

How to self learn Enterprise networks with Aruba

Video 3

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Channel SE France 
10/09/2021

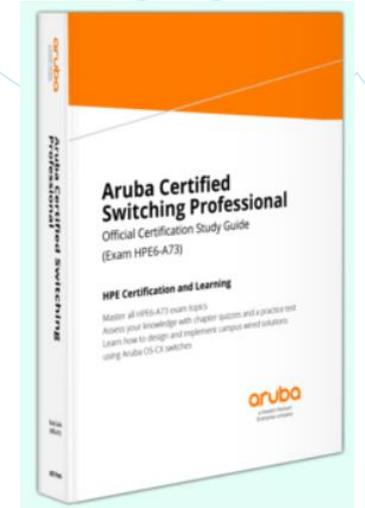


ACSP topics & goals



OFFICIAL ACSP CERTIFICATION STUDY GUIDE

1. Introduction to Aruba Switching
2. NetEdit
3. Network Analytics Engine (NAE)
4. VSX
5. ACLs
6. Advanced OSPF
7. BGP
8. IGMP
9. Multicast Routing
10. 802.1X Authentication
11. MAC Authentication
12. Dynamic Segmentation
13. Quality of Service
14. Additional Routing Technologies
15. Captive Portal Authentication



<https://hpepress.hpe.com/product/Aruba+Certified+Switching+Professional+Official+Certification+Study+Guide+HPE6-A73-Glossary+++PDF-19384>



Official 4 hours remote lab and guides : 80\$

<https://hpelabsonline.com>

<https://hpepress.hpe.com/catalog/Aruba-174>

Hewlett Packard Labs Online
Enterprise

Start: 02/25/21
End: 02/25/21
Keyword: [Search]

Calendar: FEBRUARY 2021
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New Booking: Thu Feb 25, 2021
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- AVAILABLE** 4 Hour Lab-ACSA Fast Track (Cisco) \$80.00
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Self-Directed Remote Labs - Aruba

Publications Sort: Publish Date - Newest first

- NEW** 4-Hour Implementing Aruba OS-CX Switching - Self-Directed Lab \$80.00
- NEW** 4-Hour Aruba OS-CX Switching Fundamentals - Self-Directed lab \$80.00
- NEW** 4-Hour ACSA Fast Track (Cisco) - Self-Directed Lab \$80.00
- Aruba Advanced ClearPass Troubleshooting & Solutions - Self-Directed Lab \$500.00
- Aruba Design Fundamentals - Self-Directed Lab \$300.00
- Implementing Aruba ClearPass - Self-Directed Lab \$300.00

ACSP Lab : <https://hpepress.hpe.com/product/4-Hour+Implementing+Aruba+OS-CX+Switching++Self-Directed+Lab-4-Hour+Implementing+Aruba+OS-CX+Switching++Self-Directed+Lab-19440>



Advanced labs you can build with AOS-CX simulator

<https://community.arubanetworks.com/community-home/digestviewer/viewthread?MessageKey=ee47602d-861e-407a-a269-1cd1f00725e0&CommunityKey=aa40c287-728e-4827-b062-5eff4ed6410b&tab=digestviewer#bmee47602d-861e-407a-a269-1cd1f00725e0>

Layer 2

AOS-CX Simulator Lab - L2 Access Management and Connectivity
AOS-CX Simulator Lab - Spanning Tree Basics
AOS-CX Simulator Lab - Deploying MSTP
AOS-CX Simulator Lab - Loop Protect
AOS-CX Simulator Lab - RPVST+
AOS-CX Simulator Lab - MVRP

Layer 3 Services

AOS-CX Simulator Lab - IPv4 DHCP
AOS-CX Simulator Lab - IPv6 SLAAC and DHCPv6

Security

AOS-CX Switch Simulator Lab - ACLs
AOS-CX Simulator Lab - Local MAC Match Authentication
AOS-CX Simulator Lab - RADIUS MAC Authentication
AOS-CX Simulator Lab - RADIUS 802.1X Authentication
AOS-CX Simulator Lab - RadSec

NetEdit Series

AOS-CX Simulator Lab - NetEdit 2.1 Part 1
AOS-CX Simulator Lab - NetEdit 2.1 Part 2
AOS-CX Simulator Lab - NetEdit 2.1 Part 3
AOS-CX Simulator Lab - NetEdit 2.1 Part 4

High Availability

AOS-CX Simulator Lab - VSX - Virtual Switching Extension (Part 1)
AOS-CX Simulator Lab - VSX (Part 2)

Multicast

AOS-CX Simulator Lab - Multicast PIM Dense Mode
AOS-CX Simulator Lab - Multicast PIM Sparse Mode
AOS-CX Simulator Lab - PIM-SM Troubleshooting

Management and Orchestration

AOS-CX Simulator Lab - L2 Access Management and Connectivity
AOS-CX Simulator Lab - L2 Access Management and Connectivity - Part 2
AOS-CX Simulator Lab - Web User Interface
AOS-CX Simulator Lab - Managing CX Checkpoints
AOS-CX Simulator Lab - SNMP
AOS-CX Simulator Lab - SNMPv3
AOS-CX Simulator Lab - NAE IP SLA
AOS-CX Simulator Lab - sFlow Part 1
AOS-CX Simulator Lab - Monitoring Aruba CX Switches

AOS-CX Switch Simulator Lab Tools

AOS-CX Simulator Lab - Saving Lab Configurations

Layer 3 Routing

AOS-CX Simulator Lab - Deploying OSPFv2
AOS-CX Simulator Lab - Basic BGP
AOS-CX Simulator Lab - VRF Part 1
AOS-CX Simulator Lab - VRF - Dynamic IVRL
AOS-CX Simulator Lab - OSPFv3 Fundamentals
AOS-CX Simulator Lab - OSPF BGP Route Redistribution

Overlay

AOS-CX Simulator Lab - Static VXLAN
AOS-CX Simulator Lab - VXLAN EVPN
AOS-CX Simulator Lab - VXLAN Centralized L3 Gateway
AOS-CX Simulator Lab - VXLAN EVPN Troubleshooting
AOS-CX Simulator Lab - VNBT - Virtual Network-Based Tunneling

AOS-CX Simulator Lab - BGP IPv6
AOS-CX Simulator Lab - BFD
AOS-CX Simulator Lab - BGP Internet
AOS-CX Simulator Lab - Dual-Homed Internet Access with a Single Border Gateway

Campus Series

AOS-CX Simulator Lab - Campus 3-Tier with R
AOS-CX Simulator Lab - Campus 2-Tier IPv4 v
AOS-CX Simulator Lab - Campus 2-Tier IPv4 L
AOS-CX Simulator Lab - Campus 3-Tier IPv4 L
AOS-CX Simulator Lab - Campus 2-Tier IPv4 R
AOS-CX Simulator Lab - Campus 2-Tier with II
AOS-CX Simulator Lab - Campus 2-Tier IPv6 Routed Access with RIPng and DHCPv6
AOS-CX Simulator Lab - Campus 2-Tier IPv6 Routed Access with OSPFv3 and SLAAC
AOS-CX Simulator Lab - Campus 2-Tier IPv6 L2 Access with VSX and OSPFv3
AOS-CX Simulator Lab - Campus 3-Tier IPv6 L3 Access with OSPFv3 MultiArea and SLAAC
AOS-CX Simulator Lab - Campus 3-Tier Routed Access with iBGP
AOS-CX Simulator Lab - Campus 2 Tier L3 Access with OSPF and Link Security

Datacenter Series

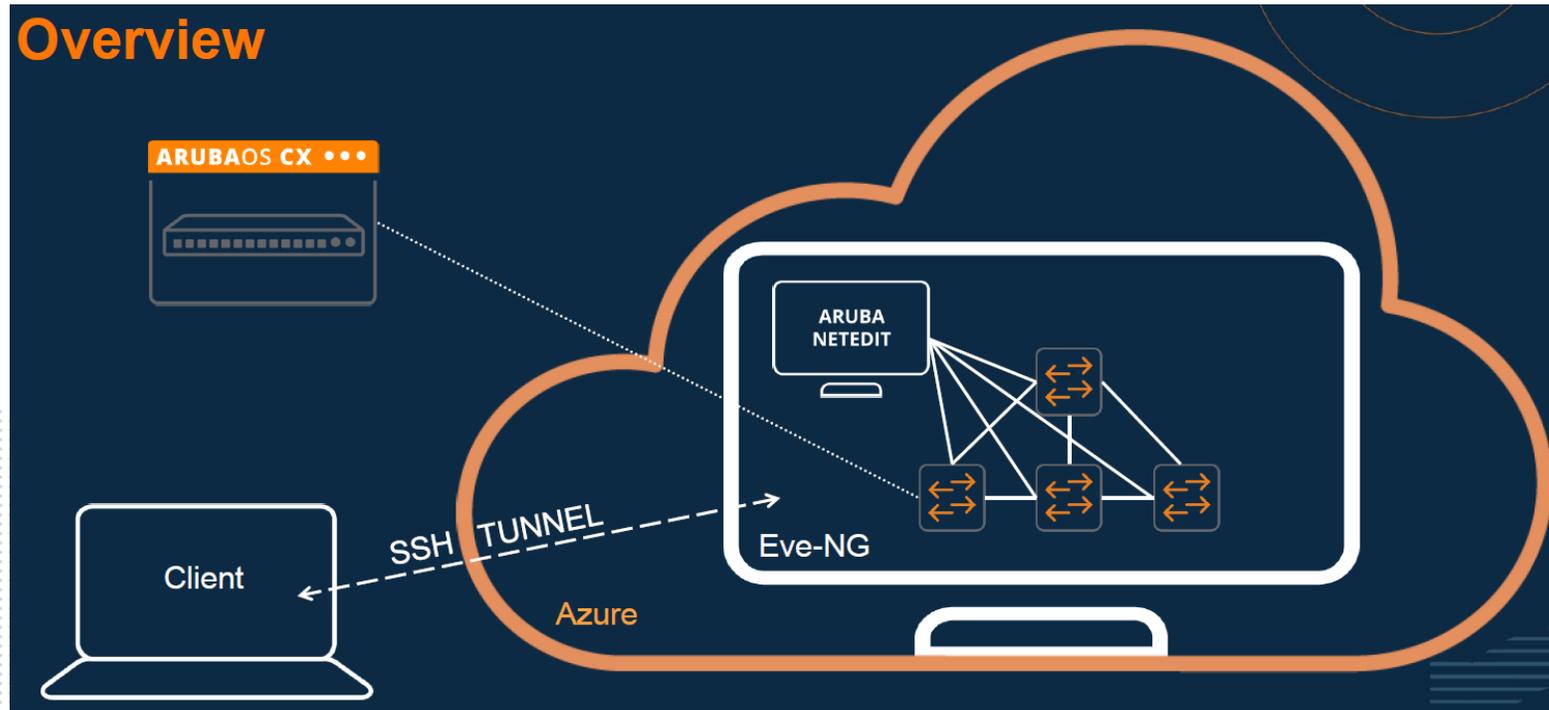
AOS-CX Simulator Lab - Data Center Bridging
AOS-CX Simulator Lab - Datacenter Collapsed Core
AOS-CX Simulator Lab - Datacenter 2-Tier L2 Fabric
AOS-CX Simulator Lab - DCN 2 Tier-L3 Fabric iBGP
AOS-CX Simulator Lab - DCN Layer 3 Spine and Leaf Fabric with OSPF and VXLAN



If you are a High School student



- If your PC is not powerful enough to run lot of simulator instances, you probably can ask your school IT staff to run in AWS / Azure an **EVE-NG** platform with CX simulator
- Then you will be able to connect remotly



NetEdit labs and videos (OVA available on ASP)

<https://www.youtube.com/c/ABCNetworking/search?query=netedit>



The screenshot displays the NetEdit interface with a network topology and various configuration panels. The network topology shows three buildings (BLDG1, BLDG2, BLDG3) connected to a central Core network (CORE-SW1, CORE-SW2, CORE-SW3). A specific tunnel is highlighted in orange and labeled "Selected tunnel".

Configuration Panels:

- Application:** Application_Health, application_health_monitors, Salesforce.com
- Segmentation:** Switch to Controller (10.6.9.9), Switch to Switch (45)
- Services:** Client_Services_Health, DNS
- Routing:** OSPF, Area, Router, Redistribute, Route_Track
- Bridging:** VLAN, MSTP
- Device:** hardware_device_health_monitors
- Other:** vxh_health_monitor, VSX_Health, system_resource_monitor, copp, lag_health_monitor, single_interface_bc_rx_stats, temp_sensor_status_transition_n, ipsh_threshold, test5

Properties: Link

Link	VLAN Name	VLAN	Interface State	Admin State	VTEP source address	VTEP peer address	Underlay VRF	VLAN	Type	Tunnel State
1 10.6.9.8 ↔ 10.6.8.19	vlan1	45	up	up	1.25.1.2	3.25.1.1	default	1	static	operational
1 10.6.9.8 ↔ 10.6.8.19	vlan1	45	up	up	1.25.1.2	3.25.1.1	default	1	static	operational

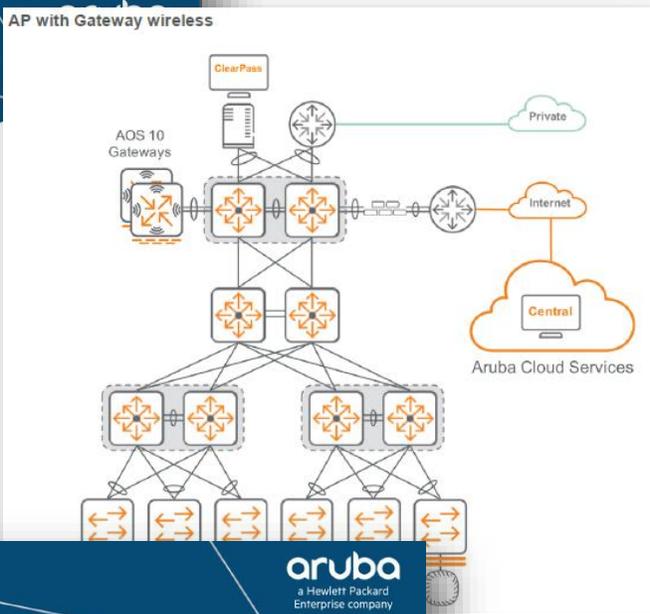


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ESP CAMPUS VOLUME 1

Design Guide



AP with Gateway wireless

AOS 10 Gateways

ClearPass

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Aruba Cloud Services

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ESP CAMPUS VOLUME 2

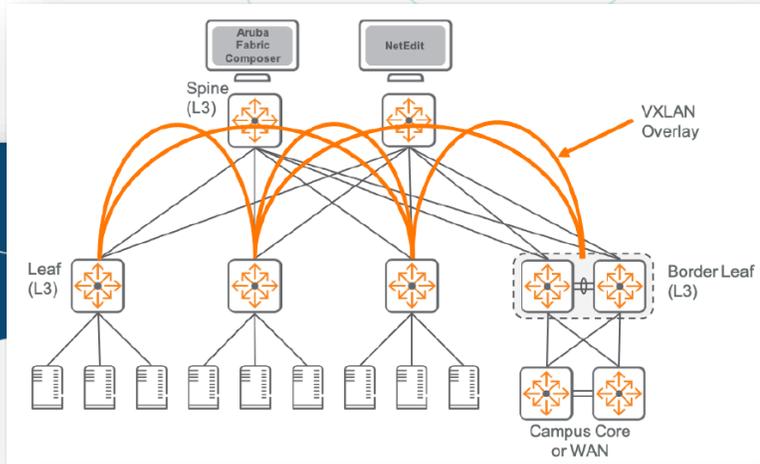
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ESP DATA CENTER VOLUME 1

Design Guide



Aruba Fabric Composer

NetEdit

Spine (L3)

Leaf (L3)

Border Leaf (L3)

Campus Core or WAN

VXLAN Overlay

Validated Solution Guide

ESP DATA CENTER VOLUME 2

Deployment Guide

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Prior to attempt the official exam, you can challenge your knowledge with 30 questions : 29.50\$

<https://hpepress.hpe.com/product/HPE6-A73+Practice+Test+Aruba+Certified+Switching+Professional-eBook-19392>

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HPE6-A73 Practice Test (Aruba Certified Switching Professional)

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The ACSP exam topics (60 questions)

<https://certification-learning.hpe.com/ext/datacard/Exam/HPE6-A73>



- **15%** Plan the wired network solution
- **43%** Install and configure the wired network solution
- **22%** Troubleshoot the wired network solution
- **20%** Manage, maintain, optimize, and monitor the wired network solution

Reach 71% over
60 questions
within 1h30

This in-depth practical guide is designed to help you configure and manage modern, open standards-based networking solutions. You will learn about ArubaOS-CX routing and switching technologies including :

- securing port access with Aruba's dynamic segmentation;
- implementing redundancy technologies such as Multiple Spanning Tree Protocol (MSTP);
- link aggregation techniques including Link Aggregation Protocol (LACP);
- switch virtualization with Aruba's Virtual Switching Extension (VSX) and Aruba's Virtual Switching Framework (VSF);
- layer 3 routing protocols including OSPF, BGP, IP multicast, and more.

What next ?

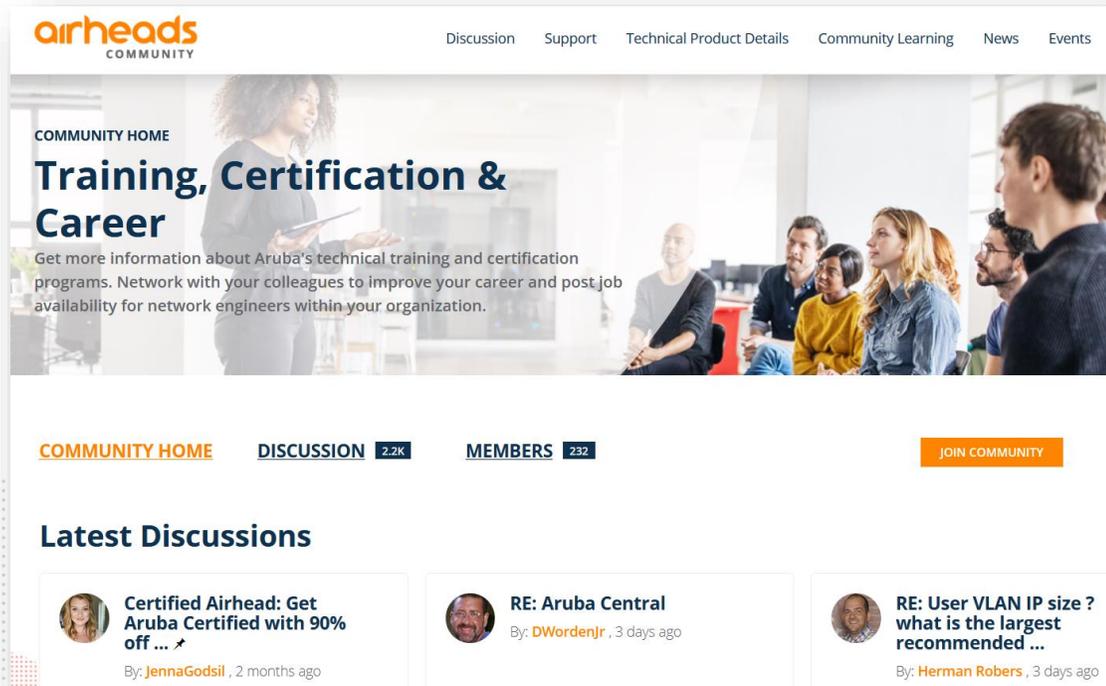
- Videos about :
 - Others / Advanced networks topics
 - How to register to pass an exam
 - ... and probably more later



How to come back and see new post/videos ? Easy !

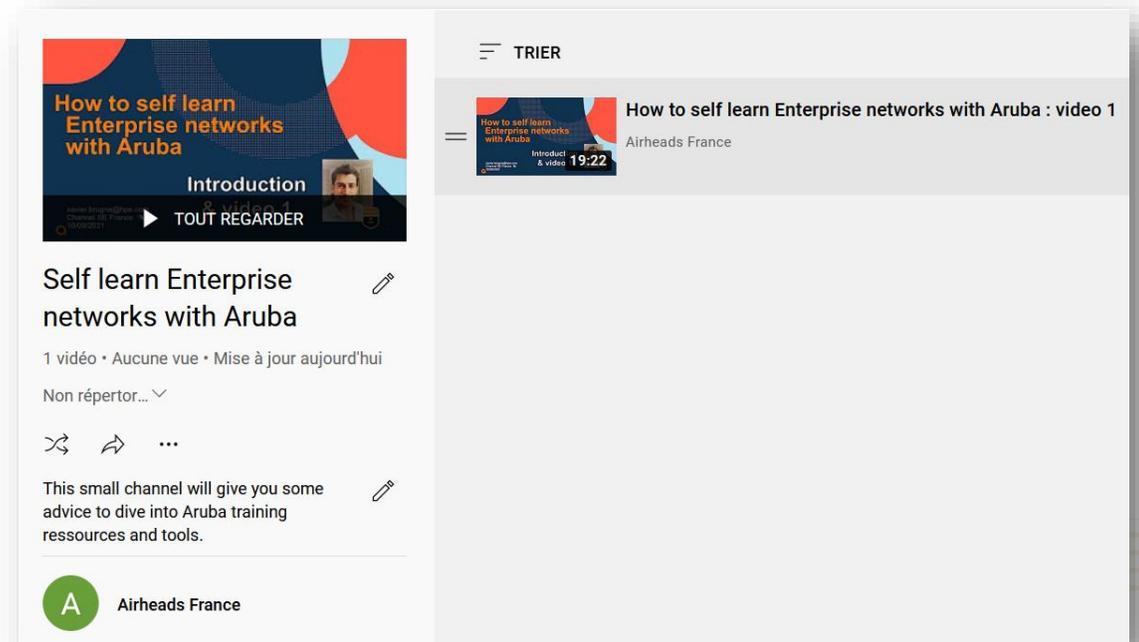
Follow that Airheads discussion group about trainings :

<https://community.arubanetworks.com/community-home?CommunityKey=58c7da15-9b46-4717-9ed7-086e70f70869>



My videos will be also on that playlist :

<https://www.youtube.com/playlist?list=PLelXszXBb2bFgiQmLezVyZtzwAX0mq9dR>



The Aruba logo consists of the word "aruba" in a lowercase, bold, orange sans-serif font. The letters are closely spaced, and the 'a' and 'u' have a distinctive shape with a small gap at the top.

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The background features a light blue grid of small dots that forms a large, faint outline of a map of the United States. The dots are more densely packed in the central and eastern parts of the map and become sparser towards the edges. In the bottom right corner, there is a large, solid orange shape that curves upwards and to the left, partially overlapping the white background.

Thanks