

KringleCon 4: Calling Birds!

Kitchen



1. Click to talk to Tinsel Upatree

Hiya hiya, I'm Tinsel Upatree!

Say, do you know what's going on next door?

I'm a bit worried about the whole FrostFest event.

It feels a bit... ill-conceived, somehow. Nasty even.

Well, regardless - and more to the point, what do you know about tracing processes in Linux?

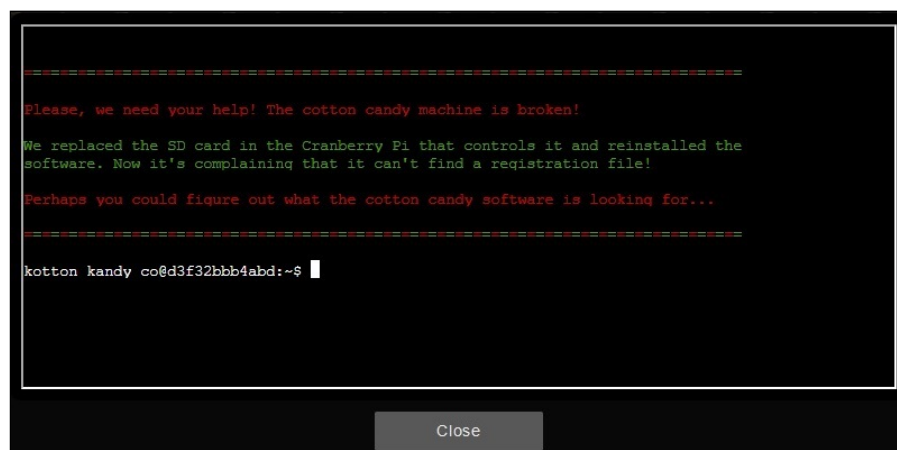
We rebuilt this here Cranberry Pi that runs the cotton candy machine, but we seem to be missing a file.

Do you think you can use strace or ltrace to help us rebuild the missing config?

We'd like to help some of our favorite children enjoy the sweet spun goodness again!

And, if you help me with this, I'll give you some hints about using Wireshark filters to look for unusual options that might help you achieve Objectives here at the North Pole.

2. Click Strace Ltrace Retrace Cranberry Pi terminal



3. Type `ls`

```
make_the_candy*
```

4. Type `ltrace ./make_the_candy`

```
fopen("registration.json", "r")                = 0
puts("Unable to open configuration fil"...Unable to open configuration file.
)                = 35
+++ exited (status 1) +++
```

5. Type `echo "{}" > registration.json`6. Type `ltrace ./make_the_candy`

```
fopen("registration.json", "r")                = 0x55af40de6260
getline(0x7ffe2a5708a0, 0x7ffe2a5708a8, 0x55af40de6260, 0x7ffe2a5708a8) = 3
strstr("{}\n", "Registration")                = nil
getline(0x7ffe2a5708a0, 0x7ffe2a5708a8, 0x55af40de6260, 0x7ffe2a5708a8) = -1
puts("Unregistered - Exiting."Unregistered - Exiting.
)                = 24
+++ exited (status 1) +++
```

7. Type `echo "{ Registration }" > registration.json`8. Type `ltrace ./make_the_candy`

```
fopen("registration.json", "r")                = 0x55d160a41260
getline(0x7ffda9f6eec0, 0x7ffda9f6eec8, 0x55d160a41260, 0x7ffda9f6eec8) = 17
strstr("{ Registration }\n", "Registration")    = "Registration }\n"
strchr("Registration }\n", ':')                = nil
getline(0x7ffda9f6eec0, 0x7ffda9f6eec8, 0x55d160a41260, 0x7ffda9f6eec8) = -1
puts("Unregistered - Exiting."Unregistered - Exiting.
)                = 24
+++ exited (status 1) +++
```

9. Type `echo "{ Registration : }" > registration.json`

10. Type `ltrace ./make_the_candy`

```

fopen("registration.json", "r")                = 0x55d4c6440260
getline(0x7ffd2c653670, 0x7ffd2c653678, 0x55d4c6440260, 0x7ffd2c653678) = 20
strstr("{ Registration : }\n", "Registration") = "Registration : }\n"
strchr("Registration : }\n", ':')              = ": }\n"
strstr(": }\n", "True")                       = nil
getline(0x7ffd2c653670, 0x7ffd2c653678, 0x55d4c6440260, 0x7ffd2c653678) = -1
puts("Unregistered - Exiting."Unregistered - Exiting.
)                                              = 24
+++ exited (status 1) +++

```

11. Type `echo "{ Registration : True }" > registration.json`12. Type `./make_the_candy`

Launching...

```

      *                      *
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.
.
    *          *
  *          *
 *          *
*          *
 *          *
  *          *
    *          *
      *          *
        **
Candy making in progress

```



New [Achievement] Unlocked: Strace Ltrace Retrace!

[Click here to see this item in your badge.](#)

13. Click the `Close` button14. Click to talk to `Tinsel Upatree`

Great! Thanks so much for your help!

I'm sure I can put those skills I just learned from you to good use.

Are you familiar with RFC3514?



15. Click to talk to **Tinsel Upatree**

Wireshark uses a different name for the Evil Bit: `ip.flags.rb`.

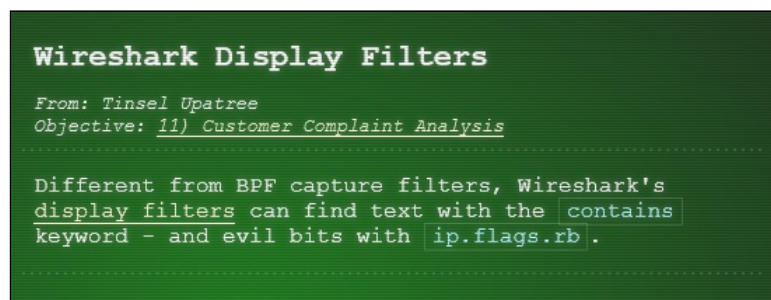
HTTP responses are often gzip compressed. Fortunately, Wireshark decompresses them for us automatically.

You can search for strings in Wireshark fields using display filters with the `contains` keyword.

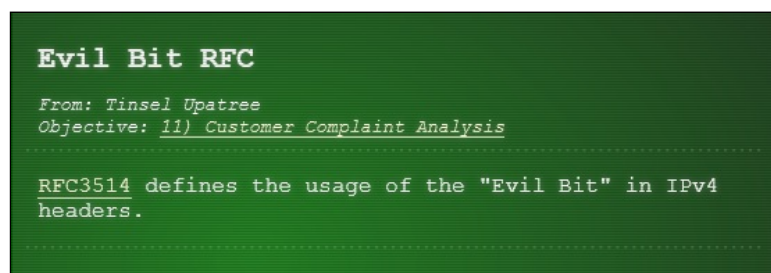


16. Click the **i** (Hints) icon

17. Click **Wireshark Display Filters**



18. Click **Evil Bit RFC**



19. Click **[Exit]**

20. Move **Right** to enter the Great Room

21. Move **Down** and then **Left** to enter Entry

22. Click **Destinations** (map icon) and then click **Talks Lobby**