

(/)



Curriculum

SE Foundations

Average: 120.69%

You just released the advanced tasks of this project. Have fun!

0x12. Web stack debugging #2

DevOps

SysAdmin

Scripting

Debugging

Weight: 1

 Project over - took place from Apr 15, 2024 4:00 AM to Apr 17, 2024 4:00 AM☒ An auto review will be launched at the deadline

In a nutshell...

- **Auto QA review:** 0.0/6 mandatory & 0.0/3 optional
- **Altogether: 0.0%**
 - Mandatory: 0.0%
 - Optional: 0.0%
 - Calculation: $0.0\% + (0.0\% * 0.0\%) == 0.0\%$

Concepts

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

- Web stack debugging (/concepts/68)



(/)



Requirements

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: 0.0% (Checks completed: 0.0%)





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
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

☐ Done?

Check your code

Ask for a new correction

>_ Get a sandbox

QA Review

1. Run Nginx as Nginx

mandatory

Score: 0.0% (Checks completed: 0.0%)

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:



```
root@ab6f4542747e:~# ps auxff | grep nginx[  
nginx      884  0.0  0.0  77360  2744 ?        Ss   19:16   0:00 nginx: master proce  
ss /usr/sbin/nginx  
nginx      885  0.0  0.0  77712  2772 ?        S    19:16   0:00 \_ nginx: worker p  
rocess  
nginx      886  0.0  0.0  77712  3180 ?        S    19:16   0:00 \_ nginx: worker p  
rocess  
nginx      887  0.0  0.0  77712  3180 ?        S    19:16   0:00 \_ nginx: worker p  
rocess  
nginx      888  0.0  0.0  77712  3208 ?        S    19:16   0:00 \_ nginx: worker p  
rocess  
root@ab6f4542747e:~#  
root@ab6f4542747e:~# nc -z 0 8080 ; echo $?  
0  
root@ab6f4542747e:~#
```

Repo:

- GitHub repository: alx-system_engineering-devops
- Directory: 0x12-web_stack_debugging_2
- File: 1-run_nginx_as_nginx

☐ Done?

Check your code

Ask for a new correction

>_ Get a sandbox

QA Review

2. 7 lines or less

#advanced

Score: 0.0% (Checks completed: 0.0%)

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?

Check your code

Ask for a new correction

 Get a sandbox

QA Review

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