Terminal--Dev Ops Fail (Part 2)

Solution

This is what the terminal looks like.


```
Coalbox again, and I've got one more ask.
Sparkle Q. Redberry has fumbled a task.
Git pull and merging, she did all the day;
With all this gitting, some creds got away.

Urging - I scolded, "Don't put creds in git!"
She said, "Don't worry - you're having a fit.
If I did drop them then surely I could,
Upload some new code done up as one should."

Though I would like to believe this here elf,
I'm worried we've put some creds on a shelf.
Any who's curious might find our "oops,"
Please find it fast before some other snoops!

Find Sparkle's password, then run the runtoanswer tool.
elf@4724cb07e495:~$
```

First, let's find the Git repository.

```
elf@4724cb07e495:~$ ls -la
total 5832
drwxr-xr-x 1 elf  elf        4096 Dec 14 16:30 .
drwxr-xr-x 1 root root       4096 Dec 14 16:30 ..
-rw-r--r-- 1 elf  elf         220 May 15  2017 .bash_logout
-rw-r--r-- 1 elf  elf        1836 Dec 14 16:13 .bashrc
-rw-r--r-- 1 elf  elf         675 May 15  2017 .profile
drwxr-xr-x 1 elf  elf        4096 Nov 14 09:48 kcconfmgmt
-rwxr-xr-x 1 elf  elf     5944352 Dec 14 16:13 runtoanswer
elf@4724cb07e495:~$
```

There aren't many choices other than the kcconfmgmt directory, what's in there?

```
elf@4724cb07e495:~/kcconfmgmt$ ls -la
total 72
drwxr-xr-x 1 elf elf  4096 Nov 14 09:48 .
drwxr-xr-x 1 elf elf  4096 Dec 14 16:30 ..
drwxr-xr-x 1 elf elf  4096 Nov 14 09:48 .git
-rw-r--r-- 1 elf elf    66 Nov  1 15:30 README.md
-rw-r--r-- 1 elf elf  1074 Nov  3 20:28 app.js
-rw-r--r-- 1 elf elf 31003 Nov 14 09:46 package-lock.json
-rw-r--r-- 1 elf elf   537 Nov 14 09:48 package.json
drwxr-xr-x 1 elf elf  4096 Nov  2 15:05 public
drwxr-xr-x 1 elf elf  4096 Nov  2 15:05 routes
drwxr-xr-x 1 elf elf  4096 Nov 14 09:47 server
drwxr-xr-x 1 elf elf  4096 Nov  2 15:05 views
elf@4724cb07e495:~/kcconfmgmt$
```

That is a Git repository all right. Examine the logs.

```
elf@4724cb07e495:~/kcconfmgmt$ git log
```

Nothing on the first page…

```
commit d84b728c7d9cf7f9bafc5efb9978cd0e3122283d
Author: Sparkle Redberry <sredberry@kringlecon.com>
Date:   Sat Nov 10 19:51:52 2018 -0500

    Add user model for authentication, bcrypt password storage

commit c27135005753f6dde3511a7e70eb27f92f67393f
Author: Sparkle Redberry <sredberry@kringlecon.com>
Date:   Sat Nov 10 08:11:40 2018 -0500

    Add passport config

commit a6449287cf9ed9151d94fb747f6904158c2c4d71
Author: Sparkle Redberry <sredberry@kringlecon.com>
--More--
```

Aha! That was nice of Sparkle to tell us about the password change. Note that the commit hash was 60a2ffea7520ee980a5fc60177ff4d0633f2516b.

```
commit 60a2ffea7520ee980a5fc60177ff4d0633f2516b
Author: Sparkle Redberry <sredberry@kringlecon.com>
Date:   Thu Nov 8 21:11:03 2018 -0500

    Per @tcoalbox admonishment, removed username/password from config.js, default settings in
config.js.def need to be updated before use
```

Let's see what that commit contained, using
git show 60a2ffea7520ee980a5fc60177ff4d0633f2516b

```
elf@4724cb07e495:~/kcconfmgmt$ git show 60a2ffea7520ee980a5fc60177ff4d0633f2516b
commit 60a2ffea7520ee980a5fc60177ff4d0633f2516b
Author: Sparkle Redberry <sredberry@kringlecon.com>
Date:   Thu Nov 8 21:11:03 2018 -0500

    Per @tcoalbox admonishment, removed username/password from config.js, default settings in
config.js.def need to be updated before use

diff --git a/server/config/config.js b/server/config/config.js
deleted file mode 100644
index 25be269..0000000
--- a/server/config/config.js
+++ /dev/null
@@ -1,4 +0,0 @@
-// Database URL
-module.exports = {
-    'url' : 'mongodb://sredberry:twinkletwinkletwinkle@127.0.0.1:27017/node-api'
-};
diff --git a/server/config/config.js.def b/server/config/config.js.def
new file mode 100644
index 0000000..740eba5
--- /dev/null
+++ b/server/config/config.js.def
@@ -0,0 +1,4 @@
+// Database URL
+module.exports = {
+    'url' : 'mongodb://username:password@127.0.0.1:27017/node-api'
+};
elf@4724cb07e495:~/kcconfmgmt$
```

Notice that Git stored a difference (diff) of the changes made in that commit. The red text shows deleted code, which is a connection to the app's Mongo database with username sredberry and password twinkletwinkletwinkle.

Now, claim credit for the answer.

```
elf@4724cb07e495:~/kcconfmgmt$ cd ~
elf@4724cb07e495:~$ ./runtoanswer
Loading, please wait......


Enter Sparkle Redberry's password: twinkletwinkletwinkle


This ain't "I told you so" time, but it's true:
I shake my head at the goofs we go through.
Everyone knows that the gits aren't the place;
Store your credentials in some safer space.

Congratulations!

elf@4724cb07e495:~$
```

Finally, what should Sparkle have done to correct this? Removing the password from the code was a good first step. The second step should have been to change the password.