Modem manipulation report.

Modifying default configurations in the modem, making it secure and more useful.

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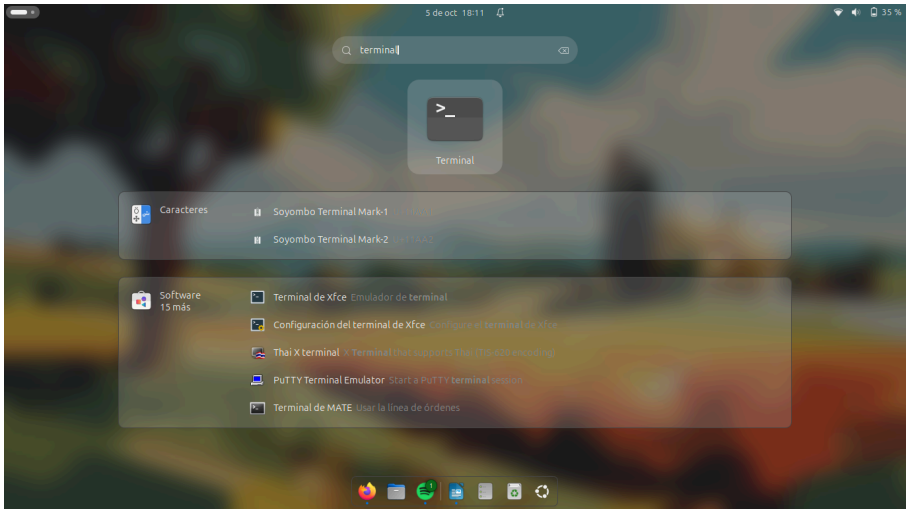
Conexiones de redes WAN

INTRODUCTION

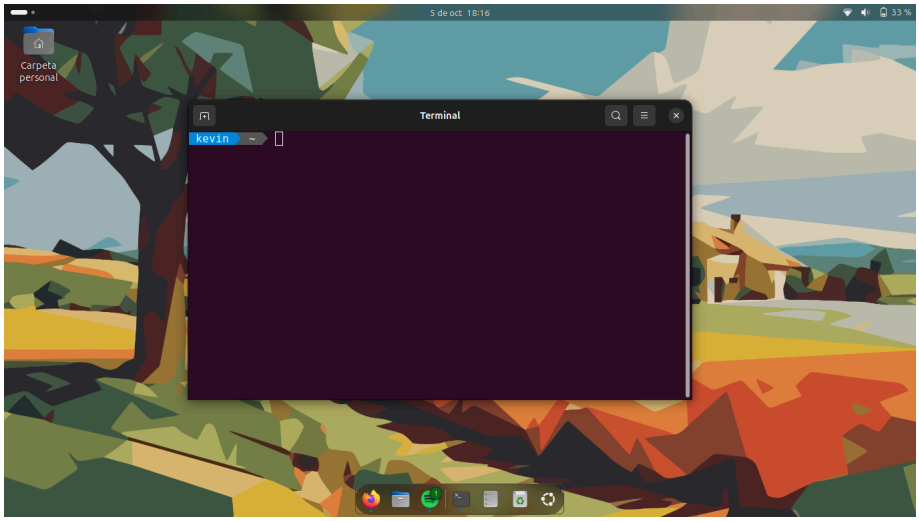
First of all, we need to identify what we are going to do, so let's take some time addressing our goal today: check all the configurations in our house modem, customize the SSID, change the access password and set extra security for our network.

SO LET'S BEGIN:

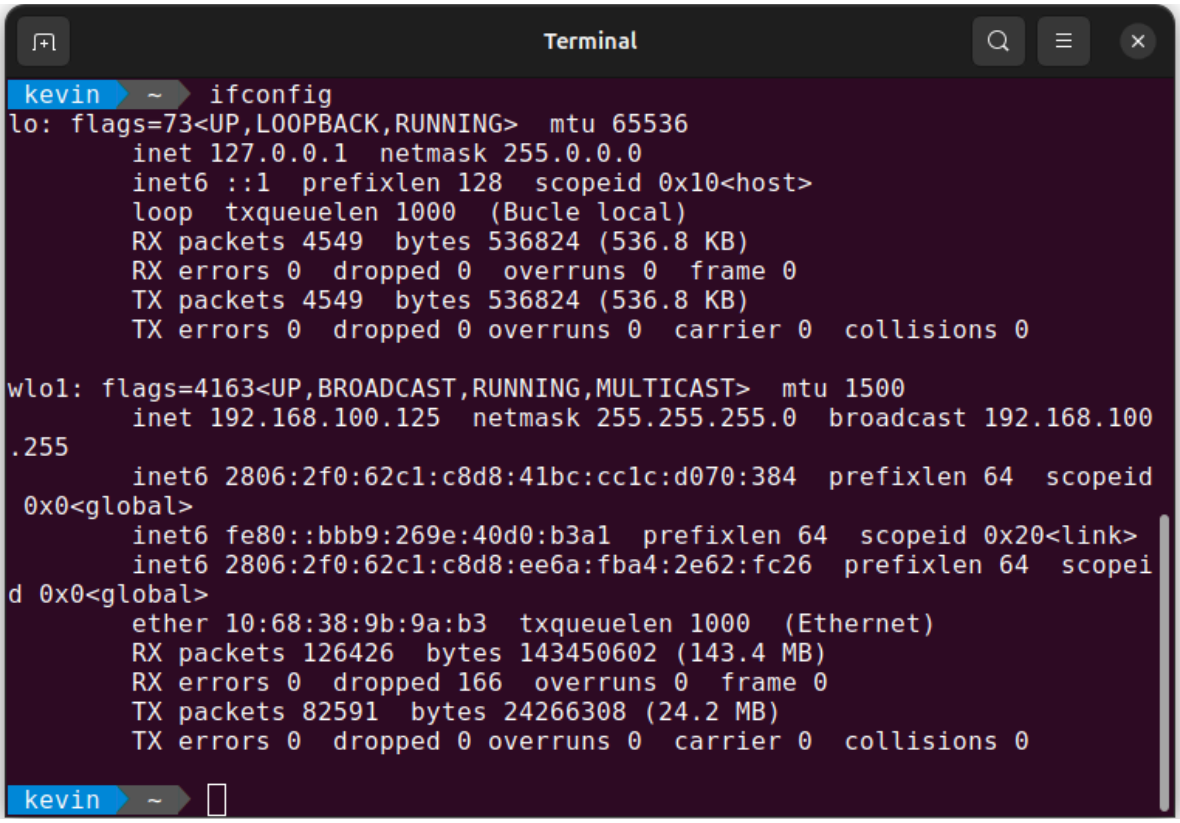
Now, as our first step we will check whats the modem/router page, so we need to do a bit of hacking commands here (sort of haha). We go to our search bar and write "Terminal", then click on it:



We should see something like this:



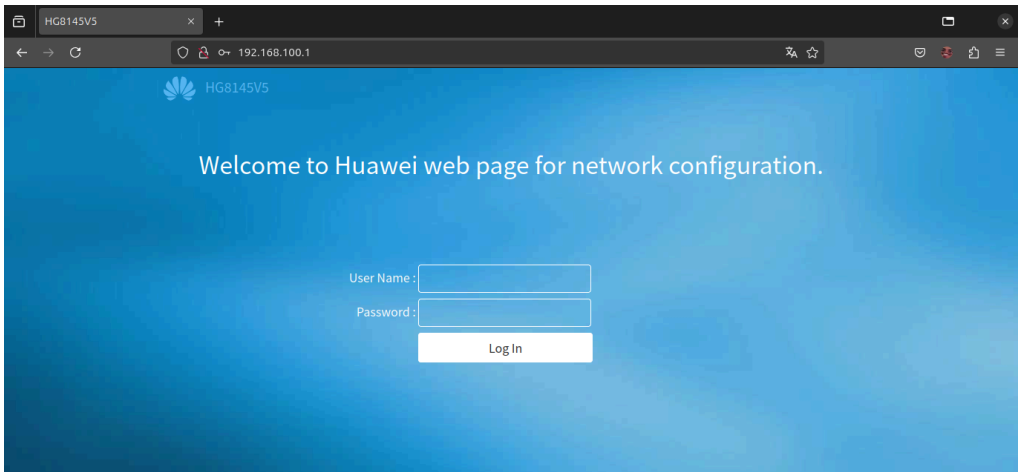
Nice! Now we are one step further to become hackers 😎. Next thing we must do is type ifconfig and should get something like this:



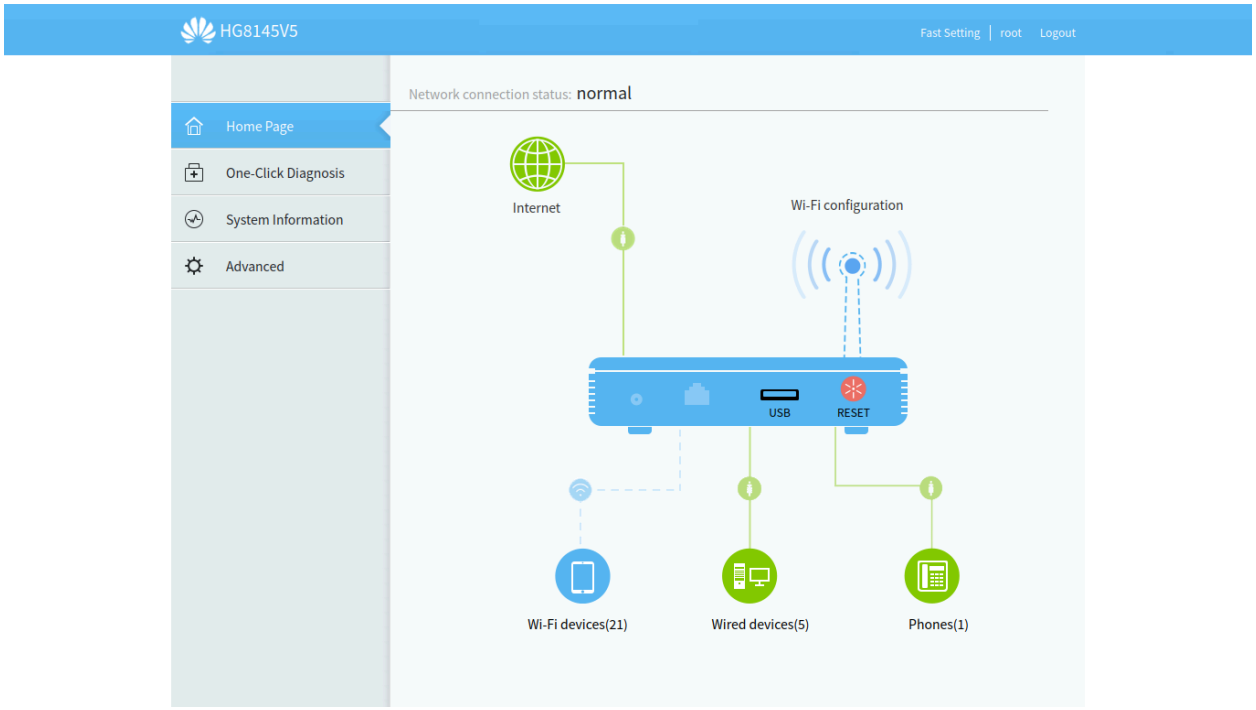
if we look closer in the lines, we'll find the ip route of our pc:

```
wlo1: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.100.125  netmask 255.255.255.0  broadcast 192.168.100.255
```

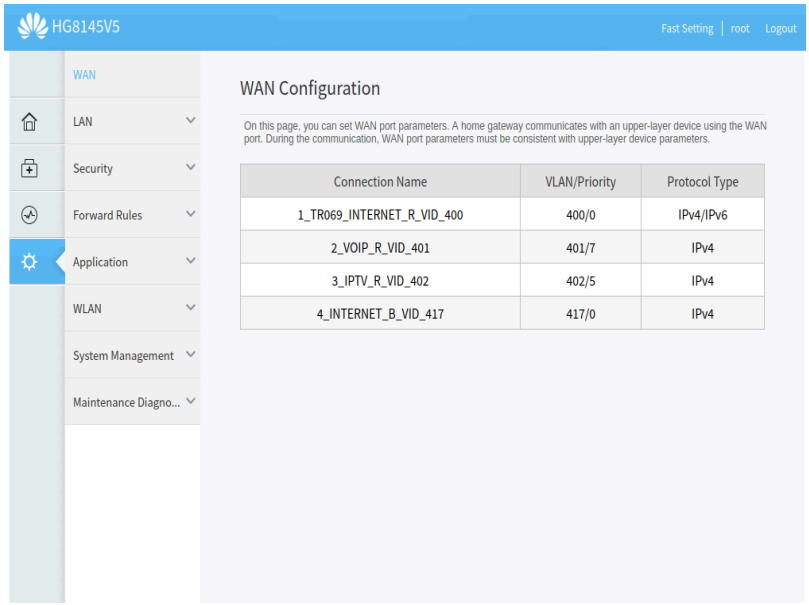
In this segment we'll find that we are in the network 192.168.100.0, usually the modem has the first usable ip direction (.1) so lets check that out in our browser:



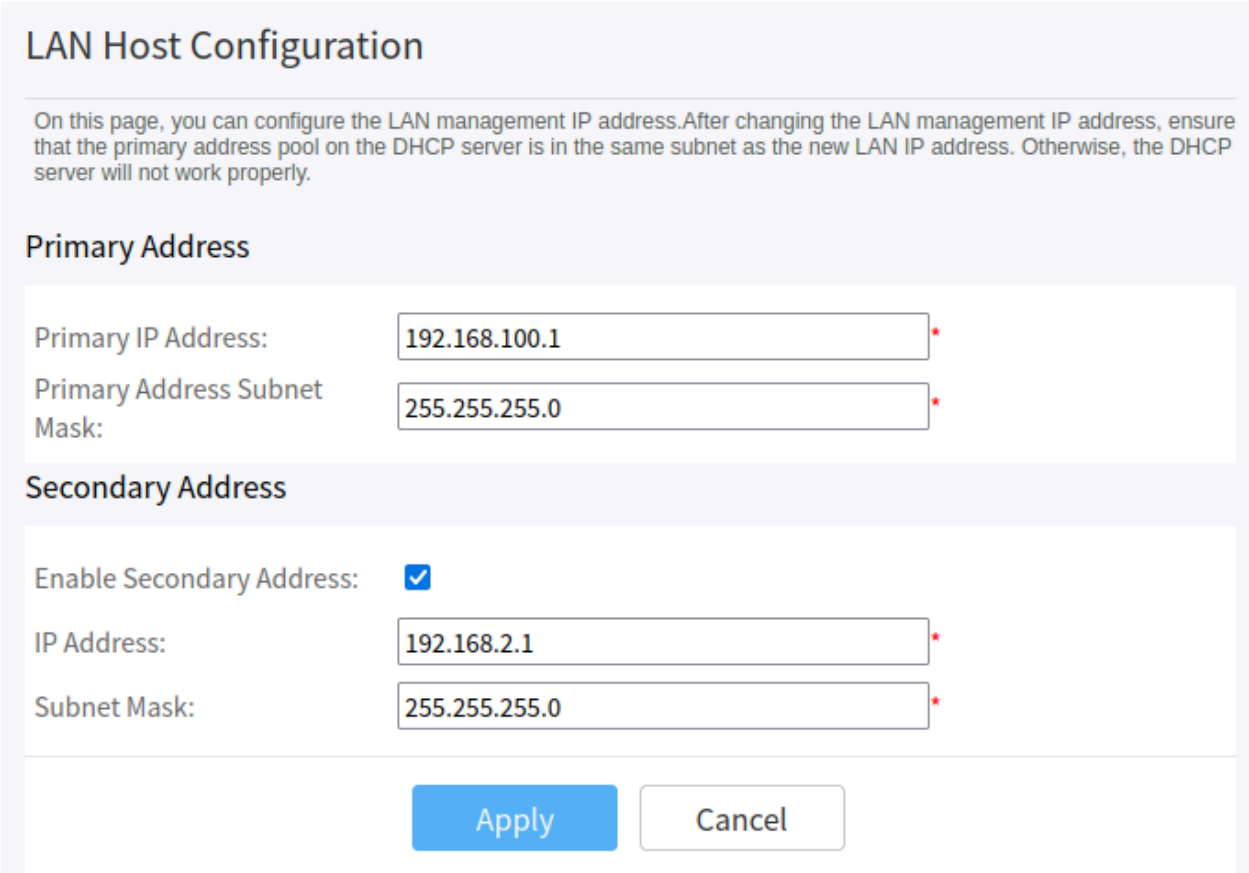
Looks like that work! now we use the default credentials to access, that could be admin/admin or root/root, then we click login and see the config pages:



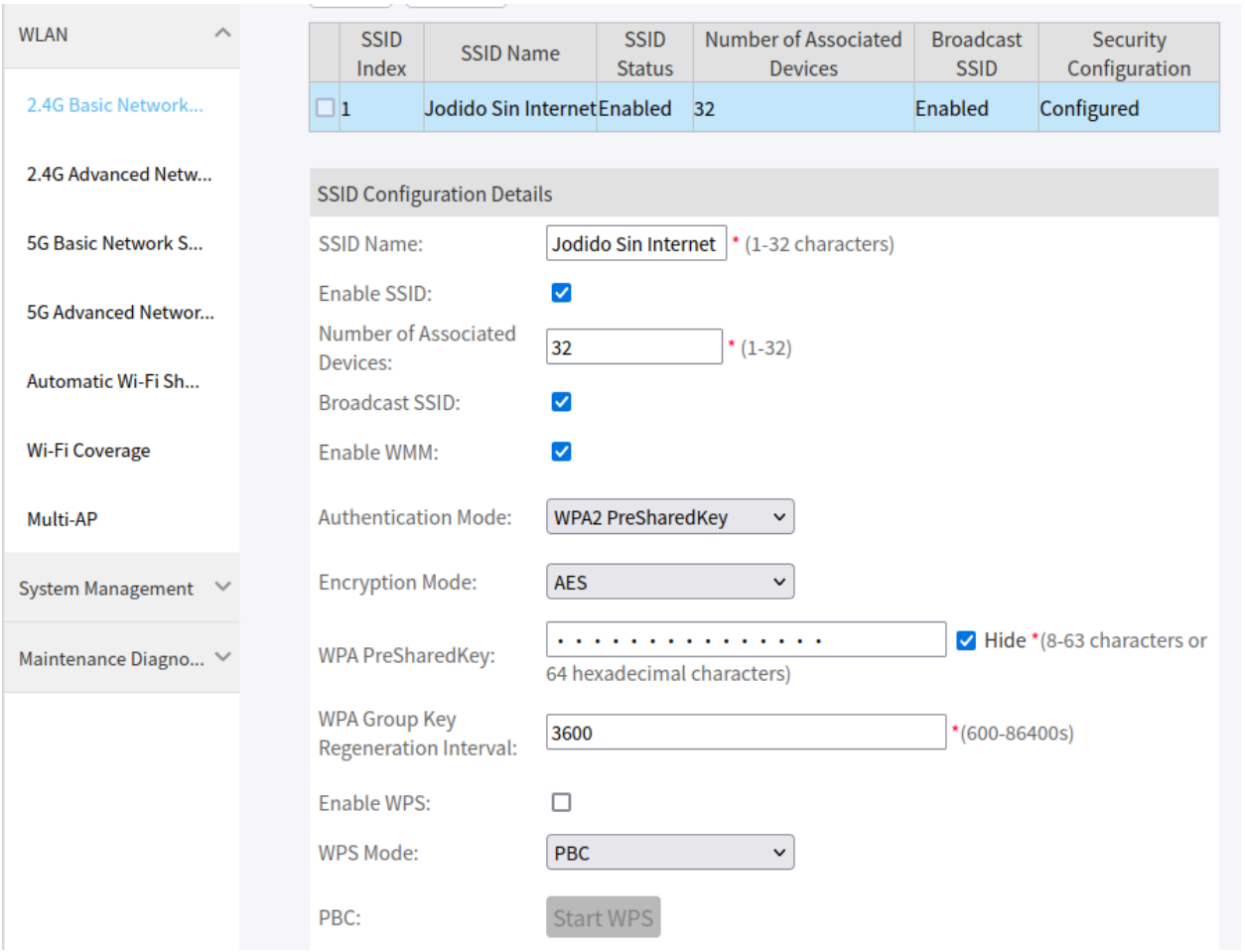
In this modem there is no much we can do, so we'll stick to the basics, clicking in the advanced tab we'll find our config menu:



In the LAN tab we'll find:



Remember those numbers? they're the modem ip address, we can change the last number in the Primary and Secondary IP Address, pick a number between 2 and 254, that will be your new modem ip address. remember that number, otherwise you wont be able to access this page again. Now we heading to the WLAN tab and click on it, we'll see something like this:



Let's just focus on our SSID name, we can change it to whatever name we wish, mom picked that name, kinda hilarious tho. Then we go to the WPA PreSharedKey and change the password, let's keep that one in a safe place to, so we never lost them. all we need to do is go to the bottom of the page and click in "APPLY CHANGES". And that would be it.