

## **link aggregation**

Link aggregation

[https://en.wikipedia.org/wiki/Link\\_aggregation](https://en.wikipedia.org/wiki/Link_aggregation)

Link Aggregation and LACP basics

[https://www.thomas-krenn.com/en/wiki/Link\\_Aggregation\\_and\\_LACP\\_basics](https://www.thomas-krenn.com/en/wiki/Link_Aggregation_and_LACP_basics)

Chapter 4. VLANs and Trunking

<https://www.oreilly.com/library/view/packet-guide-to/9781449311315/ch04.html>

## **balance modes**

Chapter: Layer 2 LAN Port Configuration

[https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst6500/ios/15-4SY/config\\_guide/sup6T/15\\_3\\_sy\\_swcg\\_6T/layer2.html](https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst6500/ios/15-4SY/config_guide/sup6T/15_3_sy_swcg_6T/layer2.html)

Aruba 2930F / 2930M Management and Configuration Guide for ArubaOSSwitch 16.05

<https://higherlogicdownload.s3.amazonaws.com/HPE/MigratedAssets/AOS-SW-Management%20and%20Configuration%20Guide-v16.05.pdf>

## **lacp**

An Overview of Link Aggregation and LACP

<https://web.archive.org/web/20170713130728/https://thenetworkway.wordpress.com/2015/05/01/an-overview-of-link-aggregation-and-lacp/>

Link Aggregation Control Protocol (LACP) (802.3ad) for Gigabit Interfaces

[https://www.cisco.com/c/en/us/td/docs/ios/12\\_2sb/feature/guide/gigeth.html](https://www.cisco.com/c/en/us/td/docs/ios/12_2sb/feature/guide/gigeth.html)

IEEE 802.3ad Link Aggregation (LAG)

[https://www.ieee802.org/3/hssg/public/apr07/frazier\\_01\\_0407.pdf](https://www.ieee802.org/3/hssg/public/apr07/frazier_01_0407.pdf)

Understanding IEEE 802.3ad Link Aggregation

[https://www.juniper.net/documentation/en\\_US/junos15.1/topics/concept/802.3ad-link-aggregation-understanding.html](https://www.juniper.net/documentation/en_US/junos15.1/topics/concept/802.3ad-link-aggregation-understanding.html)

Link Aggregation Control Protocol (LACP) (802.3ad) for Gigabit Interfaces

[https://www.cisco.com/c/en/us/td/docs/ios/12\\_2sb/feature/guide/gigeth.html](https://www.cisco.com/c/en/us/td/docs/ios/12_2sb/feature/guide/gigeth.html)

## **linux bonding**

Linux Ethernet Bonding Driver HOWTO

<https://www.kernel.org/doc/Documentation/networking/bonding.txt> -> 2. Bonding Driver Options

Manual:Interface/Bonding

<https://wiki.mikrotik.com/wiki/Manual:Interface/Bonding>

Load Balance Setup: Which Is The Best Port Trunking Option?

<http://qnapsupport.net/load-balance-setup-which-is-the-best-port-trunking-option/>

What are differences between balance-rr and 802.3ad?

<https://serverfault.com/questions/445839/what-are-differences-between-balance-rr-and-802-3ad>

bonding

<https://wiki.linuxfoundation.org/networking/bonding>

Understanding NIC Bonding with Linux

[https://web.archive.org/web/20201203072140/http://www.enterprisenetworkingplanet.com/linux\\_unix/article.php/3850636/Understanding-NIC-Bonding-with-Linux.htm](https://web.archive.org/web/20201203072140/http://www.enterprisenetworkingplanet.com/linux_unix/article.php/3850636/Understanding-NIC-Bonding-with-Linux.htm)

## **linux teaming**

Infrastructure Specification

<https://github.com/jpirko/libteam/wiki/Infrastructure-Specification>

If You Like Bonding, You Will Love Teaming  
<https://www.redhat.com/en/blog/if-you-bonding-you-will-love-teaming>

---

### **bridging**

Repeater

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

Layer 3 vs Layer 2 Switching

[https://documentation.meraki.com/MS/Layer\\_3\\_Switching/Layer\\_3\\_vs\\_Layer\\_2\\_Switching](https://documentation.meraki.com/MS/Layer_3_Switching/Layer_3_vs_Layer_2_Switching)

HP Switch Software - IP Configuration

[https://support.hpe.com/hpsc/doc/public/display?docId=emr\\_na-c04725294](https://support.hpe.com/hpsc/doc/public/display?docId=emr_na-c04725294)

### **multi-gigabit**

2.5GBASE-T and 5GBASE-T

[https://en.wikipedia.org/wiki/2.5GBASE-T\\_and\\_5GBASE-T](https://en.wikipedia.org/wiki/2.5GBASE-T_and_5GBASE-T)

Will Your Copper Cable Plant Support Multigigabit?

<https://www.networkcomputing.com/data-centers/will-your-copper-cable-plant-support-multigigabit>

Cisco Catalyst Multigigabit Ethernet FAQ

<https://www.cisco.com/c/dam/en/us/solutions/collateral/enterprise-networks/catalyst-multigigabit-switching/nb-06-mgig-faq-cte-en.pdf>

### **eapol**

Protected Extensible Authentication Protocol

[https://en.wikipedia.org/wiki/Protected\\_Extensible\\_Authentication\\_Protocol](https://en.wikipedia.org/wiki/Protected_Extensible_Authentication_Protocol)

difference between EAP-TLS and EAP-TTLS and how to configure them on a NPS?

[https://www.reddit.com/r/sysadmin/comments/83x2l2/difference\\_between\\_eaptls\\_and\\_eapttls\\_and\\_how\\_to/](https://www.reddit.com/r/sysadmin/comments/83x2l2/difference_between_eaptls_and_eapttls_and_how_to/)

difference between EAP-TLS and EAP-TTLS and how to configure them on a NPS? RRS feed

<https://social.technet.microsoft.com/Forums/ie/en-US/154284e7-96a6-49fd-8e43-8af69213bb0c/difference-between-eaptls-and-eapttls-and-how-to-configure-them-on-a-nps?forum=winserverNIS>

EAP-TLS vs EAP-TTLS vs EAP-PEAP

<https://security.stackexchange.com/questions/147344/eap-tls-vs-eap-ttls-vs-eap-peap>

802.1X Overview and EAP Types

<https://www.intel.com/content/www/us/en/support/articles/000006999/wireless.html>

### **eap**

Password-authenticated key agreement

[https://en.wikipedia.org/wiki/Password-authenticated\\_key\\_agreement](https://en.wikipedia.org/wiki/Password-authenticated_key_agreement)

Protected Extensible Authentication Protocol

[https://en.wikipedia.org/wiki/Protected\\_Extensible\\_Authentication\\_Protocol](https://en.wikipedia.org/wiki/Protected_Extensible_Authentication_Protocol)

### **brands & companies**

List of networking hardware vendors

[https://en.wikipedia.org/wiki/List\\_of\\_networking\\_hardware\\_vendors](https://en.wikipedia.org/wiki/List_of_networking_hardware_vendors)

Cisco Meraki

[https://en.wikipedia.org/wiki/Cisco\\_Meraki](https://en.wikipedia.org/wiki/Cisco_Meraki)

Ubiquiti

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

CommScope

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

### **cisco switches**

Types of Switches

<https://www.cisco.com/c/en/us/solutions/small-business/resource-center/networking/understanding-the-different-types-of-network-switches.html#~types-of-switches>

Switches

<https://www.cisco.com/c/en/us/products/switches/index.html>

All Switches Products

<https://www.cisco.com/c/en/us/products/switches/product-listing.html>

Cisco Switch Selector

<https://www.cisco.com/c/en/us/products/switches/switch-selector.html>

### **sfp matrix**

Cisco Optics-to-Device Compatibility Matrix

<https://tmgmatrix.cisco.com/>

### **poe**

Power over Ethernet

[https://en.wikipedia.org/wiki/Power\\_over\\_Ethernet](https://en.wikipedia.org/wiki/Power_over_Ethernet)

POE VS. POE+: WHAT'S THE DIFFERENCE?

<https://blog.twinstate.com/poe-vs-poe-plus#:~:text=PoE%20is%20802.3af%2C%20while,and%2025.5%20watts%20for%20PoE%2B>.

---

### **vlan++**

IEEE 802.1ad

[https://en.wikipedia.org/wiki/IEEE\\_802.1ad](https://en.wikipedia.org/wiki/IEEE_802.1ad)

QinQ vs VLAN vs VXLAN

<https://community.fs.com/blog/qinq-vs-vlan-vs-vxlan.html>

Virtual Extensible LAN (VXLAN)

[https://en.wikipedia.org/wiki/Virtual\\_Extensible\\_LAN](https://en.wikipedia.org/wiki/Virtual_Extensible_LAN)

### **arp spoof mitigation**

Edge OpenBSD PF Firewall - Securing the first gate of your network

<https://cryptsus.com/blog/edge-openbsd-pf-firewall-securing-the-first-gate-of-your-network.html> -> static arp

### **auth & auth**

Authentication protocol

[https://en.wikipedia.org/wiki/Authentication\\_protocol](https://en.wikipedia.org/wiki/Authentication_protocol)

Password Authentication Protocol

[https://en.wikipedia.org/wiki/Password\\_Authentication\\_Protocol](https://en.wikipedia.org/wiki/Password_Authentication_Protocol)

Challenge-Handshake Authentication Protocol

[https://en.wikipedia.org/wiki/Challenge-Handshake\\_Authentication\\_Protocol](https://en.wikipedia.org/wiki/Challenge-Handshake_Authentication_Protocol)

Extensible Authentication Protocol

[https://en.wikipedia.org/wiki/Extensible\\_Authentication\\_Protocol](https://en.wikipedia.org/wiki/Extensible_Authentication_Protocol)

AAA (computer security)

[https://en.wikipedia.org/wiki/AAA\\_\(computer\\_security\)](https://en.wikipedia.org/wiki/AAA_(computer_security))

## **eapol**

IEEE 802.1X

[https://en.wikipedia.org/wiki/IEEE\\_802.1X](https://en.wikipedia.org/wiki/IEEE_802.1X)

802.1X Authentication Services Configuration Guide, Cisco IOS Release 12.4T

[https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec\\_usr\\_8021x/configuration/12-4t/sec-user-8021x-12-4t-book/sec-vpn-ac-802-1x.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_usr_8021x/configuration/12-4t/sec-user-8021x-12-4t-book/sec-vpn-ac-802-1x.html)

What is 802.1X? How Does it Work?

<https://www.securew2.com/solutions/802-1x/>

Create A Secure Network With Allied Telesis Managed Layer 3 Switches

[https://www.alliedtelesis.com/sites/default/files/documents/configuration-guides/howto\\_secure\\_switches.pdf](https://www.alliedtelesis.com/sites/default/files/documents/configuration-guides/howto_secure_switches.pdf)

## **& friends**

AEGIS SecureConnect

<https://web.archive.org/web/20180901044423/https://www.suse.com/yes/83067.htm>

Protocol for Carrying Authentication for Network Access

[https://en.wikipedia.org/wiki/Protocol\\_for\\_Carrying\\_Authentication\\_for\\_Network\\_Access](https://en.wikipedia.org/wiki/Protocol_for_Carrying_Authentication_for_Network_Access)

## **segmentation**

Network topology

[https://en.wikipedia.org/wiki/Network\\_topology](https://en.wikipedia.org/wiki/Network_topology)

DMZ (computing)

[https://en.wikipedia.org/wiki/DMZ\\_\(computing\)](https://en.wikipedia.org/wiki/DMZ_(computing))

Screened subnet

[https://en.wikipedia.org/wiki/Screened\\_subnet](https://en.wikipedia.org/wiki/Screened_subnet)

Campus network

[https://en.wikipedia.org/wiki/Campus\\_network](https://en.wikipedia.org/wiki/Campus_network)

Wide area network

[https://en.wikipedia.org/wiki/Wide\\_area\\_network](https://en.wikipedia.org/wiki/Wide_area_network)

IEEE 802.1Q

[https://en.wikipedia.org/wiki/IEEE\\_802.1Q](https://en.wikipedia.org/wiki/IEEE_802.1Q)

## **netemu**

Packet Tracer

[https://en.wikipedia.org/wiki/Packet\\_Tracer](https://en.wikipedia.org/wiki/Packet_Tracer)

Cisco Packet Tracer

<https://www.netacad.com/courses/packet-tracer>

Introduction to Packet Tracer

<https://www.netacad.com/courses/packet-tracer/introduction-packet-tracer>

## **vlan++**

QinQ vs VLAN vs VXLAN

<https://community.fs.com/blog/qinq-vs-vlan-vs-vxlan.html>

Dynamic Trunking Protocol

[https://en.wikipedia.org/wiki/Dynamic\\_Trunking\\_Protocol](https://en.wikipedia.org/wiki/Dynamic_Trunking_Protocol)

VLAN Trunking Protocol

[https://en.wikipedia.org/wiki/VLAN\\_Trunking\\_Protocol](https://en.wikipedia.org/wiki/VLAN_Trunking_Protocol)

Cisco Discovery Protocol

[https://en.wikipedia.org/wiki/Cisco\\_Discovery\\_Protocol](https://en.wikipedia.org/wiki/Cisco_Discovery_Protocol)

Viewing CDP neighbor information

<https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-nmg%2FGUID-91699D55-B7D8-4977-89CD-2E035FE9EE16.html>

Manual:IP/Neighbor discovery

[https://wiki.mikrotik.com/wiki/Manual%3AIP/Neighbor\\_discovery](https://wiki.mikrotik.com/wiki/Manual%3AIP/Neighbor_discovery)

### **vlan hopping**

Cisco Networking Academy's Introduction to VLANs

<https://www.ciscopress.com/articles/article.asp?p=2181837&seqNum=8>

Configuration Examples Related to VLAN Features

[https://web.archive.org/web/20130128125232/http://www.cisco.com/en/US/docs/switches/lan/catalyst2900xl\\_3500xl/catalyst1900\\_2820/version8.00.03/scg/AleakyV.html](https://web.archive.org/web/20130128125232/http://www.cisco.com/en/US/docs/switches/lan/catalyst2900xl_3500xl/catalyst1900_2820/version8.00.03/scg/AleakyV.html)

VTP modes explained

<https://geek-university.com/ccna/vtp-modes-explained/>

Understanding VLAN Trunk Protocol (VTP)

<https://www.cisco.com/c/en/us/support/docs/lan-switching/vtp/10558-21.html>

### **double tagging**

VLAN hopping

[https://en.wikipedia.org/wiki/VLAN\\_hopping](https://en.wikipedia.org/wiki/VLAN_hopping)

VLANS WERE CREATED TO ISOLATE LANS, BUT NOT FOR THE PURPOSES OF SECURITY

<http://rikfarrow.com/Network/net0103.html>

---