Internet connectino Watchdog

this is about creating a raspberry pi based appliance that monitors your internet conenction and if it goes down, automatically debugs it and restarts stuff like modem / router etc. as necessary. the device should also be reachable via an on-demand gsm link that can be initated by sms to login to the device and debug the link manually

so far, this is just a collection of snippets of information and links, i'll write it up into a nice article one day, but not today ;)

SMS

- Software: Gammu
- Hardware: TP-Link MA260
- on the tp-link stick the last serial device seems to be the one that can be used for sms (`gammu identify` only gets information from that device).

  ```
  gammu-detect | grep -B1 TP-LINK | grep ttyUSB | tail -n 1
  ```

  to get the device name for the config

- installation:

  ```
  apt install gammu gammu-smsd
  ```

GSM Link

- Hardware: See above
- Software: wvdial
- config: `/etc/wvdial.conf`

  ```
  [Dialer Defaults]
  Init1 = ATZ
  Init2 = ATQ0 V1 E1 S0=0 &C1 &D2 +FCLASS=0
  Init3 = AT+CGDCONT=1,"IP","internet"
  Modem Type = Analog Modem
  Baud = 9600
  New PPPD = yes
  Modem = /dev/ttyUSB5
  ISDN = 0
  Phone = *99#
  Password = { }
  Username = { }
  ```

Relay Card

- Hardware: Conrad electronics, part number 967720 (Relaiskarte 8Fach Seriell)
- Software: http://www.thomas-dohl.de/?Projekte___Relaiskarte

serial console to router

- via dual prolific basead usb to serial converter, one link goes to the relay card, the other to the serial terminal of the pfsense router.
- usb link is extended down to the basement via cat7 link, I simply cut a usb extension cord into two and attached RJ45 plugs to both ends with identical pin layout. works like a charm :)

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