KringleCon 4: Calling Birds!

Entry



1. Click to talk to Fity Shortstack

Hiya, I'm Fitzy Shortstack!

I was just trying to learn a bit more about YARA with this here Cranberry Pi terminal.

I mean, I'm not saying I'm worried about attack threats from that other con next door, but...

OK. I AM worried. I've been thinking a bit about how malware might bypass YARA rules.

If you can help me solve the issue in this terminal, I'll understand YARA so much better! Would you please check it out so I can learn?

And, I'll tell you what - if you help me with YARA, I'll give you some tips for Splunk!

I think if you make small, innocuous changes to the executable, you can get it to run in spite of the YARA rules.

2. Click Yara Analysis Cranberry Pi terminal



3. Type 1s

```
the_critical_elf_app yara_rules
```

4. Type ./the_critical_elf_app

```
yara_rule_135 ./the_critical_elf_app
```

5. Type ls yara_rules/

```
rules.yar
```

- 6. Type vi yara_rules/rules.yar
- 7. Type /135 {

- 8. Close vi
- 9. Type vi the_critical_elf_app
- 10. Type /candy
- 11. Change candycane to Candycane
- 12. Save the modified file and close vi

13. Type ./the_critical_elf_app

```
yara_rule_1056 ./the_critical_elf_app
```

- 14. Type vi yara_rules/rules.yar
- 15. Type /1056 {

```
      $s1
      ASCII

      6c 6962 632e 736f 2e36
      libc.so.6

      $hs2
      ASCII

      726f 6772 616d 2121
      rogram!!
```

- 16. Close vi
- 17. Type vi the_critical_elf_app
- 18. Type /rogram!!
- 19. Change rogram!! to orgram!!
- 20. Save the modified file and close vi
- 21. Type ./the_critical_elf_app

```
yara_rule_1732 ./the_critical_elf_app
```

- 22. Type vi yara_rules/rules.yar
- 23. Type /1732 {

- 24. Type vi the_critical_elf_app
- 25. Type __frame
- 26. Change the following

String	Modified String
frame_dummy_init_array_entry	frame_dummy_init_Array_entry
.note.gnu.property	.note.gnu.Property
.eh_frame_hdr	.eh_frame_Hdr
FRAME_END	FRAME_eND
GNU_EH_FRAME_HDR	GNU_EH_FRAME_hDR
frame_dummy	frame_Dummy
.note.gnu.build-id	.note.gnu.build-Id
.note.ABI-tag	.note.ABI-Tag
naughty string	naughty String
dastardly string	dastardly String
do_global_dtors_aux_fini_array_entry	do_global_dtors_aux_fini_array_Entry
its_a_holly_jolly_variable	its_a_Holly_jolly_variable

String

Modified String

HolidayHackChallenge{NotReallyAFlag}

HolidayHackChallenge{NotReallyaFlag}

27. Save the modified file and close vi

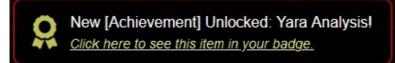
28. Type ./the_critical_elf_app

Machine Running..

Toy Levels: Very Merry, Terry

Naughty/Nice Blockchain Assessment: Untampered Candy Sweetness Gauge: Exceedingly Sugarlicious

Elf Jolliness Quotient: 4a6f6c6c7920456e6f7567682c204f76657274696d6520417070726f766564



29. Click the Close button

30. Click to talk to Fity Shortstack

Thanks - you figured it out!

Let me tell you what I know about Splunk.

Did you know Splunk recently added support for new data sources including Sysmon for Linux and GitHub Audit Log data?

Between GitHub audit log and webhook event recording, you can monitor all activity in a repository, including common git commands such as git add, git status, and git commit.

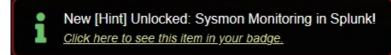


31. Click to talk to Fity Shortstack

You can also see cloned GitHub projects. There's a lot of interesting stuff out there. Did you know there are repositories of code that are Darn Vulnerable?

Sysmon provides a lot of valuable data, but sometimes correlation across data types is still necessary.

Sysmon network events don't reveal the process parent ID for example. Fortunately, we can pivot with a query to investigate process creation events once you get a process ID.



32. Click to talk to Fity Shortstack

Sometimes Sysmon data collection is awkward. Pipelining multiple commands generates multiple Sysmon events, for example.

Did you know there are multiple versions of the Netcat command that can be used maliciously? nc.openbsd, for example.



- 33. Click the i (Hints) icon
- 34. Click Malicious NetCat??

Malicious NetCat?? From: Fitzy Shortstack Objective: 9) Splunk! Did you know there are multiple versions of the Netcat command that can be used maliciously? nc.openbsd, for example.

35. Click Sysmon Monitoring in Splunk

Sysmon Monitoring in Splunk From: Fitzy Shortstack Objective: 9) Splunk! Sysmon network events don't reveal the process parent ID for example. Fortunately, we can pivot with a query to investigate process creation events once you get a process ID.

36. Click GitHub Monitoring in Splunk

GitHub Monitoring in Splunk From: Fitzy Shortstack Objective: 9) Splunk! Between GitHub audit log and webhook event recording, you can monitor all activity in a repository, including common git commands such as git add, git status, and git commit.

37. Click [Exit]

38. Click to talk to Sparkle Redberry

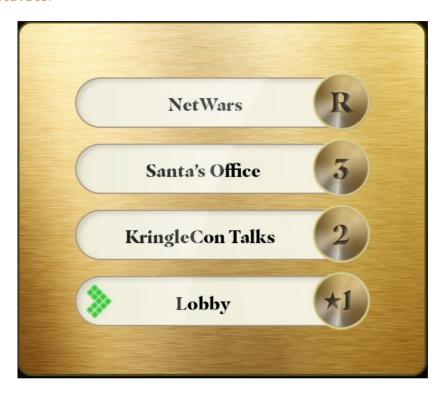
Hey there! I'm Sparkle Redberry.

This year, the Santavator is in top working shape! We ironed out all of the issues from last year with it.

As for that tower next door, I hear they have an elevator of some sort too.

I just don't know if it would take me anywhere I'd really want to go.

39. Click the Santavator



- 41. Click 2 to move to the Talks Lobby
- 42. Click the Santavator
- 43. Click 3 to move to Santa's Office
- 44. Click the Santavator
- 45. Click R to move to NetWars
- 46. Click the Santavator
- 47. Click *1 to move to the Lobby
- 48. Move Left and enter the Dining Room