# What’s five nines anyway?

## Building temporary networks

UKNOF 39

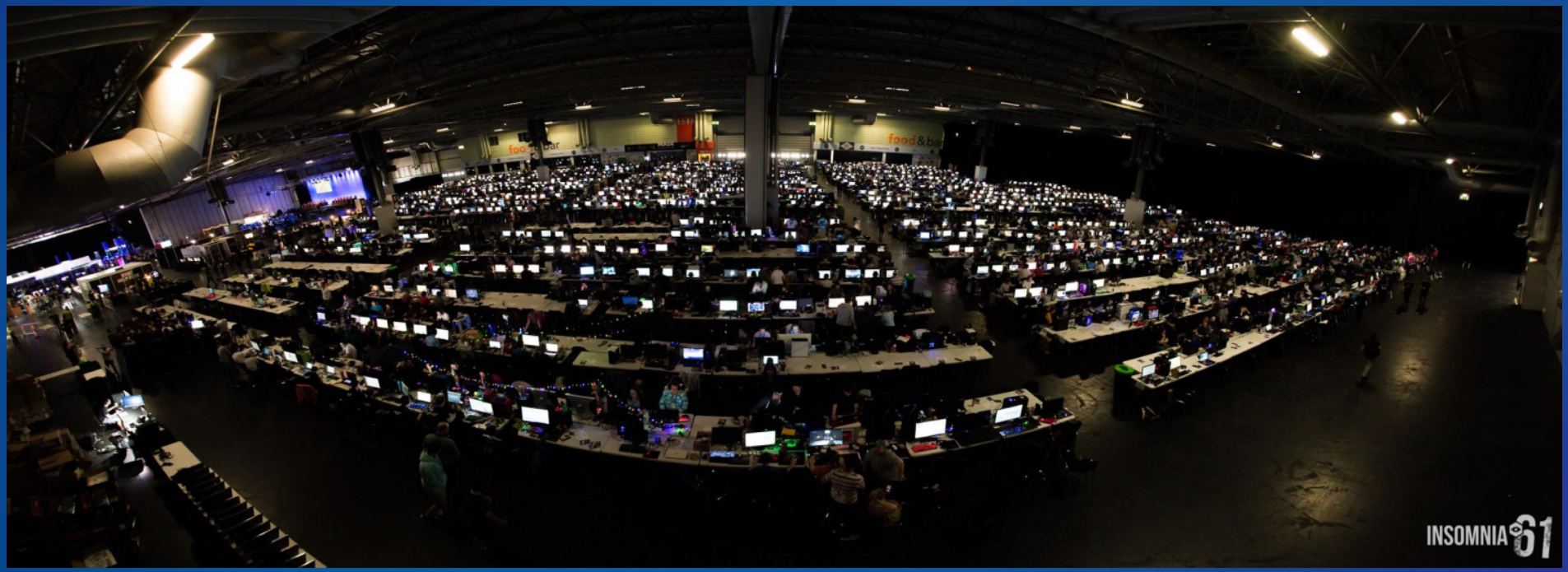
Tom Penrose

@tompenrose

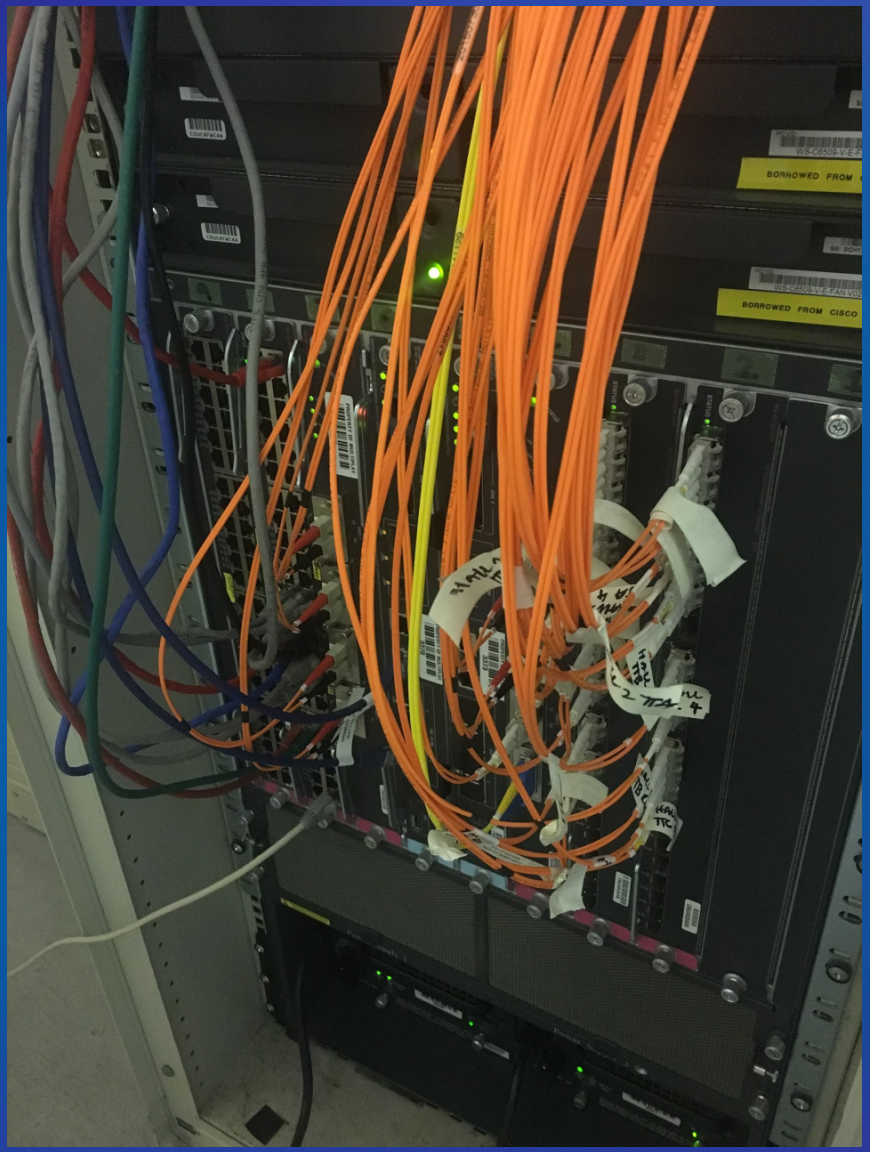
# Who am I?

## Tom Penrose

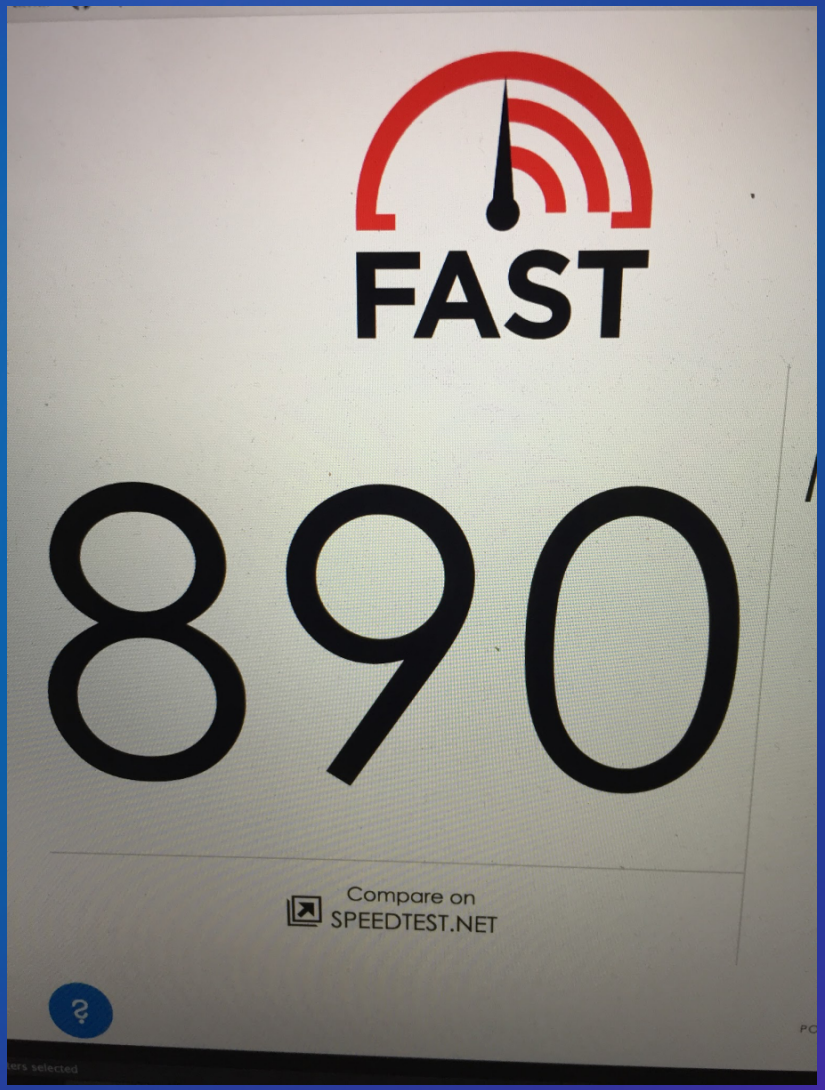
# What's Insomnia?



# Yes, we still use 6500's - Will consider freebies……

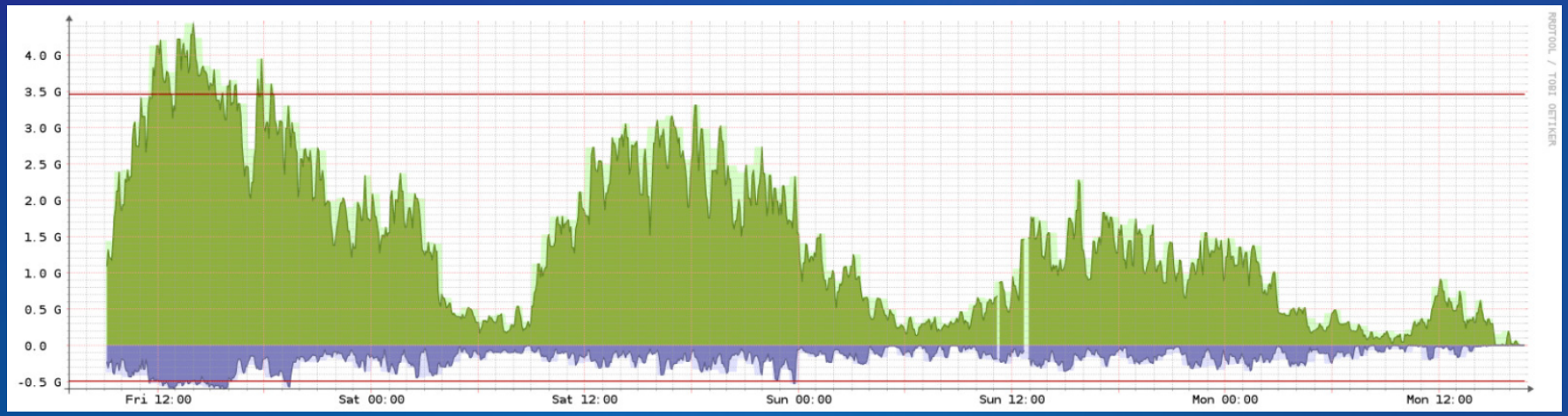


# Can I please have 10Gb/s for a week?!



# Insomnia61 Lancache

Hit ratio: ~670% (9TB Internet, ~60.5TB Cache)



# What about IP addresses?

NAT = Evil

# Please sir, I want some more?

https://my.ripe.net/#/request

https://www.ripe.net/manage-ips-and-asns/resource-management/number-resources/request-a-temporary-assignment

# PFSense

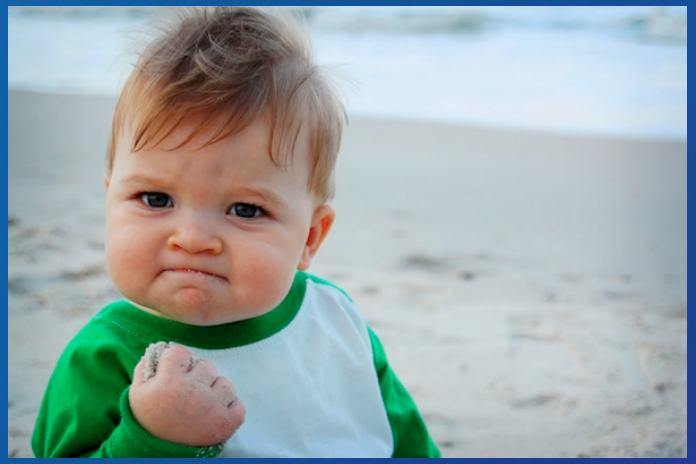
# Setup - Layer 1

# Getting kit in the right place

# BUILD!

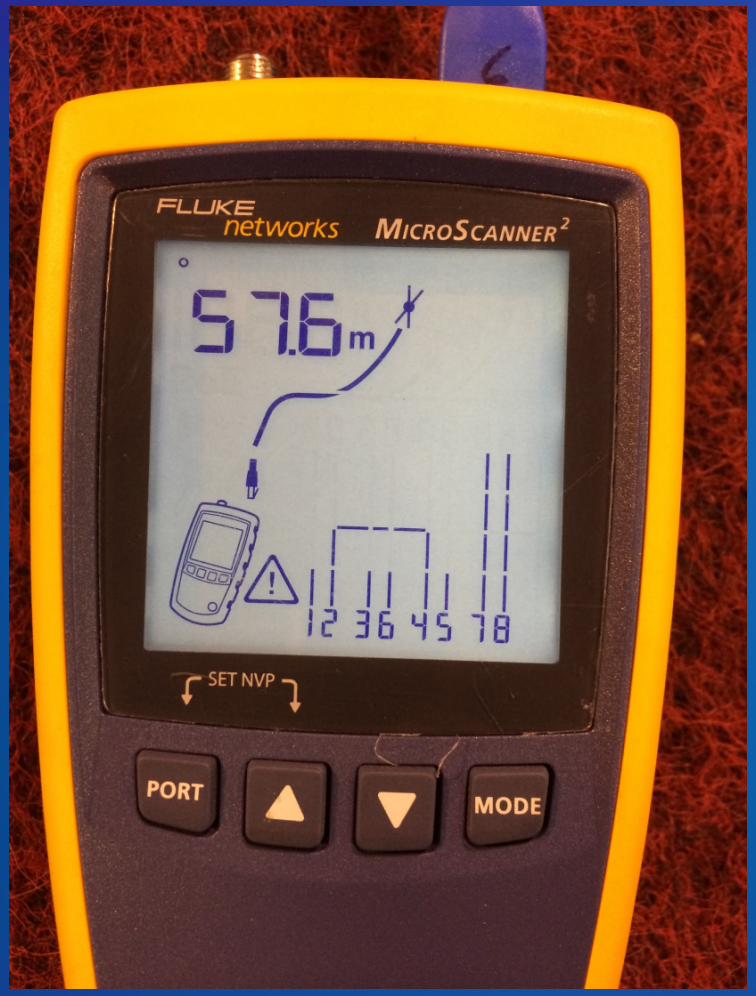
# AUTOLAN

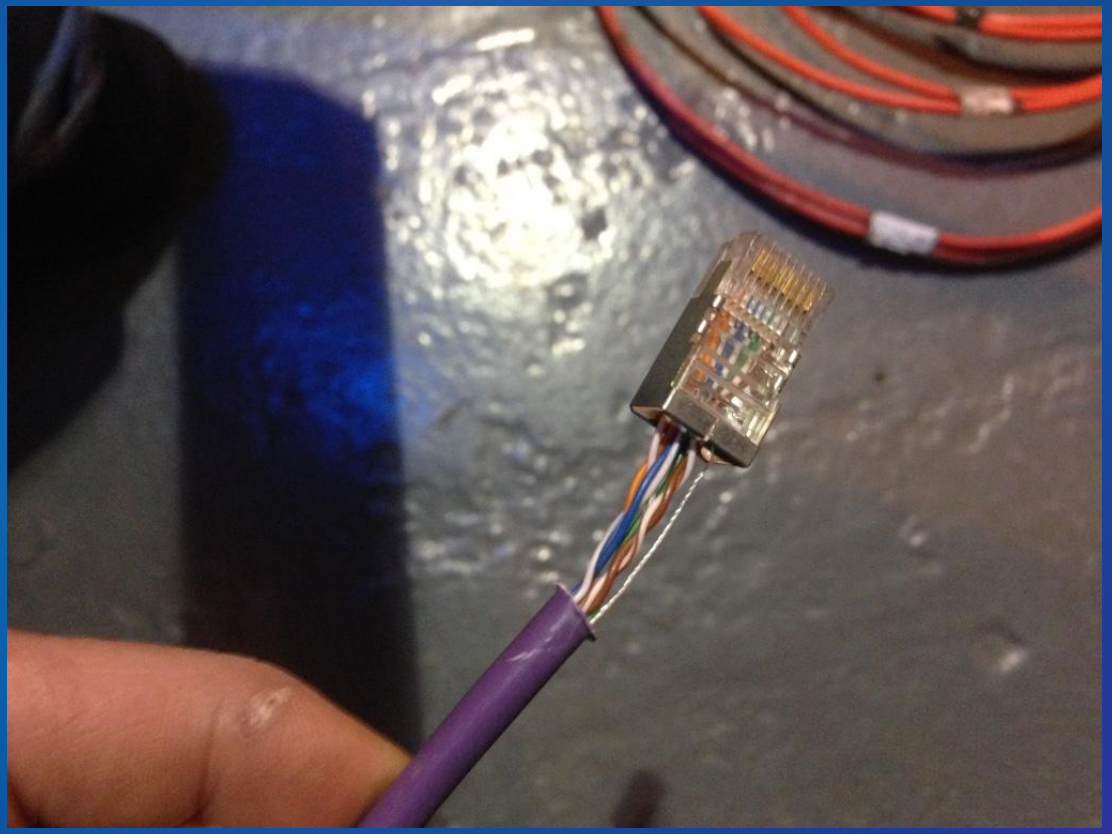
```
Port 5 on switch CORE-AG13-EON1 -> switch CORE-AG15-EON2 (10.10.1.15). Following...
Switch at 10.10.1.15 appears to be an Extreme. Finding port for 00:04:96:34:a9:d8...
Queried switch CORE-AG15-EON2 (10.10.1.15) and found port 13
Port 13 on switch CORE-AG15-EON2 -> EON_L1-M22 (10.10.1.105) and should be configured
Running in FULL AUTO mode. Configuring switch
Creating static ARP entry for 00:04:96:34:a9:d8
Configuring 00:04:96:34:a9:d8 as EON_L1-M22 on 10.10.1.105
Config success!

Looking for 00:04:96:34:b4:f0 on Switch CORE-CR0-MER (10.10.1.1)
Switch at 10.10.1.1 appears to be a Cisco. Finding port for 00:04:96:34:b4:f0...
Port Po6 on switch CORE-CR0-MER -> switch CORE-AG13-EON1 (10.10.1.14). Following...
Switch at 10.10.1.14 appears to be an Extreme. Finding port for 00:04:96:34:b4:f0...
Queried switch CORE-AG13-EON1 (10.10.1.14) and found port 5
Port 5 on switch CORE-AG13-EON1 -> switch CORE-AG15-EON2 (10.10.1.15). Following...
Switch at 10.10.1.15 appears to be an Extreme. Finding port for 00:04:96:34:b4:f0...
Queried switch CORE-AG15-EON2 (10.10.1.15) and found port 11
Port 11 on switch CORE-AG15-EON2 -> EON_J1-K22 (10.10.1.104) and should be configured
Running in FULL AUTO mode. Configuring switch
Creating static ARP entry for 00:04:96:34:b4:f0
Configuring 00:04:96:34:b4:f0 as EON_J1-K22 on 10.10.1.104
Config success!

Looking for 00:04:96:34:aa:ab on Switch CORE-CR0-MER (10.10.1.1)
Switch at 10.10.1.1 appears to be a Cisco. Finding port for 00:04:96:34:aa:ab...
Port Po6 on switch CORE-CR0-MER -> switch CORE-AG13-EON1 (10.10.1.14). Following...
Switch at 10.10.1.14 appears to be an Extreme. Finding port for 00:04:96:34:aa:ab...
Queried switch CORE-AG13-EON1 (10.10.1.14) and found port 5
Port 5 on switch CORE-AG13-EON1 -> switch CORE-AG15-EON2 (10.10.1.15). Following...
Switch at 10.10.1.15 appears to be an Extreme. Finding port for 00:04:96:34:aa:ab...
Queried switch CORE-AG15-EON2 (10.10.1.15) and found port 31
Port 31 on switch CORE-AG15-EON2 -> EON_AE1-AF22 (10.10.1.114) and should be configured
Running in FULL AUTO mode. Configuring switch
Creating static ARP entry for 00:04:96:34:aa:ab
Configuring 00:04:96:34:aa:ab as EON_AE1-AF22 on 10.10.1.114
Config success!

Looking for 00:04:96:34:aa:70 on Switch CORE-CR0-MER (10.10.1.1)
Switch at 10.10.1.1 appears to be a Cisco. Finding port for 00:04:96:34:aa:70...
Port Po6 on switch CORE-CR0-MER -> switch CORE-AG13-EON1 (10.10.1.14). Following...
Switch at 10.10.1.14 appears to be an Extreme. Finding port for 00:04:96:34:aa:70...
Queried switch CORE-AG13-EON1 (10.10.1.14) and found port 5
Port 5 on switch CORE-AG13-EON1 -> switch CORE-AG15-EON2 (10.10.1.15). Following...
```



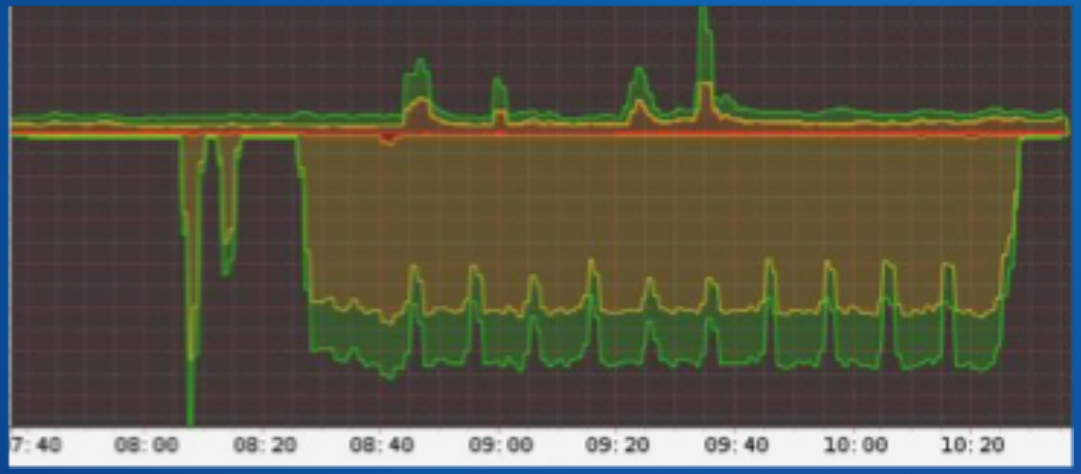
# Sometimes it goes wrong :(

# Yep, That'll do gig.



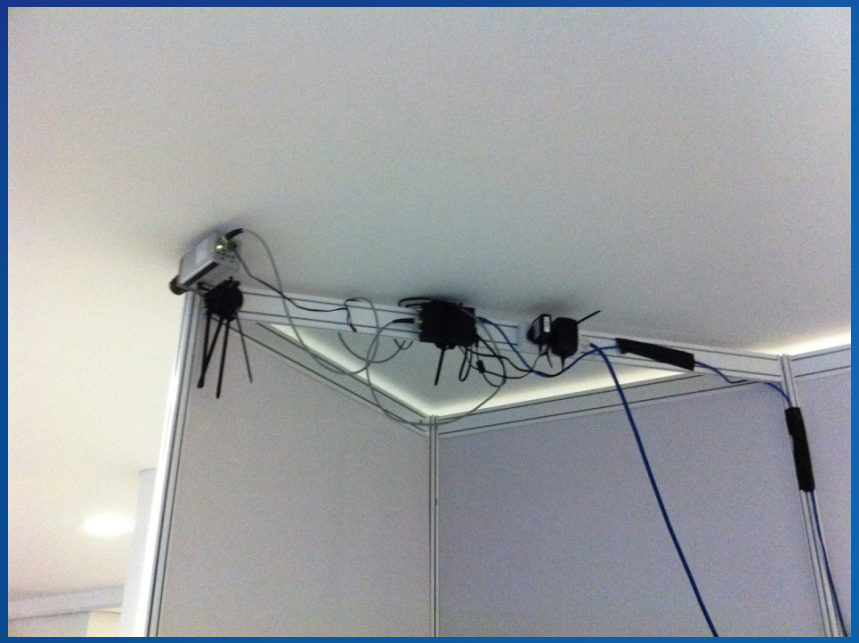
# When it goes wrong...



# When it goes wrong...

# Fibre!

# Temporary Installs



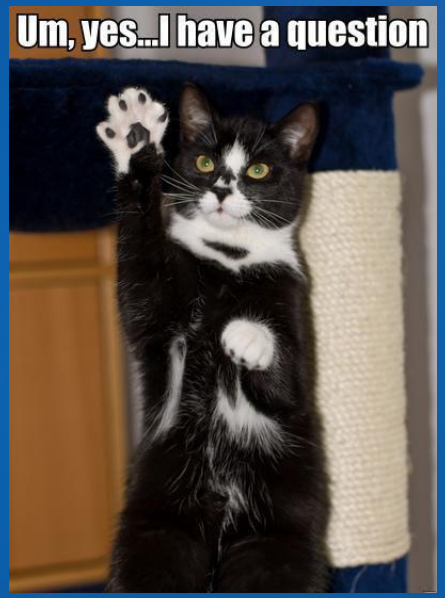
# Nearly done.

OFF
ON

food and drink in the piazza
Delicious food inside your hall
INSOMNIA59
DAY AND WEEKEND CHECK-IN
BYOC CHECK-IN
RAZER RAIJU
GAMING CONTROLLER FOR PS4
INSOMNIA59
RAZER RAIJU

# FIN

ANNO 1366
STELLA ARTOIS
CIDRE
BELGIAN RECIPE
MADE WITH
HAND-PICKED APPLES
124


Um, yes...I have a question