(/)

Curriculum

SE Foundations Average: 108.76%

# 0x12. Web stack debugging #2

DevOps SysAdmin Scripting Debugging

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Weight: 1

₱ Project over - took place from Sep 18, 2023 6:00 AM to Sep 20, 2023 6:00 AM

☑ An auto review will be launched at the deadline

# In a nutshell...

• Auto QA review: 6.0/6 mandatory & 3.0/3 optional

• Altogether: 200.0%

Mandatory: 100.0%Optional: 100.0%

Calculation: 100.0% + (100.0% \* 100.0%) == 200.0%

# Concepts

For this project, we expect you to look at this concept:

Web stack debugging (/concepts/68)





(/)



# Requirements

HOLBERTON

# General

- All your files will be interpreted on Ubuntu 20.04 LTS
- All your files should end with a new line
- A README.md file at the root of the folder of the project is mandatory
- All your Bash script files must be executable
- Your Bash scripts must pass Shellcheck without any error
- Your Bash scripts must run without error
- The first line of all your Bash scripts should be exactly #!/usr/bin/env bash
- The second line of all your Bash scripts should be a comment explaining what is the script doing

# **Tasks**

## 0. Run software as another user

mandatory

Score: 100.0% (Checks completed: 100.0%)

# WITH GREAT POWER



The user root is, on Linux, the "superuser". It can do anything it wants, that's a good and bad thing. A good practice is that one should never be logged in the root user, as if you fat finger a command and for example run rm -rf /, there is no comeback. That's why it is preferable to run as a privileged user, meaning that the user also has the ability to perform tasks that the root user can do, just need to use a specific command that you need to discover.

For the containers that you are given in this project as well as the checker, everything is run under the root user, which has the ability to run anything as another user.

## Requirements:

- write a Bash script that accepts one argument
- the script should run the whoami command under the user passed as an argument
- make sure to try your script by passing different users

#### Example:

root@ubuntu:~# whoami
root@ubuntu:~# ./0-iamsomeoneelse www-data
www-data
root@ubuntu:~# whoami
root
root@ubuntu:~#

#### Repo:

• GitHub repository: alx-system\_engineering-devops

• Directory: 0x12-web\_stack\_debugging\_2

• File: 0-iamsomeoneelse

## 1. Run Nginx as Nginx

mandatory

Score: 100.0% (Checks completed: 100.0%)

The root user is a superuser that can do anything on a Unix machine, the top administrator. Security wise, you must do everything that you can to prevent an attacker from logging in as root. With this in mind, it's a good practice not to run your web servers as root (which is the default for most configurations) and instead run the process as the less privileged nginx user instead. This way, if a hacker does find a security issue that allows them to break-in to your server, the impact is limited by the permissions of the nginx user.

Fix this container so that Nginx is running as the nginx user.

#### Requirements:

- nginx must be running as nginx user
- nginx must be listening on all active IPs on port 8080
- You cannot use apt-get remove
- Write a Bash script that configures the container to fit the above requirements

After debugging:

hginx	884	0.0	0.0	77360	grep ngin[x] 2744 ?	Ss	19:16	0:00	nginx: master pr	oce
ss /usr/s	sbin/ng	inx								
nginx rocess	885	0.0	0.0	77712	2772 ?	S	19:16	0:00	\_ nginx: worke	r p
nginx	886	0.0	0.0	77712	3180 ?	S	19:16	0:00	\_ nginx: worke	r p
rocess										
nginx	887	0.0	0.0	77712	3180 ?	S	19:16	0:00	\_ nginx: worke	r p
rocess										
nginx rocess	888	0.0	0.0	77712	3208 ?	S	19:16	0:00	\_ nginx: worke	r p
root@ab6				- 0 000	0					
_	Г454274	/e:~#	nc -	Z 0 808	0 ; echo \$?					
0 root@ab6	f454274	.7e:~#								

#### Repo:

- GitHub repository: alx-system\_engineering-devops
- Directory: 0x12-web\_stack\_debugging\_2
- File: 1-run\_nginx\_as\_nginx

☑ Done! Help Check your code ➤ Get a sandbox QA Review

# 2.7 lines or less

#advanced

Score: 100.0% (Checks completed: 100.0%)

Using what you did for task #1, make your fix short and sweet.

#### Requirements:

- Your Bash script must be 7 lines long or less
- There must be a new line at the end of the file
- You respect Bash script requirements
- You cannot use ;
- You cannot use &&
- You cannot use wget
- You cannot execute your previous answer file (Do not include the name of the previous script in this
  one)

#### Repo:



- GitHub repository: alx-system\_engineering-devops
- Directory: 0x12-web\_stack\_debugging\_2

• File: 100-fix\_in\_7\_lines\_or\_less
(/)

Done! Help Check your code >\_ Get a sandbox QA Review

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