Inbang signalling

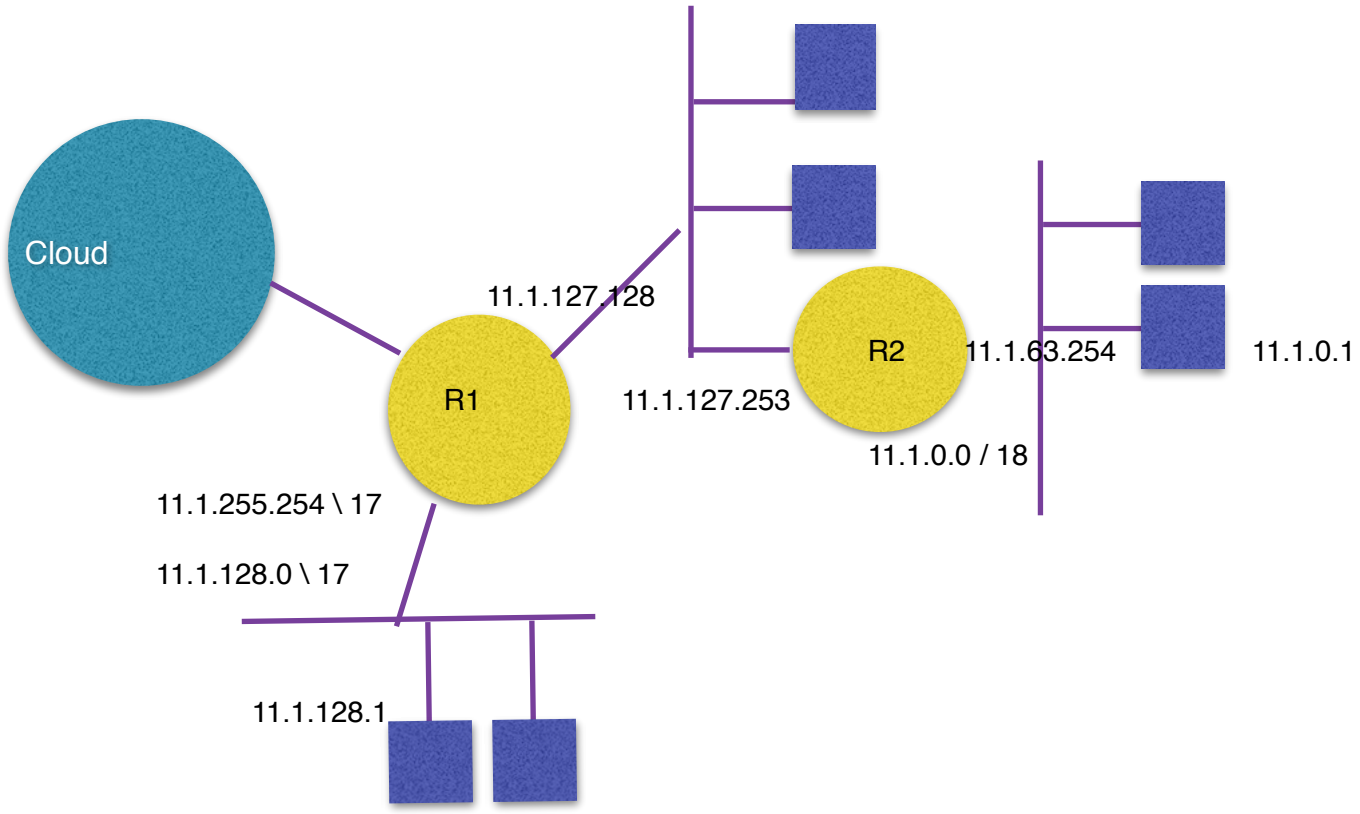
SS7 - signalling system 7. System, that is switching communication. By message knowing, when we are terminating.
POTS = Plain Old telephone system

DNS - translate from domain name to IP.

Physical layer - hardware itself.
Link layer - integrate checks, uses mac addresses, framing (group bytes into packets).
Network - IPv4 - 4 bytes addresses, IPv6 - 6 bytes addresses
Transport - transporting packets, check that package came entirely:
TCP - adapt the sending rate. numbers on headers tell you, to which application this package.
UDP - numbers on headers tell you, to which application this package. No check
SCTP
Session - http session cookie. Save state of client. Cookie - number, which computer sends to server. By this way we could restore previous session on website.
Presentation - MME - cuts packages into subfiles \ sub objects.
Application.

3 ethernet links:
range of addresses - 11.1.0.0 / 16 bits - prefix
Example:
11.1.128.0 -> 10000000
11.1.0.0 -> 00000000
We got small address range.
IN IP INTERFACES HAVE ADDRESS RANGES THE HIGHEST ADDRESS IS BROADCAST - 10.0.0.255 / 24
11.1.128.0 \ 17
11.1.255.254 \ 17
Table:

Prefix	
11.1.128.0 / 17	
0 / 0	
R1 11.1.128.0 / 17 11.1.64.0 / 18 0/0 11.1.0.0. / 18	 1.1.11.0 11.1.127.253
C 0/0 11.1.0.0 / 18	 11.1.63.254 int 1
R2 11.1.0.0 / 18 11.1.64.0 / 18 0 / 0	 int 1 int 2 11.1.127.254
B 11.1.64.0 / 18 0 / 0 11.1.0.0	 int 1. 11.1.127.254 11.1.127.253


Cloud
11.1.127.128
R1
11.1.127.253
R2
11.1.63.254
11.1.0.1
11.1.0.0 / 18
11.1.255.254 \ 17
11.1.128.0 \ 17
11.1.128.1