

# 0x0E. Web stack debugging #1

**DevOpsSysAdminScriptingDebugging**

- By: Sylvain Kalache
- Weight: 1
- Project over - took place from Sep 26, 2022 6:00 AM to Sep 30, 2022 6:00 AM
- An auto review will be launched at the deadline

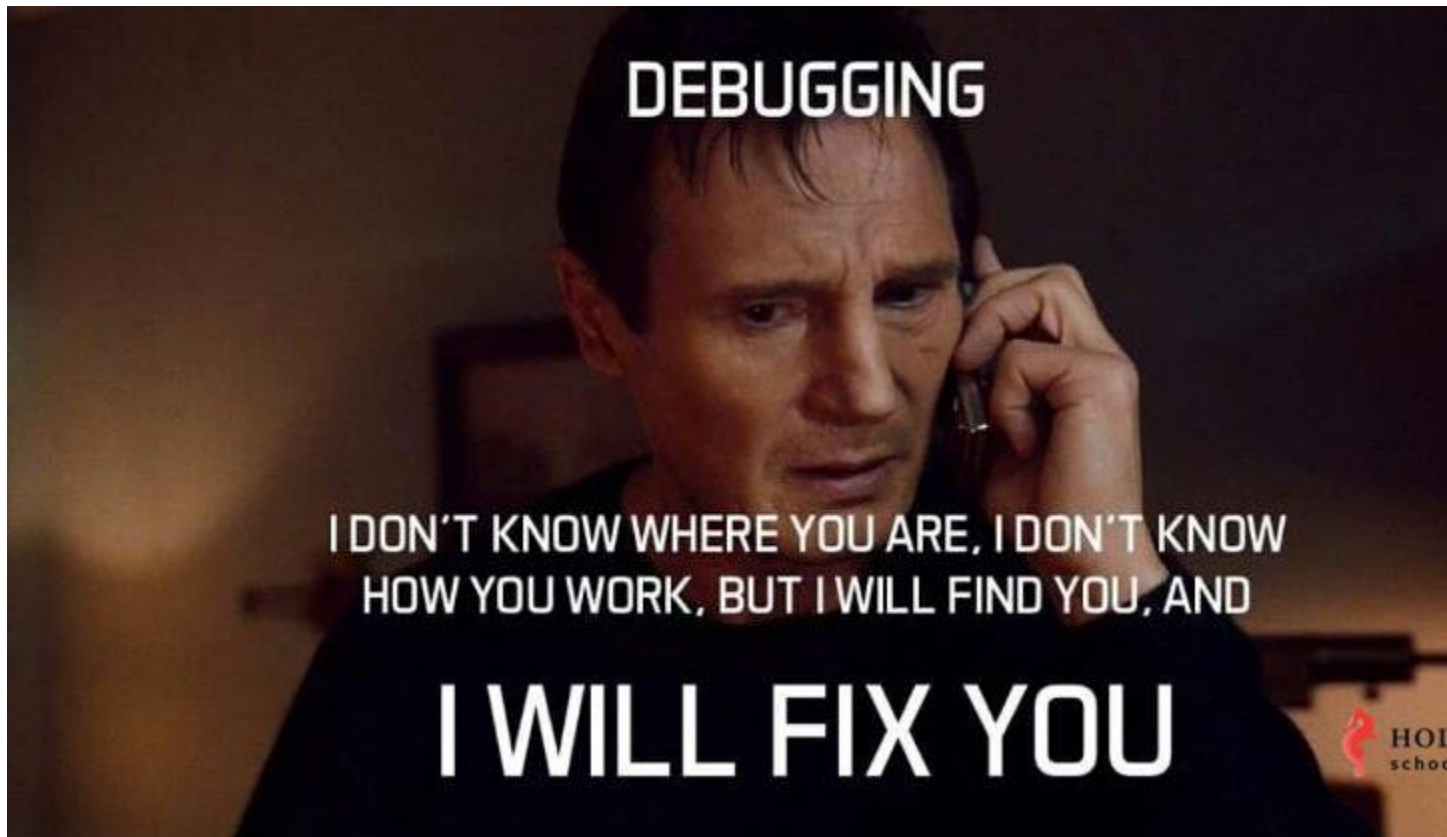
In a nutshell...

- **Auto QA review:** 0.0/3 mandatory & 1.5/3 optional
- **Altogether: 0.0%**
  - Mandatory: 0.0%
  - Optional: 50.0%
  - Calculation:  $0.0\% + (0.0\% * 50.0\%) == 0.0\%$

Concepts

*For this project, we expect you to look at these concepts:*

- [Network basics](#)
- [Web stack debugging](#)



# Requirements

## General

- Allowed editors: `vi`, `vim`, `emacs`
- 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
- You are not allowed to use `wget`

## Tasks

### 0. Nginx likes port 80 mandatory

Score: 0.0% (Checks completed: 0.0%)

Using your debugging skills, find out what's keeping your Ubuntu container's Nginx installation from listening on port `80`. Feel free to install whatever tool you need, start and destroy as many containers as you need to debug the issue. Then, write a Bash script with the minimum number of commands to automate your fix.

Requirements:

- Nginx must be running, and listening on port `80` of all the server's active IPv4 IPs
- Write a Bash script that configures a server to the above requirements

```
root@966c5664b21f:/# curl 0:80
curl: (7) Failed to connect to 0 port 80: Connection refused
root@966c5664b21f:/#
root@966c5664b21f:/# ./0-nginx_likes_port_80 > /dev/null 2&>1
root@966c5664b21f:/#
root@966c5664b21f:/# curl 0:80
<!DOCTYPE html>
<html>
<head>
```

```
<title>Welcome to nginx!</title>
<style>
  body {
    width: 35em;
    margin: 0 auto;
    font-family: Tahoma, Verdana, Arial, sans-serif;
  }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
<p>If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.</p>

<p>For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>.<br/>
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.</p>

<p><em>Thank you for using nginx.</em></p>
</body>
</html>
root@966c5664b21f:/#
```

## Repo:

- GitHub repository: `alx-system_engineering-devops`
- Directory: `0x0E-web_stack_debugging_1`
- File: `0-nginx_likes_port_80`

Done? Help Check your code Ask for a new correction Get a sandbox QA Review

### 1. Make it sweet and short

#advanced

Score: 50.0% (Checks completed: 100.0%)

Using what you did for task #0, make your fix short and sweet.

## Requirements:

- Your Bash script must be 5 lines long or less
- There must be a new line at the end of the file
- You must respect usual 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)
- `service` (init) must say that `nginx` is not running ← for real

```
root@966c5664b21f:/# curl 0:80
curl: (7) Failed to connect to 0 port 80: Connection refused
root@966c5664b21f:/#
root@966c5664b21f:/# cat -e 1-debugging_made_short | wc -l
5
root@966c5664b21f:/# ./1-debugging_made_short
root@966c5664b21f:/# curl 0:80
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
    body {
        width: 35em;
        margin: 0 auto;
        font-family: Tahoma, Verdana, Arial, sans-serif;
    }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
<p>If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.</p>

<p>For online documentation and support please refer to
```

```
<a href="http://nginx.org/">nginx.org</a>.<br/>
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.</p>
```

```
<p><em>Thank you for using nginx.</em></p>
```

```
</body>
```

```
</html>
```

```
root@966c5664b21f:/#
```

```
root@966c5664b21f:/# service nginx status
```

```
 * nginx is not running
```

```
root@966c5664b21f:/#
```

## Repo:

- GitHub repository: `alx-system_engineering-devops`
- Directory: `0x0E-web_stack_debugging_1`
- File: `1-debugging_made_short`