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Curriculum
SE Foundations ⌃
Average: **108.76%** ⌄

0x0E. Web stack debugging #1

DevOps   SysAdmin   Scripting   Debugging

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⚙ Weight: 1

📅 Project over - took place from Sep 4, 2023 6:00 AM to Sep 8, 2023 6:00 AM

☑ An auto review will be launched at the deadline

In a nutshell…

- **Auto QA review:** 3.0/3 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 these concepts:

- Network basics (/concepts/33)
- Web stack debugging (/concepts/68)

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Help

(/)

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: 100.0% (*Checks completed: 100.0%*)

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:

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- 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`

<div style="border:1px solid;display:inline-block;padding:4px">☑ Done!</div> <div style="border:1px solid;display:inline-block;padding:4px">Help</div> <div style="border:1px solid;display:inline-block;padding:4px">Check your code</div> <div style="border:1px solid;display:inline-block;padding:4px">>_ Get a sandbox</div> <div style="border:1px solid;display:inline-block;padding:4px">QA Review</div>

🔍

1. Make it sweet and short   `#advanced`

Score: 100.0% (*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`

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