

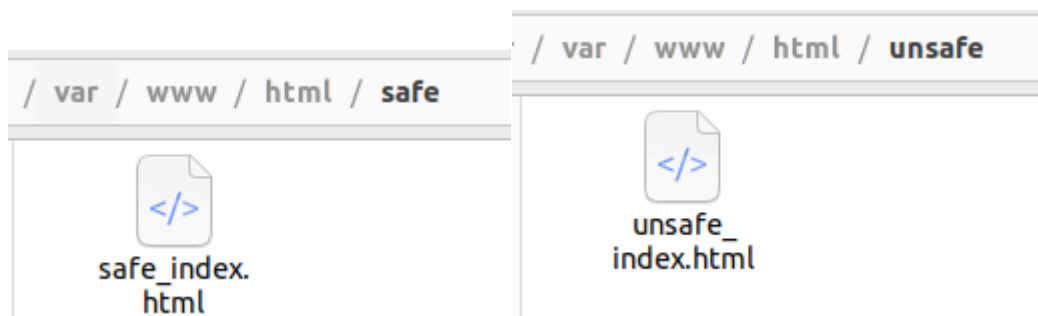
Task 1.1:

Install nginx

```
karrs@nspj24:~$ sudo apt install nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libnginx-mod-http-geoip2 libnginx-mod-http-image-filter
  libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream
  libnginx-mod-stream-geoip2 nginx-common nginx-core
Suggested packages:
  fcgiwrap nginx-doc
The following NEW packages will be installed:
  libnginx-mod-http-geoip2 libnginx-mod-http-image-filter
  libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream
  libnginx-mod-stream-geoip2 nginx nginx-common nginx-core
0 upgraded, 9 newly installed, 0 to remove and 108 not upgraded.
Need to get 697 kB of archives.
After this operation, 2395 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://tw.archive.ubuntu.com/ubuntu jammy-updates/main amd64 ngi
```

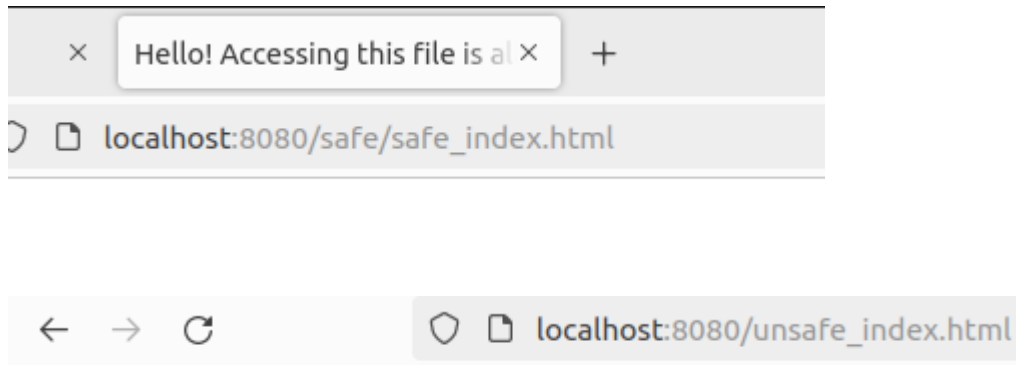
Move files to the root folder of nginx

```
include /etc/nginx/conf.d/*.conf;
server {
    listen 8080;
    location / {
        root /var/www/html;
    }
}
```



Task 1.2:

生成 profile 前:



用 aa-autodep 生成 profile，再將 nginx 設為 complain mode，並且重啟 nginx，再用 aa-logprof 去設定 profile，接著再去 profile 裡面新增題目要求的規則:

```
/var/www/html/safe/* r,
```

```
deny /var/www/html/unsafe/* r,
```

最後再將 nginx 設為 enforce mode，並且重新訪問兩個檔案，就能得到結果。

```
</html>
karrs@nspj24:/etc/apparmor.d$ sudo aa-autodep nginx
[sudo] password for karrs:
Writing updated profile for /usr/sbin/nginx.
karrs@nspj24:/etc/apparmor.d$ sudo aa-complain nginx
Setting /usr/sbin/nginx to complain mode.
karrs@nspj24:/etc/apparmor.d$ sudo service nginx restart
karrs@nspj24:/etc/apparmor.d$ sudo aa-logprof
Updating AppArmor profiles in /etc/apparmor.d.
Reading log entries from /var/log/syslog.
Complain-mode changes:

Profile:    /usr/sbin/nginx
Capability: dac_override
Severity:   9
```

```
# Last Modified: Sat Apr 27 15:50:05 2024
abi <abi/3.0>,

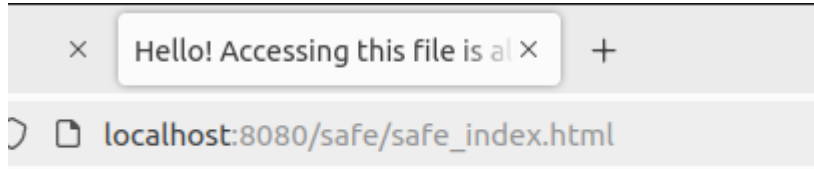
include <tunables/global>

/usr/sbin/nginx flags=(complain) {
    include <abstractions/apache2-common>
    include <abstractions/base>
    include <abstractions/dovecot-common>
    include <abstractions/evince>
    include <abstractions/openssl>
    include <abstractions/web-data>

    capability dac_override,
    capability setgid,
    capability setuid,

    /var/www/html/safe/* r,
    deny /var/www/html/unsafe/* r,
    /usr/sbin/nginx mr,
    /var/log/nginx/access.log w,
    /var/log/nginx/error.log w,
    owner /etc/group r,
    owner /etc/nginx/conf.d/ r,
    owner /etc/nginx/mime.types r,
    owner /etc/nginx/modules-enabled/ r,
    owner /etc/nginx/nginx.conf r,
    owner /etc/nsswitch.conf r,
    owner /etc/passwd r,
    owner /run/nginx.pid rw,
}
```

```
karrs@nspj24:/etc/apparmor.d$ sudo aa-enforce nginx
Setting /usr/sbin/nginx to enforce mode.
```

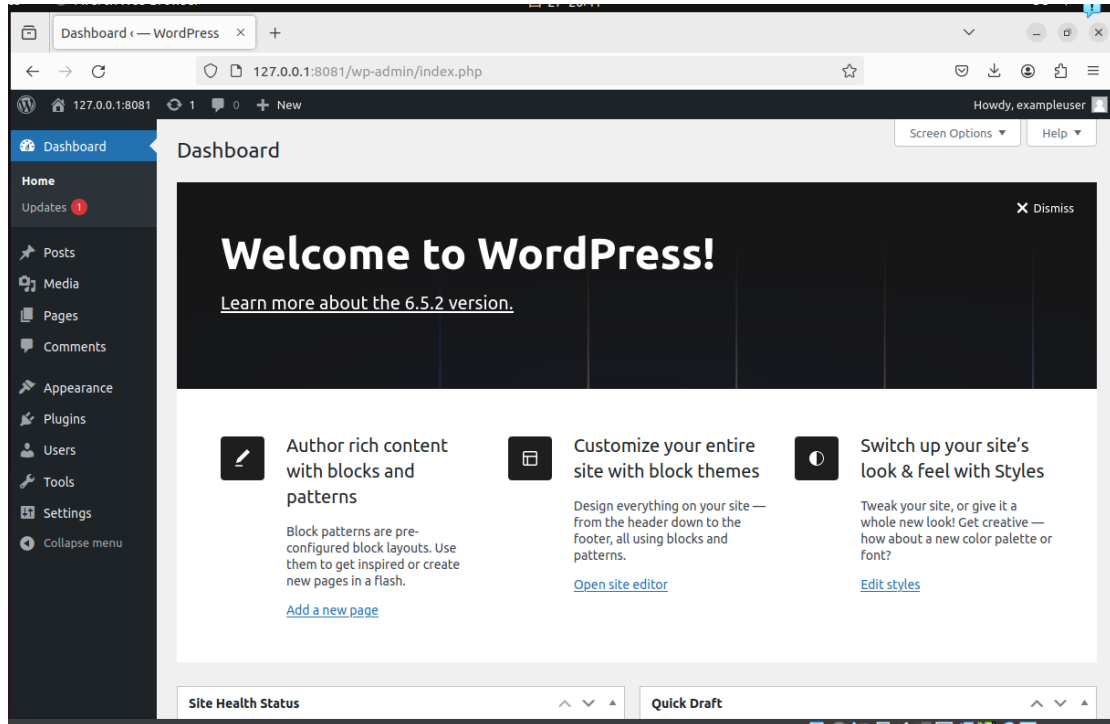


403 Forbidden

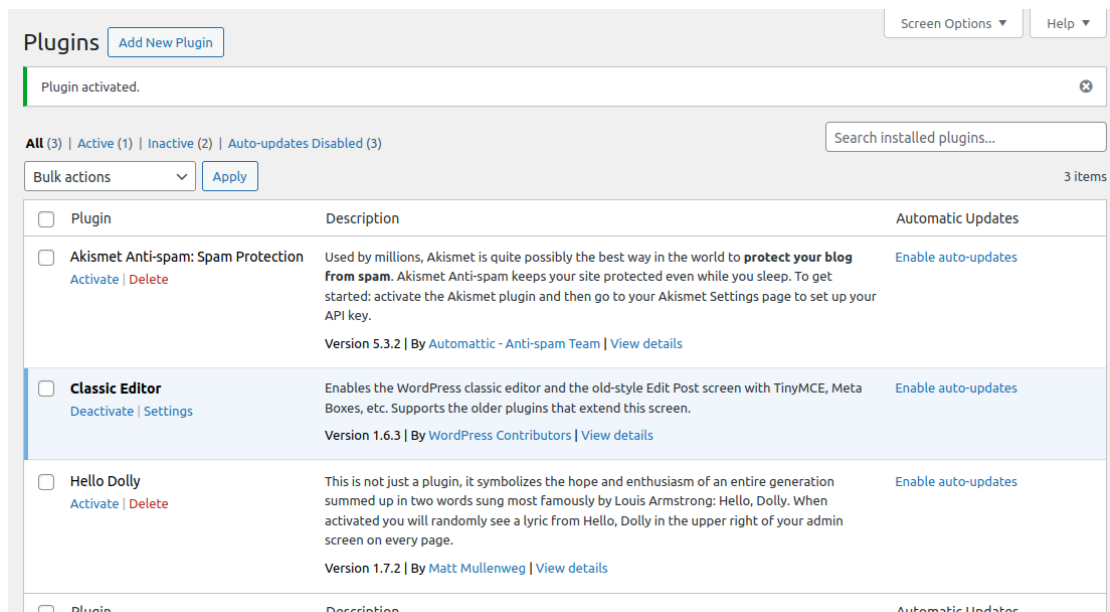
nginx/1.18.0 (Ubuntu)

Task 2:

Login wordpress



Add a new plugin “Classic Editor”



Create profile nspj-docker_110550063

```

1 #include <tunables/global>
2
3
4 profile nspj-docker_110550063 flags=(attach_disconnected,mediate_deleted) {
5
6     #include <abstractions/base>
7
8
9     deny network inet,
10    deny network inet6,
11    deny network raw,
12    capability,
13    file,
14    umount,
15
16    deny @{PROC}/{*,**^[0-9*],sys/kernel/shm*} wx,
17    deny @{PROC}/sysrq-trigger rwkx,
18    deny @{PROC}/mem rwkx,
19    deny @{PROC}/kmem rwkx,
20    deny @{PROC}/kcore rwkx,
21
22    deny mount,
23
24    deny /sys/[^f]/** wlx,
25    deny /sys/f[^s]/** wlx,
26    deny /sys/fs[^c]/** wlx,
27    deny /sys/fs/c[^g]/** wlx,
28    deny /sys/fs/cg[^r]/** wlx,
29    deny /sys/firmware/efi/efivars/** rwkx,
30    deny /sys/kernel/security/** rwkx,
31
32    deny /var/www/html/wp-content/plugins/** wlx,
33    deny /var/www/html/wp-content/themes/** wlx,
34    owner /var/www/html/wp-content/uploads/** rw,
35 }

```


並在 docker-compose.yml 裡新增

```

# TODO: attach the apparmor profile to
security_opt:
  - apparmor=nspj-docker_110550063

```

測試下載 plugin，發現會被擋掉



Health Check & Troubleshooting

Health Check identifies common problems, and helps you troubleshoot plugin and theme conflicts.

By The WordPress.org community

Installation failed.

[More Details](#)

我覺得這次困難的点在於找到資源，一開始找的時候都找不到可用的教學，後來是參考了同學的意見才成功找到