## King's Ransom 2

The initial process of getting a shell is the same as in king's ransom 1. After obtaining a shell on the target box, we looked around for ways to recover the original key file.

## Recon

We took a look at the entrypoint.sh file which presumly was the entry point for the Dockercontainer. There we found the line echo \${FLAG} > /challenge/bank/flag2.txt, which prepares the second flag to be encrypted.

## Docker init process environment shenanigans

Here the bash process uses the flag string, which is saved in the environment of the bash process, to write the flag into a file. Since the bash process is the entrypoint of the Dockercontainer, the process hasn't exited yet. This in turn means, that the environment of the initial process is still around in the container.

## Getting the flag

We can access the env of the init process by running cat  $/proc/1/environ \mid sed -e 's/\x00/\n/g'$ . That command yields something like

PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/bin HOSTNAME=f8aOd3f24283 FLAG=TESTFLAG SERVICE\_HOST=localhost SERVICE\_PORT=54321 HOME=/home/challenge

The FLAG=TESTFLAG would be the flag in the challenge.