

books

Designing and Implementing Linux Firewalls and QoS using netfilter, iproute2, NAT and I7-filter

<https://www.packtpub.com/product/designing-and-implementing-linux-firewalls-and-qos-using-netfilter-iproute2-nat-and-i7-filter/9781904811657>

Network Management: Accounting and Performance Strategies - Graphically Rich Book

<http://etutorials.org/Networking/network+management/Network+Management+Accounting+and+Performance+Strategies+-+Graphically+Rich+Book/>

diffserv - dscp

Differentiated services

https://en.wikipedia.org/wiki/Differentiated_services

Per-hop behaviour

https://en.wikipedia.org/wiki/Per-hop_behaviour

Differentiated Services Field Codepoints (DSCP)

<https://www.iana.org/assignments/dscp-registry/dscp-registry.xhtml>

DSCP and Precedence Values

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus1000/sw/4_0/qos/configuration/guide/nexus1000v_qos/qos_6dscp_val.pdf

Quality of Service Transport Network

<https://www.sciencedirect.com/topics/engineering/differentiated-service>

DSCP based QoS with HTB

https://wiki.mikrotik.com/wiki/DSCP_based_QoS_with_HTB

Binary to Decimal converter

<https://www.rapidtables.com/convert/number/binary-to-decimal.html?x=11111111->8-bit,dec0to63>

diffserv - ecn

Explicit Congestion Notification

https://en.wikipedia.org/wiki/Explicit_Congestion_Notification

gif – generic tunnel interface

<https://man.netbsd.org/gif.4->ECNfriendly>

tips & tricks

NetBSD ALTQ

<https://pub.nethence.com/bsd/altq>

Per Connection Queue (PCQ) on an MKT NAT gateway

<https://pub.nethence.com/network/mkt-pcq.md>

ip ranges lab

Whatsapp IP pool (restricted)

<https://www.whatsapp.com/cidr.txt>

Manual:Routing Table Matcher

https://wiki.mikrotik.com/wiki/Manual:Routing_Table_Matcher

Routing information

https://wiki.nftables.org/wiki-nftables/index.php/Routing_information

super duper labs

Data Plane Development Kit

https://en.wikipedia.org/wiki/Data_Plane_Development_Kit

Application-specific integrated circuit

https://fr.wikipedia.org/wiki/Application-specific_integrated_circuit

Command to set dscp / ToS value on outgoing packets for OS X Mavericks?

<https://serverfault.com/questions/616793/command-to-set-dscp-tos-value-on-outgoing-packets-for-os-x-mavericks>

linux lab

QoS with Linux using PRIQ and HTB

<https://www.voip-info.org/qos-with-linux-using-prio-and-htb/>

Linux Advanced Routing & Traffic Control

<https://lartc.org/>

Linux HTB QoS script with source-based prioritization.

<https://gist.github.com/brimston3/7ba85740a1617fd713a5>

QoS with HTB

<https://www.linuxquestions.org/questions/linux-networking-3/qos-with-htb-349073/>

Kernel Korner - Analysis of the HTB Queuing Discipline

<https://www.linuxjournal.com/article/7562>

RU - QoS в Linux

http://xgu.ru/wiki/QoS_%D0%B2_Linux

HTB Linux queuing discipline manual - user guide

<http://luxik.cdi.cz/~devik/qos/htb/manual/userg.htm>

RU - HOW-TO ...

<http://web.archive.org/web/20070701015113/http://linuxadmin.chat.ru/pulsar/QoS.txt>

RU - ADSL Bandwidth Management HOWTO

http://web.archive.org/web/20100404010822/http://gazette.linux.ru.net/rus/articles/adsl_bandwidth_management-howto.html

Application Layer Packet Classifier for Linux

<http://l7-filter.sourceforge.net/>

RU - Linux QoS

<https://net-labs.in/category/linux/linux-qos/>

Journey to the Center of the Linux Kernel: Traffic Control, Shaping and QoS

https://web.archive.org/web/20191204233127/https://wiki.linuxwall.info/doku.php/en:ressources:dossiers:networking:traffic_control

Traffic Control

https://www.funtoo.org/Traffic_Control

Advanced traffic control

https://wiki.archlinux.org/index.php/Advanced_traffic_control

tc: Linux HTTP Outgoing Traffic Shaping (Port 80 Traffic Shaping)

<https://www.cyberciti.biz/faq/linux-traffic-shaping-using-tc-to-control-http-traffic/>

qos

Network congestion

https://en.wikipedia.org/wiki/Network_congestion

Quality of service

https://en.wikipedia.org/wiki/Quality_of_service

Quality of Service (QoS)

<https://www.ringcentral.co.uk/gb/en/blog/definitions/quality-of-service-qos/>

IP Quality of Service

<https://wiki.asterisk.org/wiki/display/AST/IP+Quality+of+Service>

Jitter

<https://en.wikipedia.org/wiki/Jitter>

tos

Type of service

https://en.wikipedia.org/wiki/Type_of_service

altq.conf – ALTQ configuration file

<https://man.netbsd.org/altq.conf.5>

cos

Class of service

https://en.wikipedia.org/wiki/Class_of_service

CoS - IEEE P802.1p

https://en.wikipedia.org/wiki/IEEE_P802.1p

queues

Internet traffic engineering

https://en.wikipedia.org/wiki/Internet_traffic_engineering

Traffic shaping

https://en.wikipedia.org/wiki/Traffic_shaping

Traffic policing (communications)

[https://en.wikipedia.org/wiki/Traffic_policing_\(communications\)](https://en.wikipedia.org/wiki/Traffic_policing_(communications))

queue algos

FIFO (computing and electronics)

[https://en.wikipedia.org/wiki/FIFO_\(computing_and_electronics\)](https://en.wikipedia.org/wiki/FIFO_(computing_and_electronics))

Stack (abstract data type)

[https://en.wikipedia.org/wiki/Stack_\(abstract_data_type\)](https://en.wikipedia.org/wiki/Stack_(abstract_data_type))

FINO

<https://en.wikipedia.org/wiki/FINO>

Tail drop

https://en.wikipedia.org/wiki/Tail_drop

Weighted round robin

https://en.wikipedia.org/wiki/Weighted_round_robin

red alike

Random early detection

https://en.wikipedia.org/wiki/Random_early_detection

Weighted random early detection

https://en.wikipedia.org/wiki/Weighted_random_early_detection

Robust random early detection

https://en.wikipedia.org/wiki/Robust_random_early_detection

14.5. Random Early Detection (RED)

<https://tldp.org/HOWTO/Adv-Routing-HOWTO/lartc.adv-qdisc.red.html>

Random Early Detection RED

<https://www.ccexpert.us/traffic-shaping-2/random-early-detection-red-1.html>

Self-Tuning Random Early Detection Algorithm to Improve Performance of Network Transmission

<https://www.hindawi.com/journals/mpe/2011/872347/>

Blue (queue management algorithm)

[https://en.wikipedia.org/wiki/Blue_\(queue_management_algorithm\)](https://en.wikipedia.org/wiki/Blue_(queue_management_algorithm))

rfcs

Internet Protocol – 3.1. Internet Header Format

<https://tools.ietf.org/html/rfc791#section-3.1>

SERVICE MAPPINGS

<https://tools.ietf.org/html/rfc795>

Type of Service

<https://tools.ietf.org/html/rfc1349>

Requirements for IP Version 4 Routers

<https://tools.ietf.org/html/rfc1812> → 4.2.2.4 Type of Service: RFC 791 Section 3.1 → 5.2.4.3 Next Hop Address → 5.3.2 Type of Service (TOS)

Differentiated Services Field – 4. Historical Codepoint Definitions and PHB Requirements

<https://tools.ietf.org/html/rfc2474#section-4> → backwards compatibility explained

Guidelines for DiffServ Service Classes

<https://tools.ietf.org/html/rfc4594>