

How to self learn Enterprise networks with Aruba

Video 3

xavier.brugne@hpe.com
Channel SE France 🇫🇷
10/09/2021

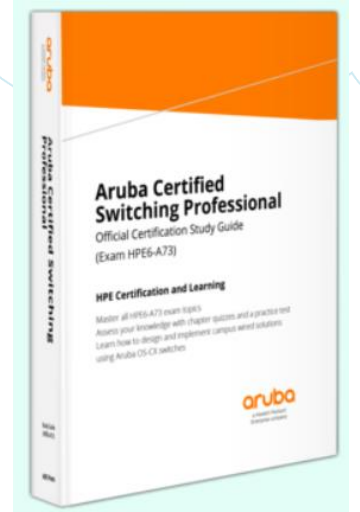


ACSP topics & goals



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>

Hewlett Packard Labs Online
Enterprise

Start: 02/25/21
End: 02/25/21
Keyword:

Calendar: FEBRUARY 2021
Sun Mon Tue Wed Thu Fri Sat
31 1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 1 2 3 4 5 6
Thursday February 25

New Booking: Thu Feb 25, 2021
[Back to Categories](#)

- AVAILABLE** 4 Hour Lab-ACSA Fast Track (Cisco) \$80.00
4 Hour self-directed remote lab access- ALL TIMES are UTC- Universal Time Coordinated
Enter your voucher to CONFIRM lab reservation and reflect your RESERVED status.
☒ Book Now
[Details](#)
[Availability](#)
- AVAILABLE** 4 Hour Lab-ACSA-ArubaOS-CX Switching Fundamentals \$80.00
4 Hour self-directed remote lab access- ALL TIMES are UTC- Universal Time Coordinated
Enter your voucher to CONFIRM lab reservation and reflect your RESERVED status.
☒ Book Now
[Details](#)
[Availability](#)
- AVAILABLE** 4 Hour Lab-ACSP-Implementing ArubaOS-CX Switching \$80.00
4 Hour self-directed remote lab access- ALL TIMES are UTC - Universal Time Coordinated
Enter your voucher to CONFIRM lab reservation and reflect your RESERVED status.
☒ Book Now
[Details](#)
[Availability](#)

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>

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

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

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

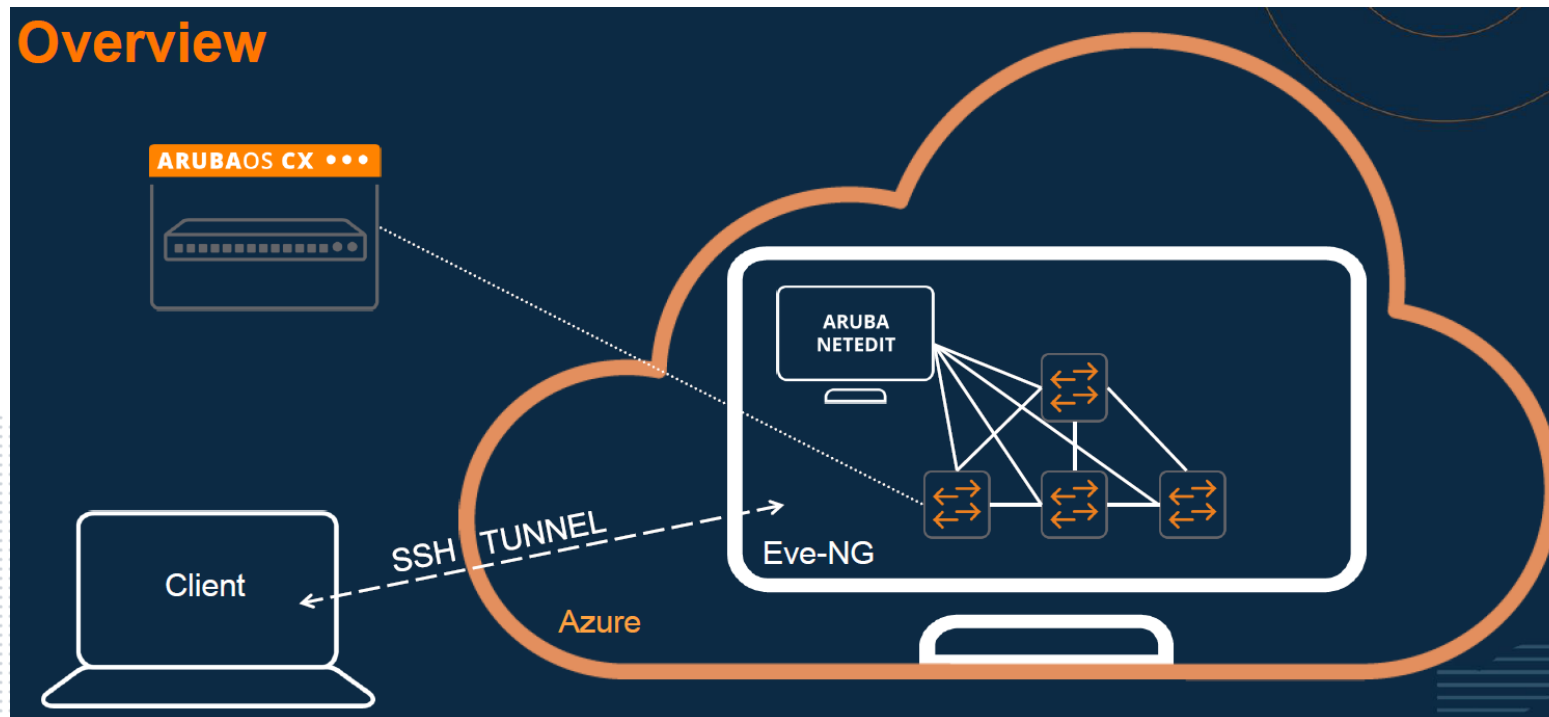
AOS-CX Simulator Lab - Data Center Bridging
AOS-CX Simulator Lab - Datacenter Collapsed Core
AOS-CX Simulator Lab - Datacenter 2-Tier L2 Fabric
AOS-CX Simulator Lab - DCN 2 Tier-L3 Fabric iBGP
AOS-CX Simulator Lab - DCN Layer 3 Spine and Leaf Fabric with OSPF and VXLAN



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>



NetEdit Videos

Creating a NetEdit Virtual Environment

This video shows how to install and configure NetEdit and ArubaOS-CX virtual switches in VirtualBox and GNS3.

Managing Devices in NetEdit

This video shows how to import devices into NetEdit, find the details of a device including its revision history and assigning attributes to devices.

CX Mobile App Templates and Stacking Pt1

This video shows how to create a template and what the different template input values do.

NetEdit 2.0 Network Topology overview

In this video we will cover the network topology and everything that can be done from this page.

Setting Up AOS-CX and NetEdit on GNS3

This video shows how to create a virtual network in GNS3 using AOS-CX devices and a NetEdit server.

Managing Configurations with NetEdit

This video shows the step by step process to make configuration changes on a set of devices.

CX Mobile App Templates and Stacking Pt2

This is a follow up to the template video to display how to utilize the mobile app and stacking.

NetEdit 2.0 Notifications

This video will showcase NetEdit notifications utilizing local logging and ServiceNow.

Managing Multiple Users in NetEdit

This video shows how to manage NetEdit users.

Network

18 Devices

Enter Search Query or Type (HELP)

Application

☒ Application_Health

☒ application_health_monitor

☒ 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

VLAN ID

VLAN ID

VLAN ID

MSTP

Instance

Instance

Instance

Device

☒ hardware_device_health_monitor

Other

☒ vx_health_monitor

☒ VSX_Health

☒ system_resource_monitor

☒ system_resource_monitor

☒ copp

☒ copp_monitor

☒ lag_health_monitor

☒ single_interface_bc_rx_stats

☒ Singleint_1_1_47_Mon

☒ Singleint_1_1_48_Mon

☒ temp_sensor_status_transition_n

☒ ipsla_threshold

☒ tests

Total Devices: 18

Managed: 15 (0 Unreachable)

Unmanaged: 3 (0 Unreachable)

Health Summary: All Managed

☒ Application

☒ Segmentation

☒ Services

☒ Routing

☒ Bridging

☒ Device

☒ Other

Properties: Link

1 10.6.9.8 -- 10.6.8.19

Segmentation: Switch to Switch

1 10.6.9.8 -- 10.6.8.19

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



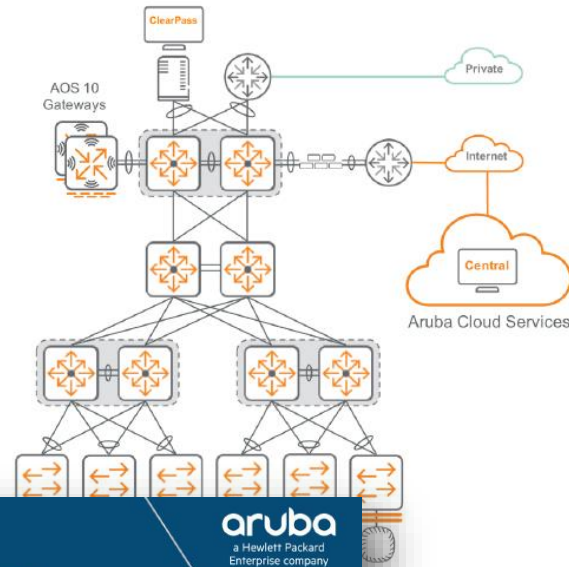
Great free architecture design guides

Validated Solution Guide

ESP CAMPUS VOLUME 1

Design Guide

AP with Gateway wireless



Validated Solution Guide

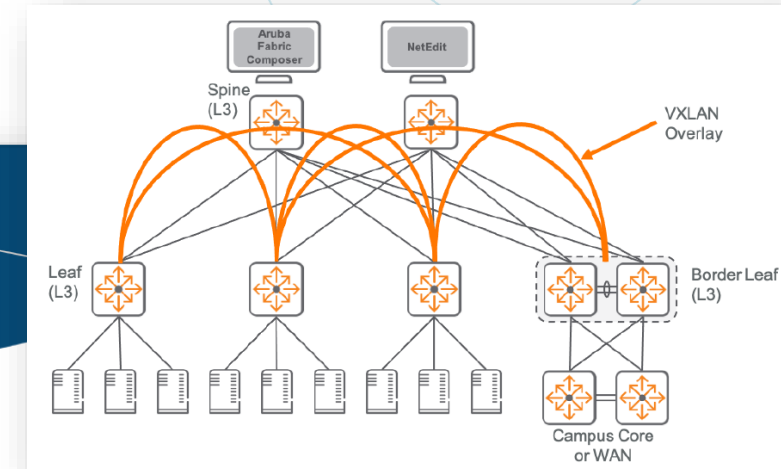
ESP CAMPUS VOLUME 2

Deployment Guide

Validated Solution Guide

ESP DATA CENTER VOLUME 1

Design Guide



Validated Solution Guide

ESP DATA CENTER VOLUME 2

Deployment Guide

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>

HPE Press

[Books](#)
[Self-Directed Labs](#)
[Bundles](#)
[Exam Vouchers](#)
[Practice Tests](#)
[List of resources](#)

Search HPE Press

HPE6-A73 Practice Test (Aruba Certified Switching Professional)

+

Add to Wishlist

Send us your feedback

Item	Quantity	Item Price
eBook	<div> <div>Gift me!</div> <div>1</div> </div>	\$29.50

Change Currency

United States Dollar

Total price: **\$29.50**

Add To Cart

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 ?

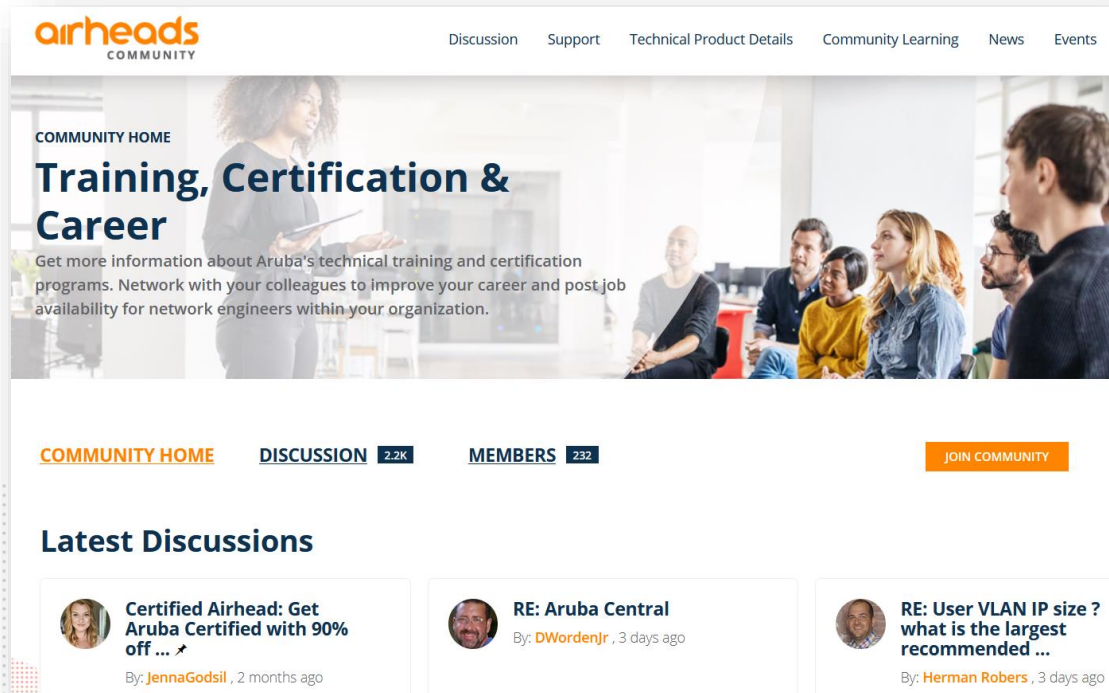
- Videos about :
 - Others / Advanced networks topics
 - How to register to pass an exam
 - ... and probably more later



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

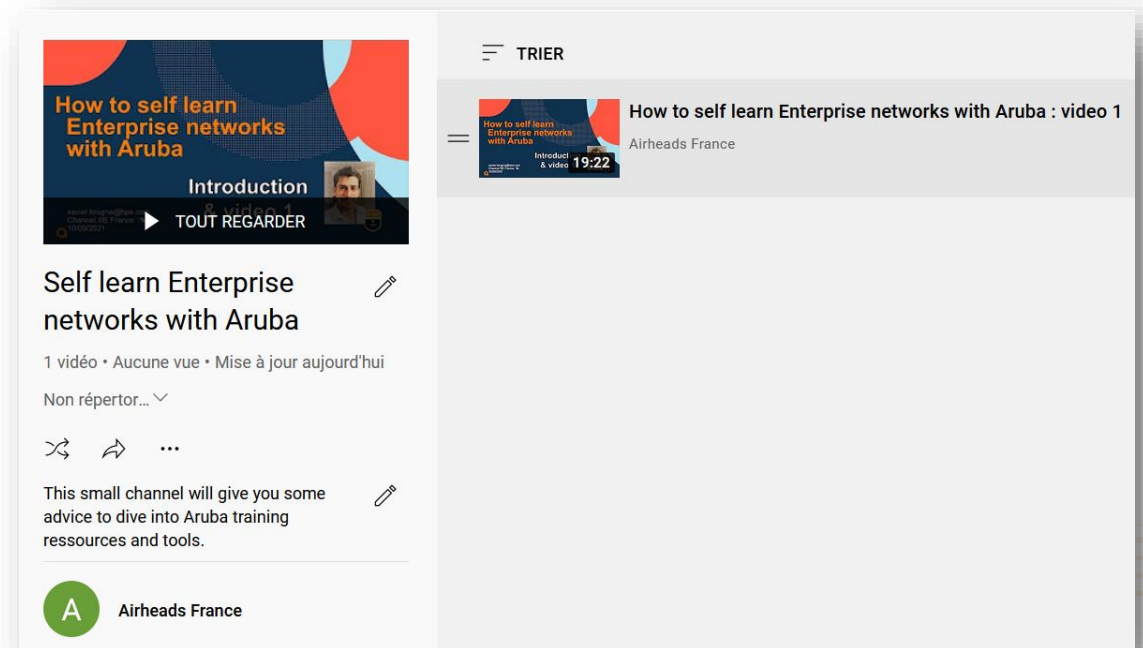
Follow that Airheads discussion group about trainings :

<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>



Thanks

aruba

a Hewlett Packard
Enterprise company