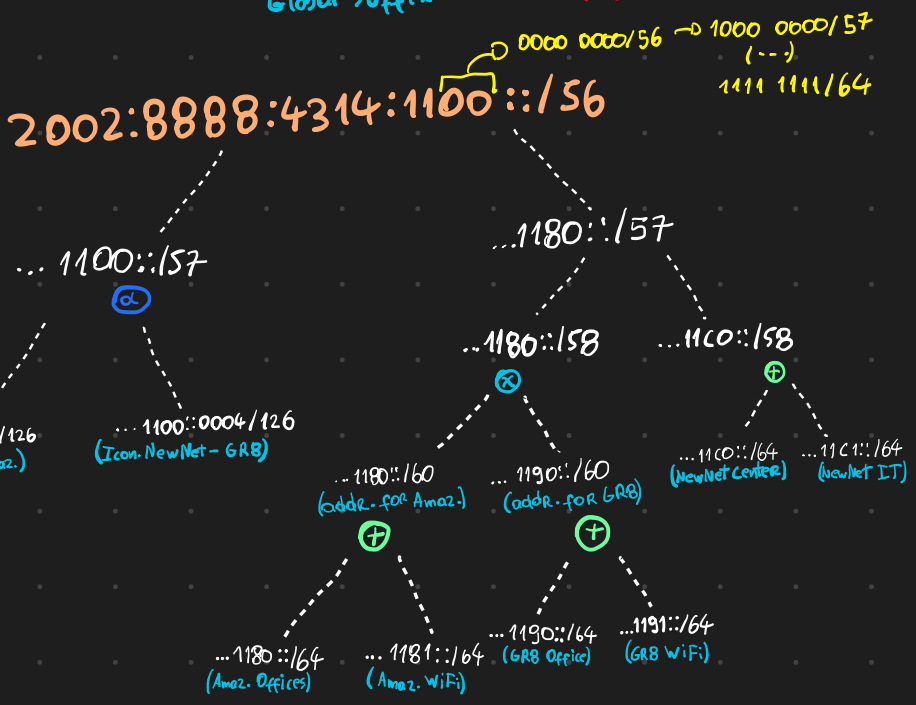
Global IPv6

these will change with the mask!

Global IPv6: 2002:8888:4314:1100::/56

Global Suffix | Subnet



x1=1 x2=3 x3=4
x4=3 x5=5 x6=1
x7=4 x8=1 x9=8
x0=4

Requirements

- A /64 network for NewNetCenter
- Another /64 for NewNetIT
- /60 address space for customers
- Global addresses in GRB Office
- Global addresses in GRB WiFi
- Global addresses in Amazing Offices
- Global addresses in Amazing WiFi
- /126 with link-local-OSW1
- /126 with link-local -OSW2
- /126 with same global address (GRB)
- /126 with same global address (Amaz.)

⊗ an extra subdivision to reach /59, which results in 1180::/59 and 11A0::/59
⊕ group of subdivisions to reach /64
⊛ another group of subdivisions to reach /126

We still need to obtain the link-local for the switches on the Amazing network. These can be obtained by grabbing the Amazing network's global IPv6, and creating subnetworks for each switch.

Amazing Network

2002:8888:4314:1182::/60

After this, each switch will generate a link-local (fe80::/10), with a size of 64 bits. The last 48 bits will be filled via the EUI-64 method.