Wi-Fi Stats with Grafana

1. Purpose

To visualize the number of wireless clients connected to aps for all buildings across the campus.

2. Server access

Server: statifi.netops.yorku.ca

User: statclcn

Password: n3t0psgrafana!

3. Grafana visualizations

Website: http://statifi.netops.yorku.ca/

- Username: admin
- Password: T...

4. Code Information

Program location: /home/statclcn/bin/grafana-stats/grafana.py

API Calls

https://dnac11.netops.yorku.ca/dna/system/api/v1/auth/token

https://dnac11.netops.yorku.ca/dna/intent/api/v1/site-health

Description:

This program makes api calls to dnac every 5 minutes to retrieve the number of clients connected to all sites at the current time. This data is then saved to a postgres database for visualizations with grafana.

5. How to run code

Under /home/statclcn/bin/grafana-stats/

Add the DNAC_ USER=username to .env

Add the DNAC_PASS=password to .env

Run `screen -r grafana`

Run `python3 grafana.py`

Potential Issues: if the campus runs into network issues, the code may crash

You can also check grafana.log to see how the code is running.

6. Database

From the server you can access the database as follows:

- Run `sudo su – postgres`
- Run `psql`
- Run `\d wireless_count`