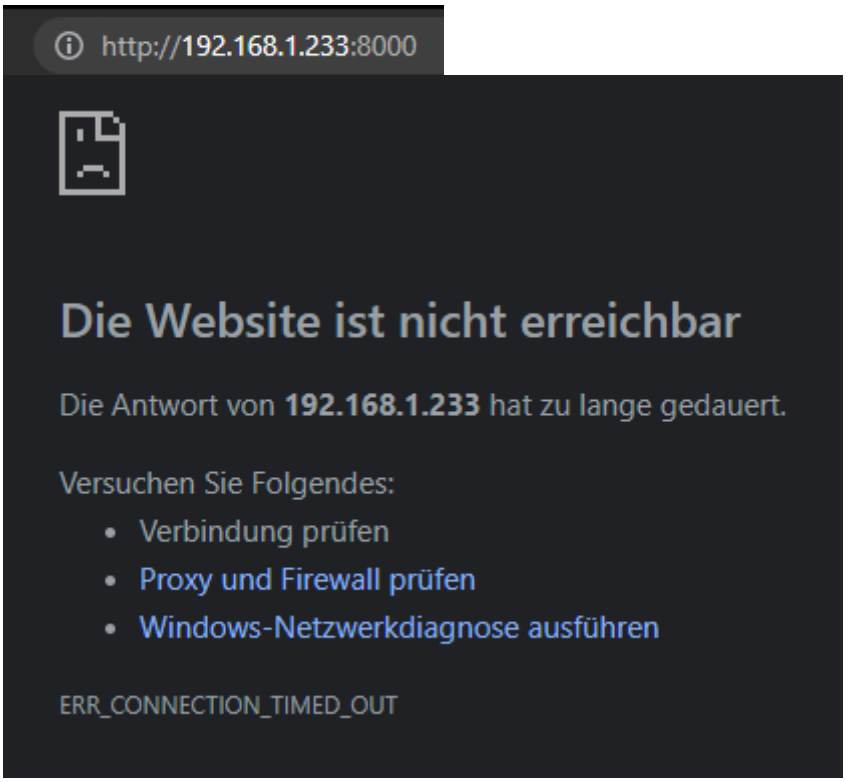
Configure Firewall & Splunk

Open Firewall

When we try to access the login via internal network we won't be able to establish a connection.



The problem is that our machine is refusing connections from outside via port 8000. We need to open the port on the firewall.

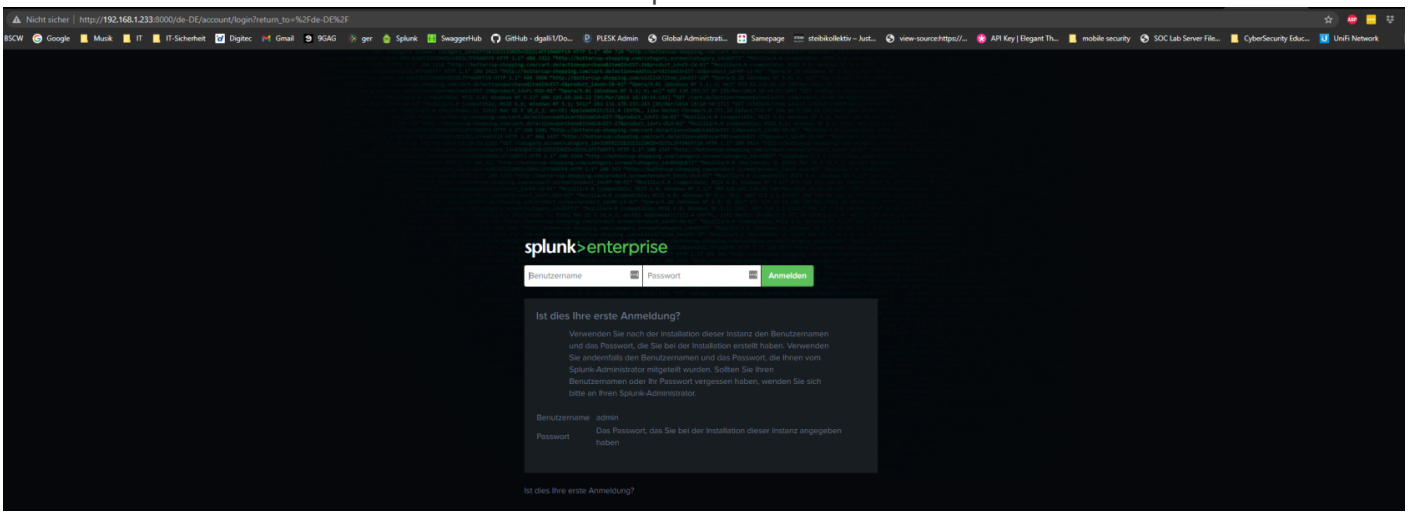
The guide how to change firewall rules can be found here:

https://www.digitalocean.com/community/tutorials/how-to-set-up-a-firewall-using-firewalld-on-centos-8-de

With a simple oneliner we have opened the port:

```
sudo firewall-cmd --zone=public --permanent --add-port=8000/tcp
```

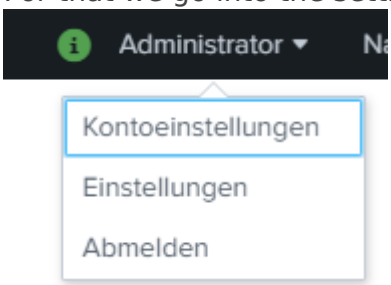
That's it now we need to reboot once and the port is accessible via the network.

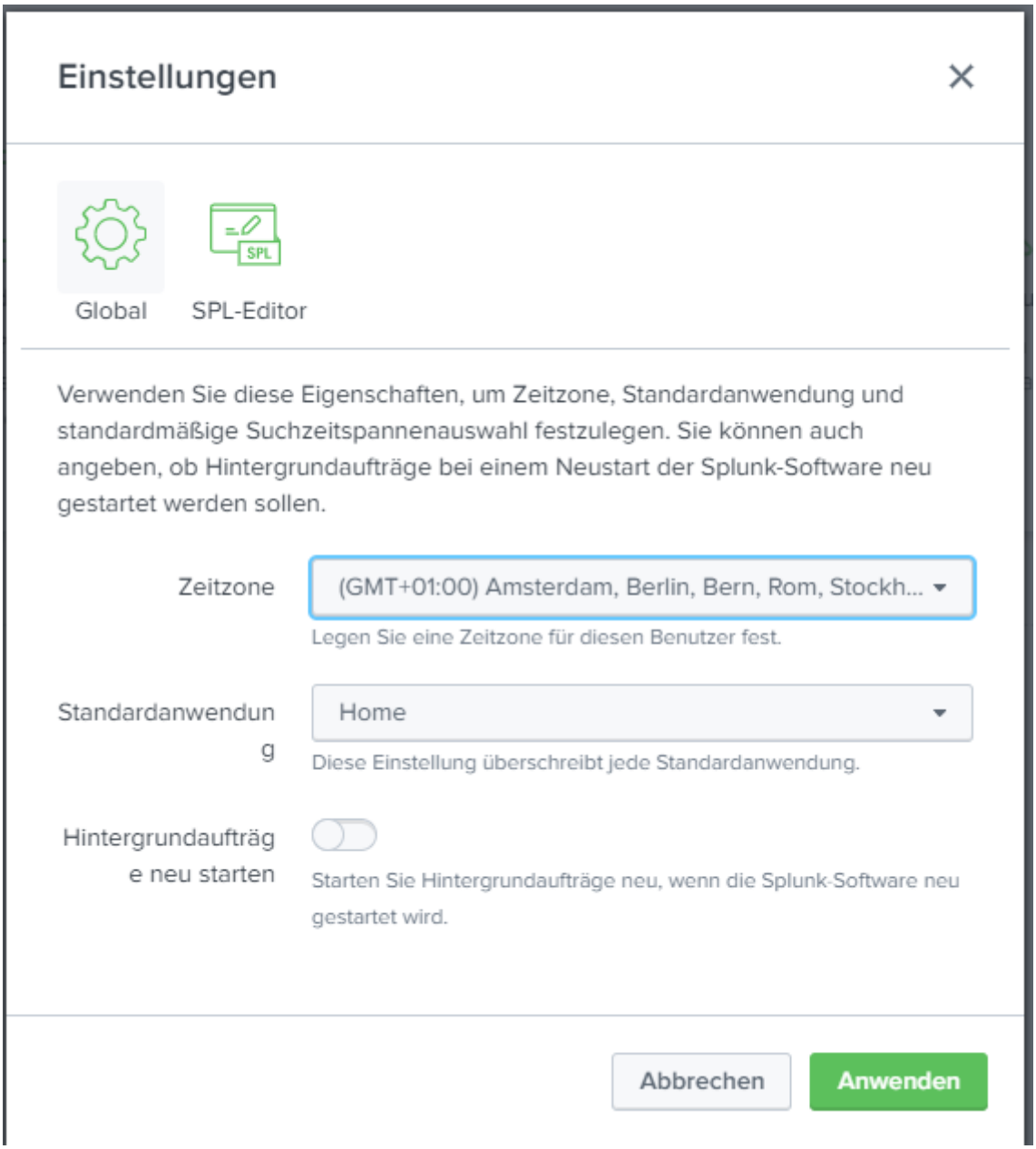


Configure Splunk

Now as Splunk is running we can log in with the defined credentials.

Next step we set the correct timezone and enable HTTPS.
For that we go into the settings below the Administrator Tab.

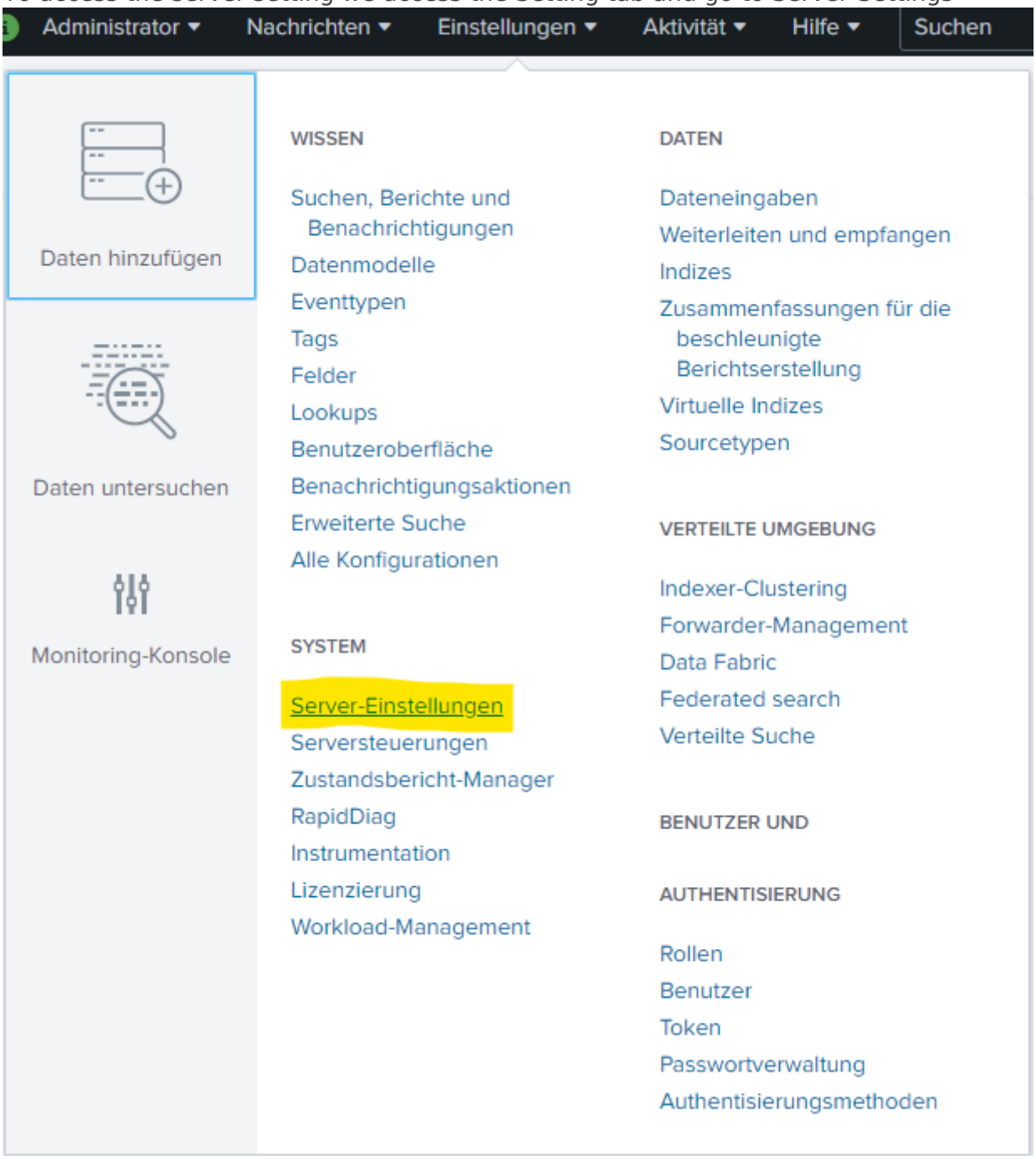




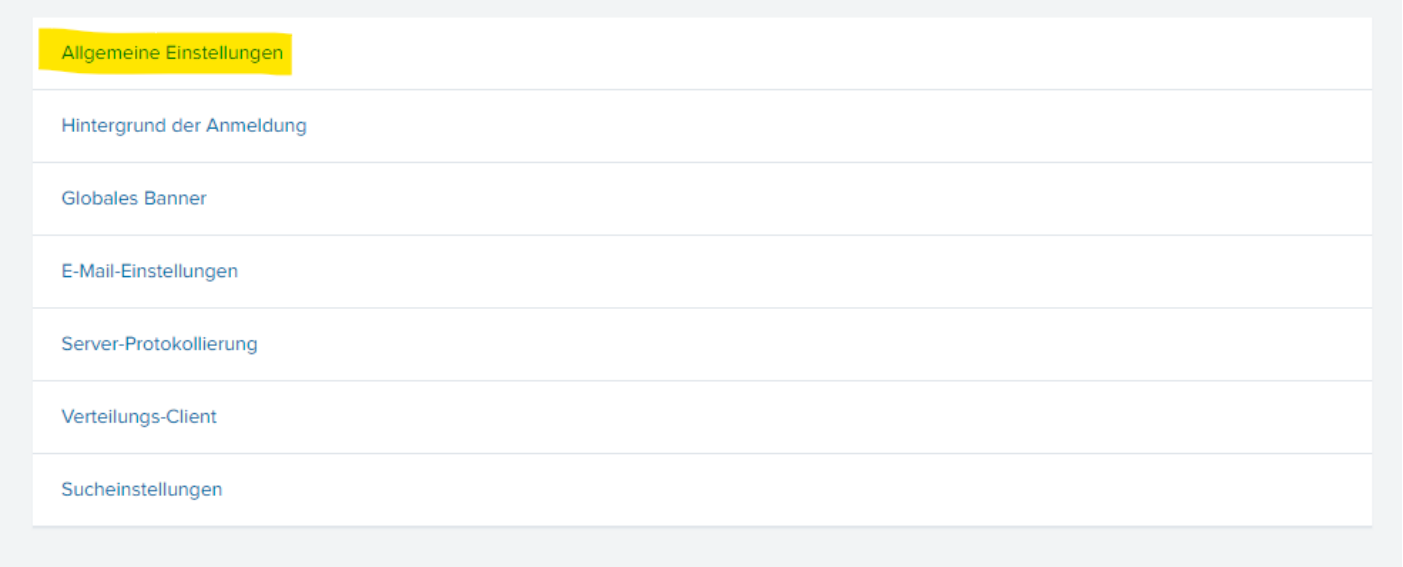
Easy!

Next thing to do is enable HTTPS.

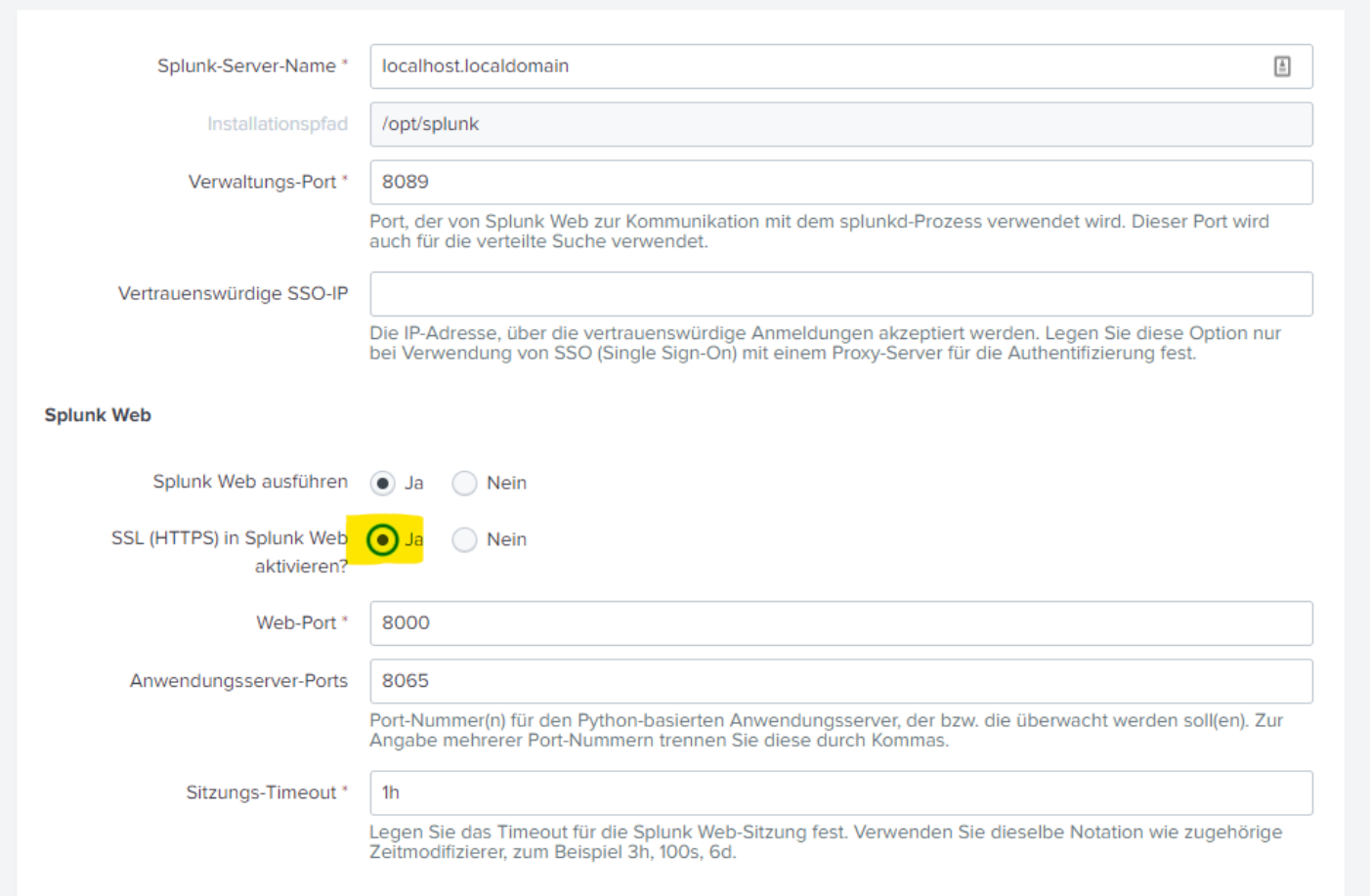
To access the server setting we access the Setting tab and go to Server-Settings



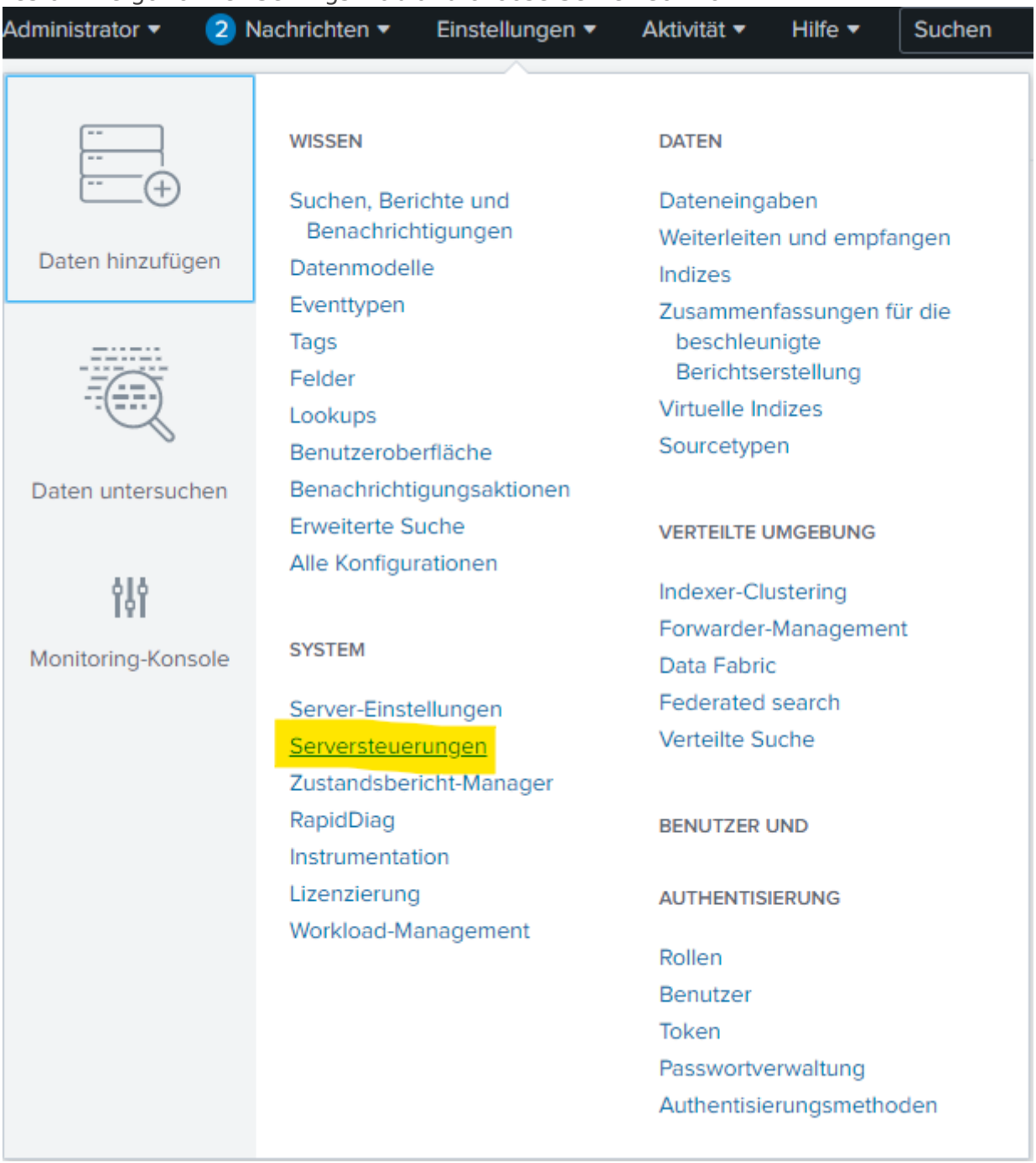
Then we access the general settings



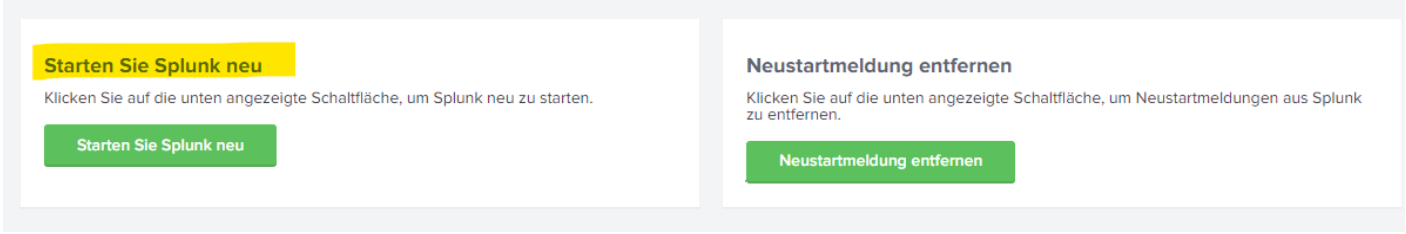
In the general setting we choose "enable HTTPS in Splunk Web":



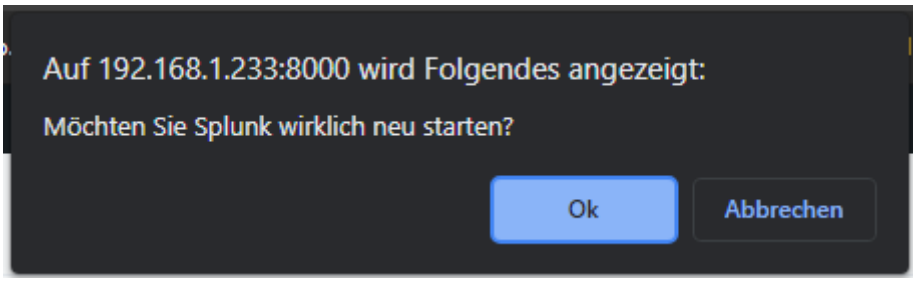
After the HTTPS box is checked we need to perform a restart of the Splunk service. To initiate a restart we go to the "Settings" tab and choose Server-Control:



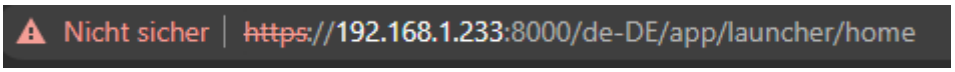
In here we are able to restart the service:



You'll get asked if you really want to restart. Press OK

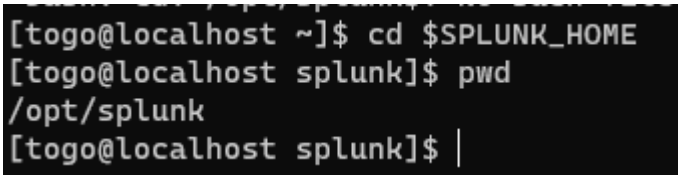


Click on the URL and you'll get redirected to the HTTPS login



Now we are going back to the shell and set the $SPLUNK_HOME environment variable.

```
export SPLUNK_HOME=/opt/splunk
```



Install Apps and Addons

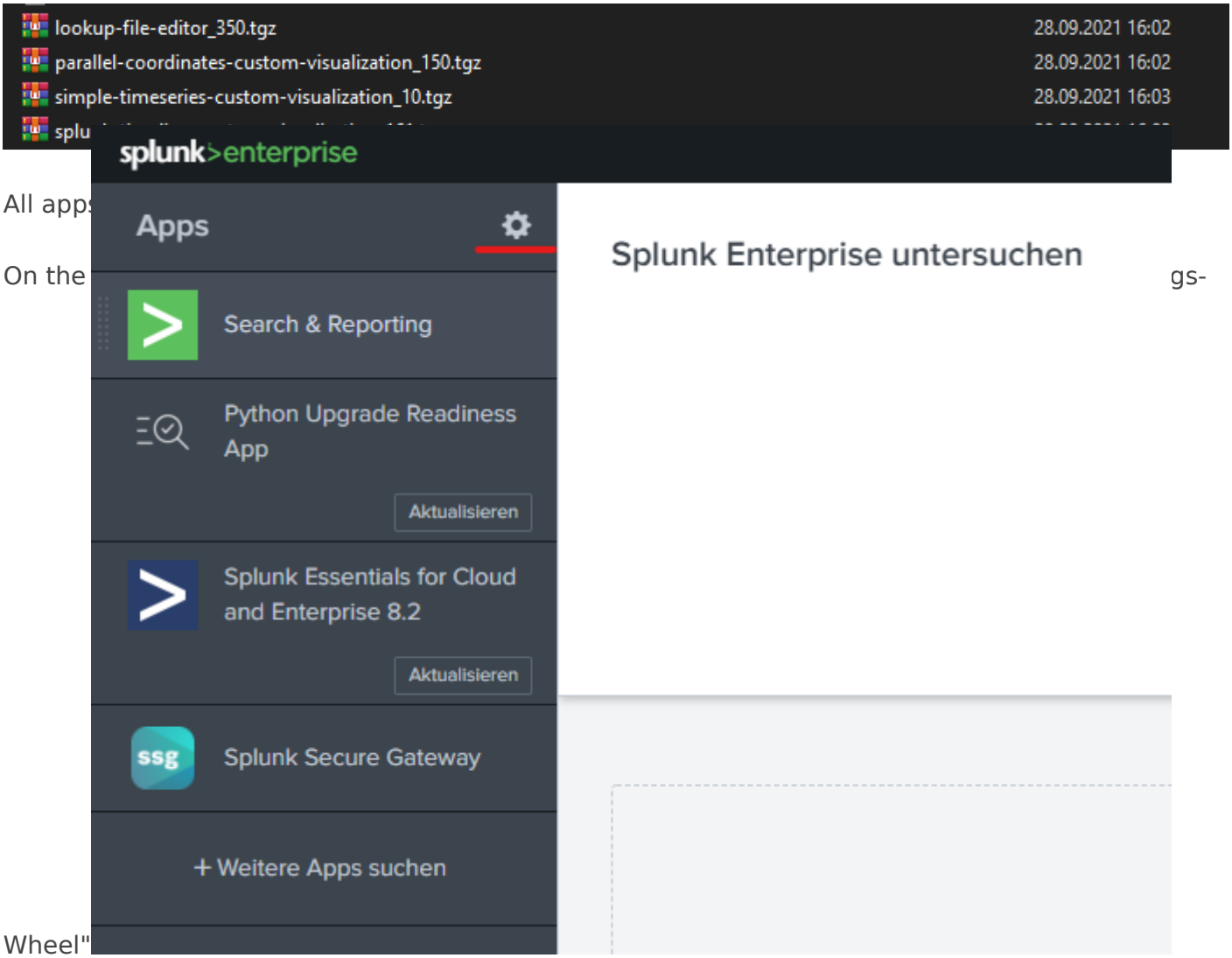
Download following Apps:

Lookup File Editor app (Note: Tested with version 3.0.3)

Parallel Coordinates Custom Visualization (Note: Tested with version 1.2.0)

Simple Timeseries Custom Visualization (Note: Tested with version 1.0)

Timeline Custom Visualization (Note: Tested with version 1.2.0)

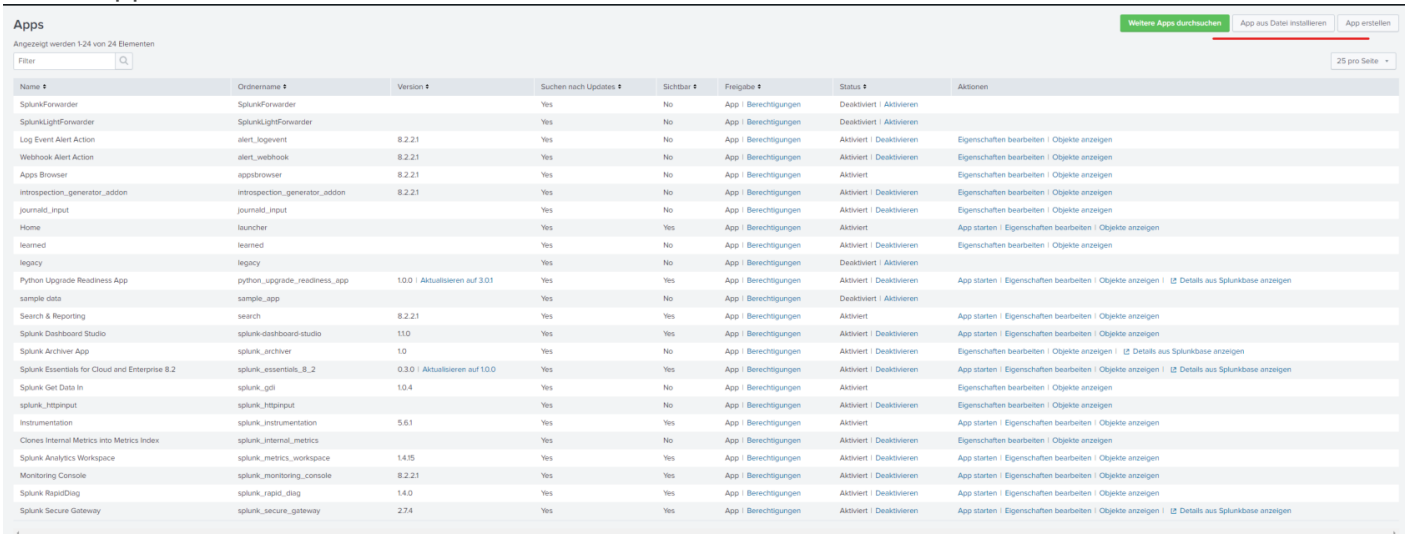


All apps

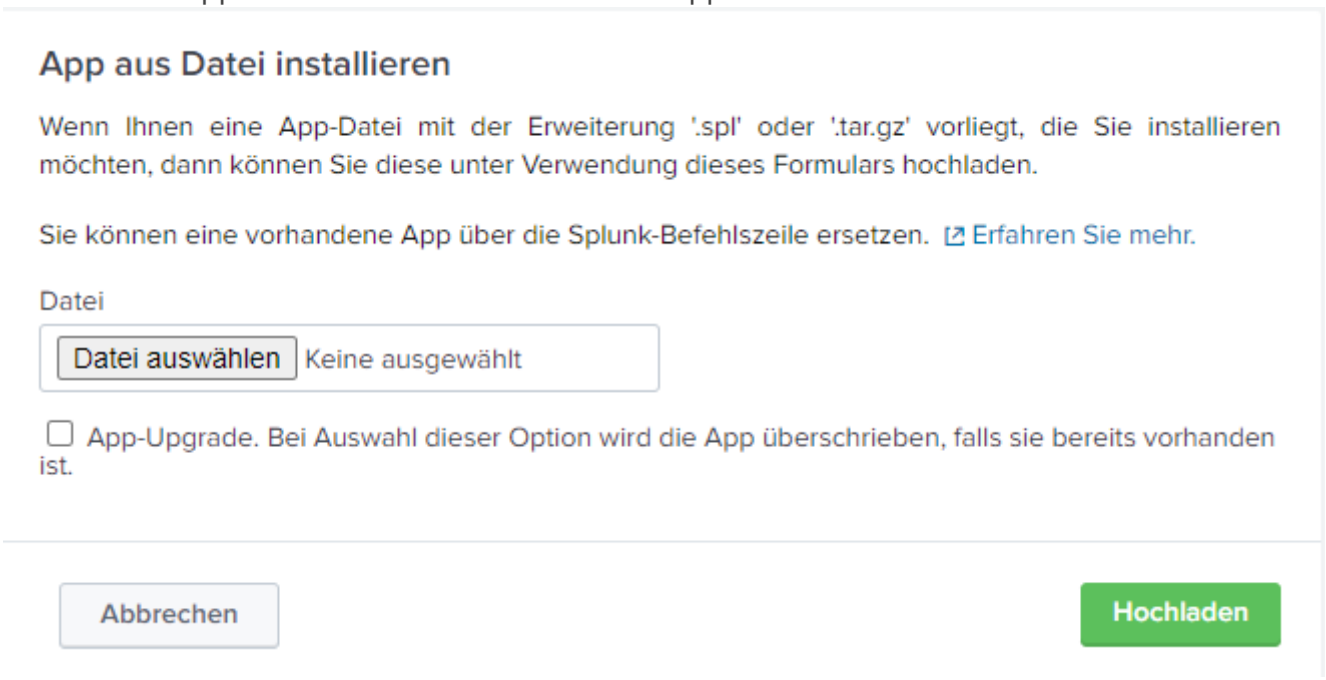
On the gs-

Wheel"

We are getting redirected to the main Apps and Addons page. Top right corner we are able to install apps of a file:

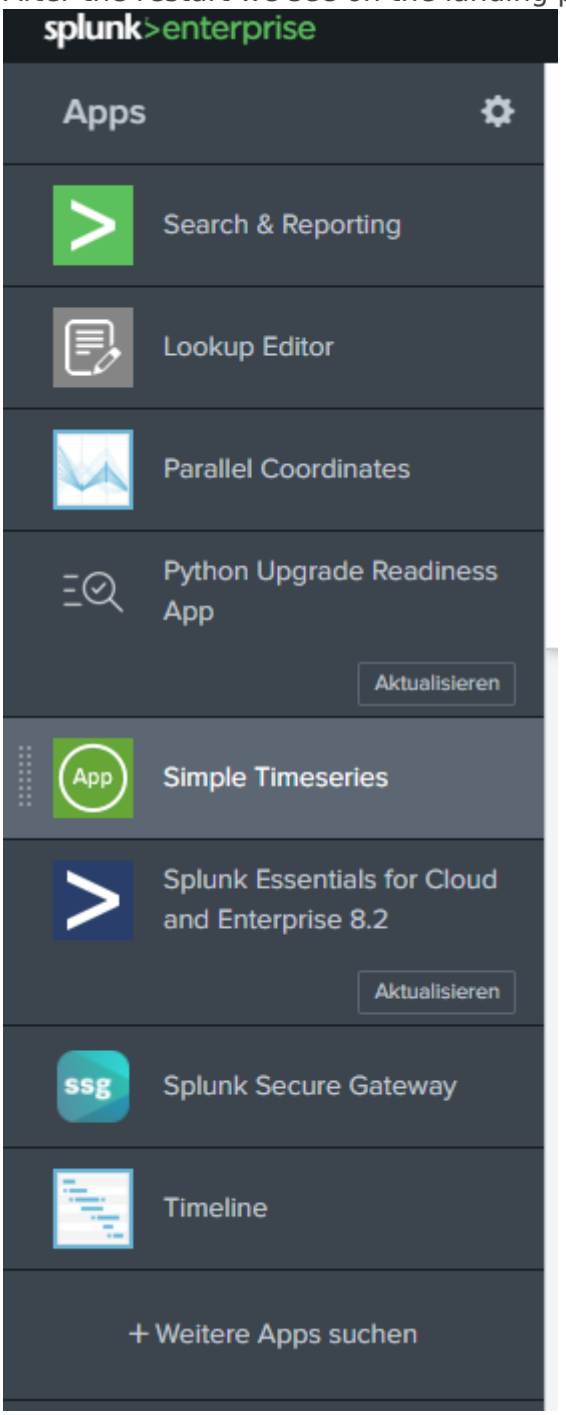


To install an app we click on the button "install app out of file":



Install all apps and restart the service.

After the restart we see on the landing page the newly added apps.



Install CTF Scoreboard

Now we install the CTF Scoreboard. Enter the directory of the apps and clone the repository:

> cd $SPLUNK_HOME/etc/apps

> sudo git clone https://github.com/splunk/SA-ctf_scoreboard

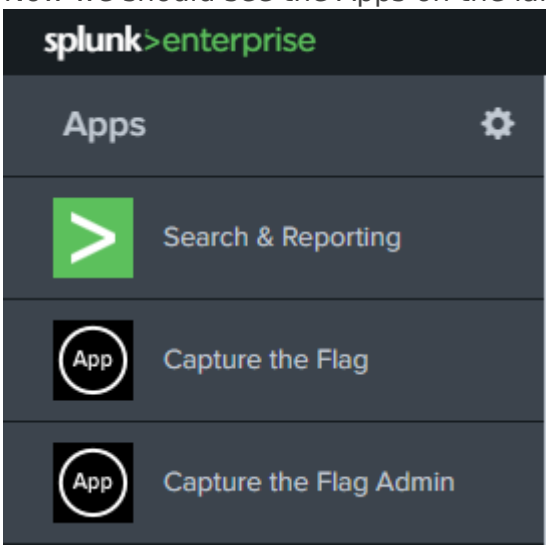
```
[togo@localhost apps]$ sudo git clone https://github.com/splunk/SA-ctf_scoreboard_admin
Cloning into 'SA-ctf_scoreboard_admin'...
remote: Enumerating objects: 459, done.
remote: Counting objects: 100% (17/17), done.
remote: Compressing objects: 100% (14/14), done.
remote: Total 459 (delta 3), reused 6 (delta 0), pack-reused 442
Receiving objects: 100% (459/459), 738.59 KiB | 9.72 MiB/s, done.
Resolving deltas: 100% (113/113), done.
[togo@localhost apps]$ ls
SA-ctf_scoreboard        journald_input              search                  sp
SA-ctf_scoreboard_admin  launcher                    simpletimeseries_app    sp
```

sudo git clone https://github.com/splunk/SA-ctf_scoreboard_admin

After you installed the Scoreboards we need to restart the service

> sudo $SPLUNK_HOME/bin/splunk restart

Now we should see the Apps on the landing page



Next we create the log folder for the scoreboard:

```
sudo mkdir $SPLUNK_HOME/var/log/scoreboard
```

Create CTF Answers service account cabanaboy

By convention this user is called cabanaboy because that’s what any rational person would pick while sitting next to Ryan Kovar

Pick a good strong password, and record it. You will need it again soon. The good news is that it does not need to be easily memorized by a human.

Assign the cabanaboy user to role ctf_answers_service

This can all be accomplished from the command line as follows:

```
sudo  $SPLUNK_HOME/bin/splunk add user cabanaboy -password <password> -role ctf_answers_service -auth admin:<admin_password>
```

Configure Scoreboard controller

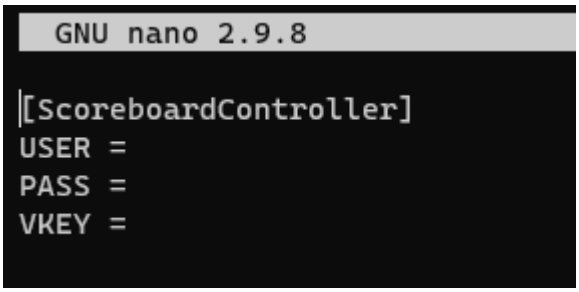
Access the log directory

```
cd $SPLUNK_HOME/etc/apps/SA-ctf_scoreboard/appserver/controllers
```

```
cp scoreboard_controller.config.example scoreboard_controller.config
```

Edit scoreboard_controller.config to reflect the following:

- The CTF Answers service account username (probably cabanaboy)
- The CTF Answers service account password you chose above
- A vkey parameter which should just be a random string, 10-20 characters in length



User: cabanaboy
Pass: **********
VKey: randomstringbytogo

neeed to write from here:

example file is included in the repository.

10. Restart Splunk to recognize the changes to the controller configuration file.

```
$SPLUNK_HOME/bin/splunk restart
```

11. Confirm the custom controller came up properly:

```
ls -l $SPLUNK_HOME/var/log/scoreboard
-rw------- 1 splunk staff 59 Sep 2 14:26 scoreboard.log
-rw------- 1 splunk staff 59 Sep 2 14:26 scoreboard_admin.log
```

12. Set up an admin user

- It does not need to be *the* Splunk admin user, but it can be and often is
- In Splunk Web ensure the admin user has been assigned the following roles:
- admin
- ctf_admin
- can_delete

13. Load sample data

- Log in as the admin user created above
- Navigate to Capture the Flag Admin app
- Click each of the following menu items in turn:
    - Data Management...->Load SAMPLE data (DANGER)->Load sample users/teams
    - Data Management...->Load SAMPLE data (DANGER)->Load sample questions
    - Data Management...->Load SAMPLE data (DANGER)->Load sample answers
    - Data Management...->Load SAMPLE data (DANGER)->Load sample hints
    - Data Management...->Load SAMPLE data (DANGER)->Load sample hint entitlements
    - Data Management...->Load SAMPLE data (DANGER)->Load sample badges
    - Data Management...->Load SAMPLE data (DANGER)->Load sample badge entitlements
    - Data Management...->Load SAMPLE data (DANGER)->Load sample user agreements
- It's not *really* dangerous, but it will overwrite the data you currently have loaded in the game.

https://run-as-root.com/2021/06/08/splunk-botsv3-install-and-configuration/

Revision #3
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