

Traffic shaping with QoS

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Traffic Shaping & QoS

- Possibility to set up multilevel queue trees, with dependencies.
- Queue Types:
 - Pfifo – Packet first in – first out „the first the better”
 - Bfifo – Bytes fifo, similar to pfifo, but counting bytes
 - SFQ – „Fair Queuing Protocol” controlled with round-robin algorithm
 - PCQ – It is an improved version of SFQ without its stochastic nature
 - HTB – Hierarchical Token Bucket
 - RED – Random Early Detect, anti-overload algorithm
- Possibility to set up „Cir” - guaranteed speed
- Very advanced spectrum of usage, limited by our own mind and cpu power.

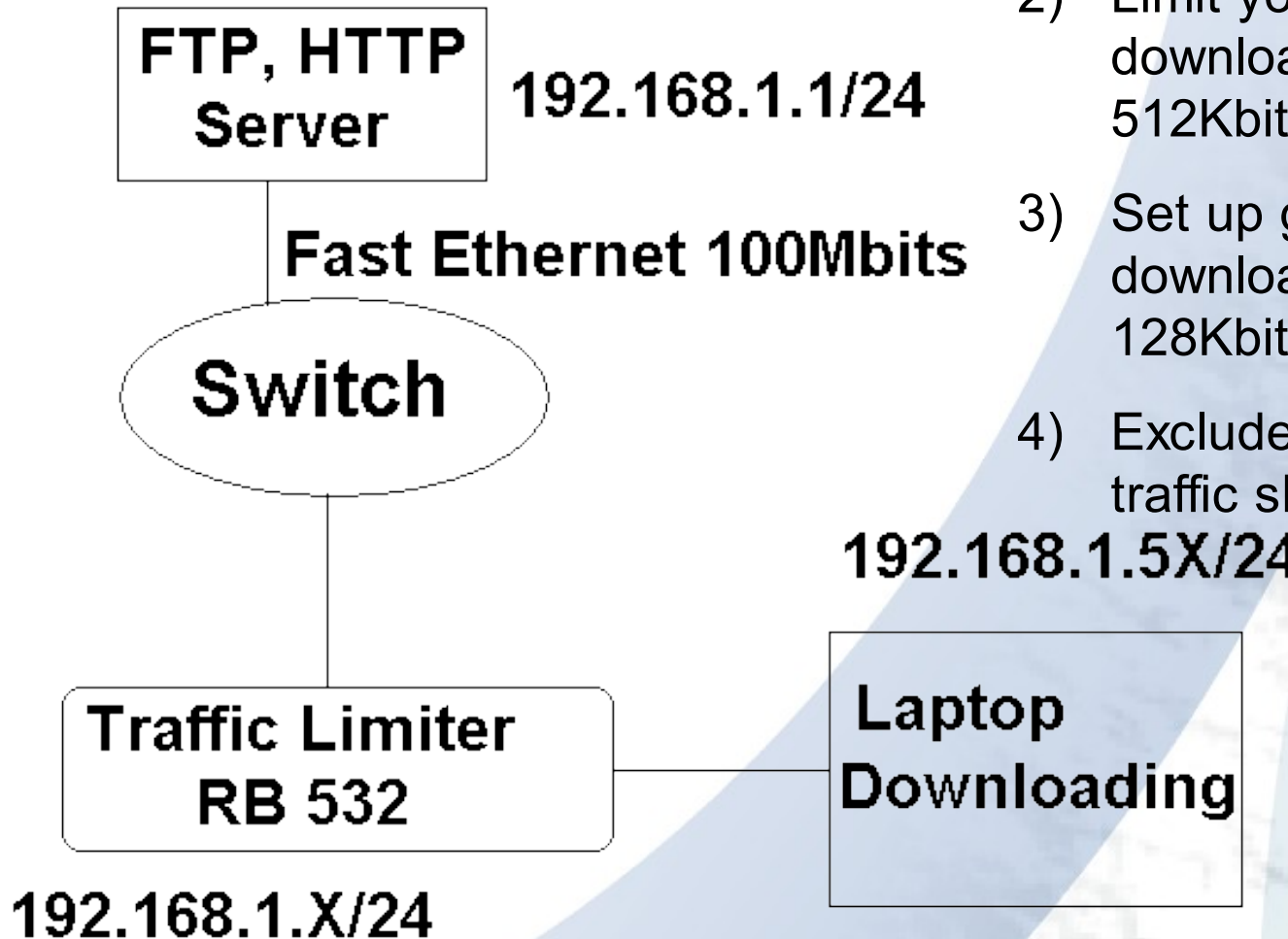
SIMPLE QUEUES

- Possibility to fast set up queue, with the basic level of guaranteed traffic
- Simple Queues aren't very precise, but they won't allow traffic to pass maximum-limit – Can be very helpful with setting maximum speed of user, especially as near client as possible
- Can be automatically set up using scripts with variables
- Can be connected with PCQ queue type, for all-ip's-individually traffic queuing

Simple Queues – Practical Setup

Task is:

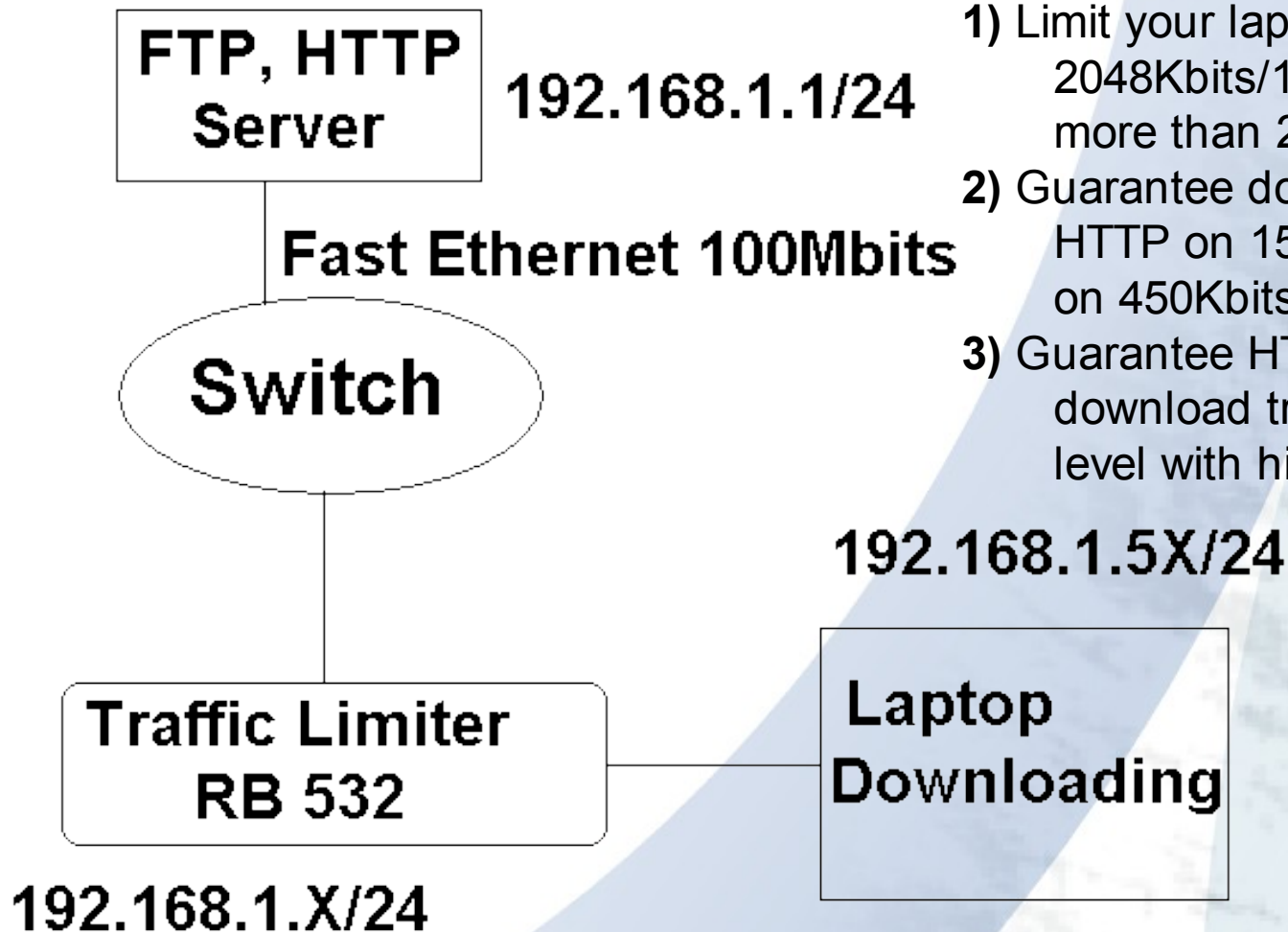
- 2) Limit your laptop download/upload speed on 512Kbits/128Kbits level
- 3) Set up guaranteed download/upload on 128Kbits/64Kbits level
- 4) Exclude RouterBoard from traffic shape



Queue Tree

- Possibility to precisely shape traffic with priority on some kind of traffic and to guarantee amount of bandwidth to some kind of traffic
- Possibility to create dependences (Parent -> Child)
- Better traffic control – we can shape even different types of services
- Packet mark is needed to get queue tree working
- Can be automatically set up using scripts with variables
- Traffic limiting works only on outgoing interfaces!

Queue Tree – Practical Setup



Task is:

- 1) Limit your laptop speed on 2048Kbits/1024Kbits level, but not more than 2048Kbits bidirectional
- 2) Guarantee download traffic on HTTP on 1500Kbits level and FTP on 450Kbits level
- 3) Guarantee HTTP and FTP download traffic on 2000Kbits level with higher priority for HTTP



Dziękujemy za uwagę i prosimy o pytania



kompleksowe rozwiązania dla sieci bezprzewodowych

- ul. Górczewska 212/226
01 - 460 Warszawa
(22) 312-22-73
- ul. Gminna 25
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