one.
[{:}][root@parrot:~[]]
└─# docker swarm init --advertise-addr=192.168.8.5 --data-path-addr=17.1.0.3
Error response from daemon: This node is already part of a swarm. Use 'docker swarm leave' to leave this swarm and join another one.
[{:}][root@parrot:~[]]
└─#

```

DASHBOARD AL TERMINAR EL MANUAL DE CIS DOCKER BENCHMARK

Agents / **CIS-DOCKER-BENCHMARK**

ID	Status	IP address	Version	Groups	Operating system	Cluster node	Registration date	Last keep alive
001	active	192.168.8.11	Wazuh v4.7.4	default	Parrot OS 5.3	node01	May 14, 2024 @ 14:47:36.000	May 14, 2024 @ 15:09:47.000

MITRE

Top Tactics: Defense Evasion

Compliance (PCI DSS):

- 2.2 (24)
- 6.0.6.1 (19)
- 10.2.7 (14)
- 2.2.4 (8)
- 10.2.6 (3)

FIM: Recent events

Events count evolution

SCA: Lastest scans

System audit for Unix based systems

Policy	End scan	Passed	Failed	Not appl...	Score
System audit for Unix based systems	May 14, 2024 @ 14:48:04.000	3	3	17	50%