Cisco WLC 9800 on Windows 11

2024年 2月

Topology

Internet

Routed port
G1/0/3 192.168.0.199

WLC
G1 : 192.168.1.7
G2: DHCP (vmware)

VLAN #1
wired

G 1/0/4

C3560CX POE
VLAN #1 : 192.168.1.1

G1/0/5
VLAN #1

Windows10
Wired : 192.168.1.5
vmware : ?

AP
9115
192.168.1.10
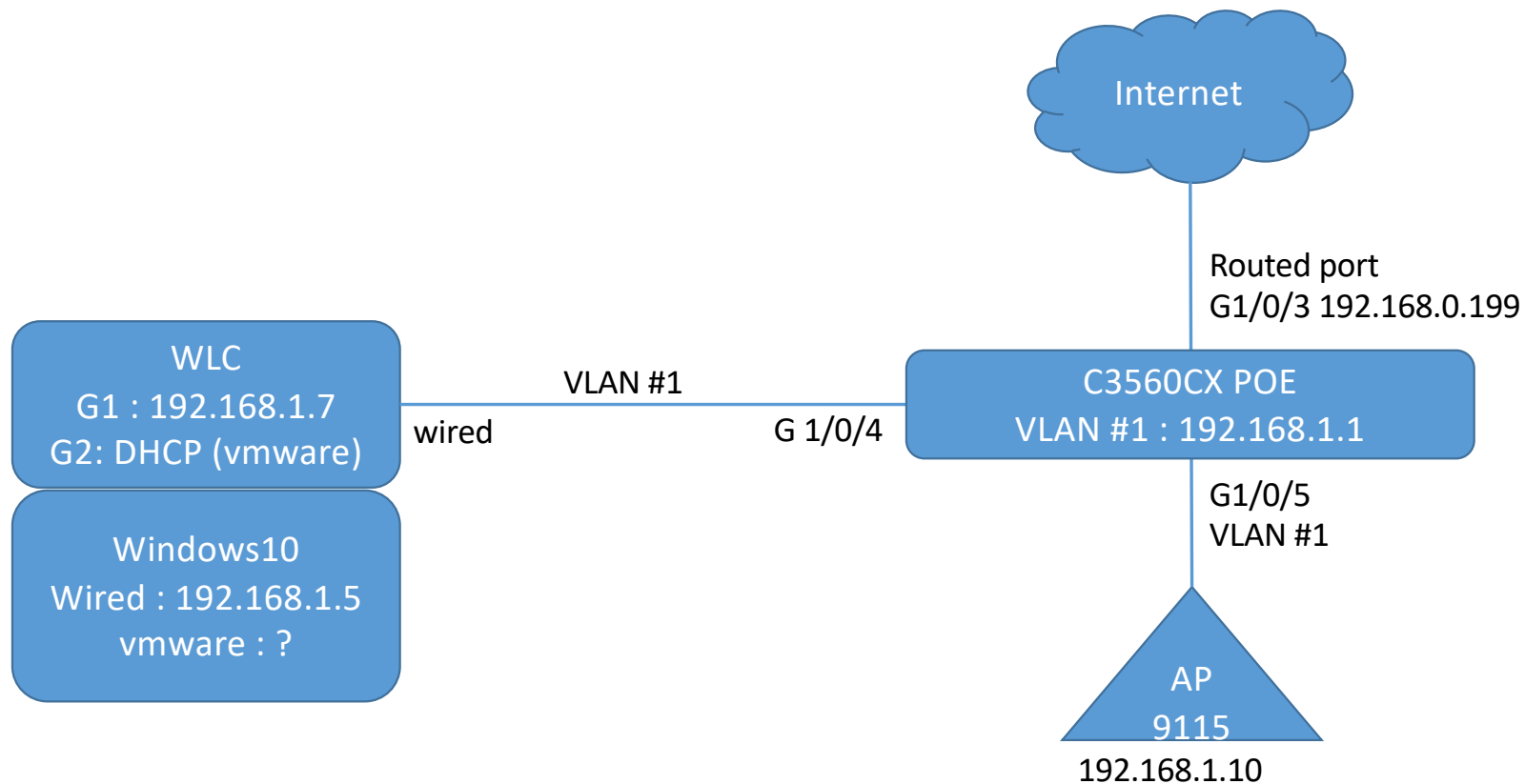
Vmware connection : connection from windows 10 PC for config and troubleshooting. Optional.

Catalyst Switch Config

```
interface GigabitEthernet1/0/3
 no switchport
 ip address 192.168.0.199 255.255.255.0

interface GigabitEthernet 1/0/3 ~ 4
 switchport mode access
 spanning-tree portfast edge

interface Vlan1
 ip address 192.168.1.1 255.255.255.0

ip route 0.0.0.0 0.0.0.0 192.168.0.1
```

WLC Install

Install on Windows 10

- Windows 10
    - On Virtual BOX ➔ failed
    - On Vmware Workstation ➔ Okay
    - Trunk 802.1Q didn't work ➔ Use VLAN 1 only ➔ maybe realtek NIC issue, I guess.

- Download .iso from cisco.com

- Vmware workstation config
    - 2.x linux 64 bit, 8Mbps mem, 40G storage, 4 vCPU
    - Add one more nic : one for wired and one for vmware host (optional)

virtual NIC type change

vWLC_16.12.4a

Open
Open With   ▶
Show Package Contents

vWLC_16.12.4a.vmx
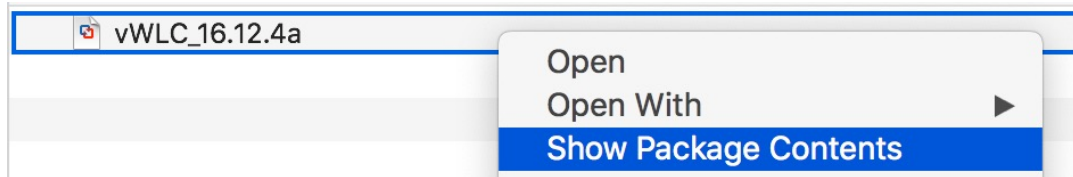
```
ethernet0.virtualDev = "e1000"
```

```
ethernet1.virtualDev = "e1000"
```

```
ethernet0.virtualDev = "vmxnet3"
```

```
ethernet1.virtualDev = "vmxnet3"
```

- Do not use notepad.
- Use notepad++!

Initial WLC CLI config (for web connetion and telnet)

```
hostname vWLC_17.9.4a
no ip domain lookup
username cisco pri 15 password cisco
enable password cisco
line vty 0 4
  password cisco
  transport input all
interface G2
  no switchport
  ip add dhcp ➜ then, static
write
```

Initial Config using GUI

CISCO

Username
cisco

Password
•••••

Language: English | 日本語

Log In

Select Country Code ✕

Selected Country ● 🔍 KE ✕

KE

Country Code	Name
KE	Korea Extended (CK)

1. General Settings

Date	19 Sep 2020 📅
Time / Timezone	21:25:25 Korean ▼ /
NTP Servers	Enter NTP Server ⊕
	Added NTP servers
AAA Servers	Enter Radius Server IP Enter Key 👁 ⊕
	Added AAA servers

Wireless Management Settings

Port Number ●	GigabitEthernet1 ▼
VLAN*	1
IPv4	☑
Wireless Management IP* ●	192.168.1.7
Subnet Mask* ●	255.255.255.0
Default Gateway* ●	192.168.1.1
Management VLAN DHCP Server	x.x.x.x (optional)
IPv6	☐

2. Wireless Network Settings

Next

3. Advanced Settings

Client Density	◄ Low Typical High ►
RF Group Name*	default
Traffic Type	Data and Voice ▼
Virtual IP Address	192.0.2.1
AP Certificate	Generate Certificate YES ■
⚠ AP Certificate is needed for APs to join the controller	
Generate Certificate	■ NO

4. Summary

Finish

Trustpoint config & **reboot**
after set up the mgmt. IP address of WLC

<mark>wireless config vwlc-ssc key-size 2048 signature-algo sha256 password 0 \<pwd\></mark>
<mark>C9800#show wireless management trustpoint</mark>
Trustpoint Name : ewlc-default-tp
Certificate Info : Available
Certificate Type : SSC
Certificate Hash : c4e57f728e523f64ade21597ab8ee472e7a7a8b7
Private key Info : Available
FIPS suitability : Not Applicable

[*10/21/2019 17:30:17.7700] CAPWAP State: Discovery
[*10/21/2019 17:30:17.7730] Discovery Request sent to 192.168.30.200, discovery type STATIC_CONFIG(1)
[*10/21/2019 17:30:17.7770] Discovery Request sent to 192.168.30.200, discovery type STATIC_CONFIG(1)
[*10/21/2019 17:30:17.7790] Discovery Request sent to 255.255.255.255, discovery type UNKNOWN(0)
[*10/21/2019 17:30:17.7790] Discovery Response from 192.168.30.200
[*10/21/2019 17:30:17.7800] Discovery Response from 192.168.30.200
- [*10/21/2019 17:30:17.7810] Discovery Response from 192.168.30.200
- [*10/21/2019 17:30:26.0000]
- [*10/21/2019 17:30:26.0000] CAPWAP State: DTLS Setup
- [*10/21/2019 17:31:23.0150]
- [*10/21/2019 17:31:23.0150] CAPWAP State: DTLS Teardown
- [*10/21/2019 17:31:23.0260] Aborting image download(0x0): Dtls cleanup,
- [*10/21/2019 17:31:23.0850] do ABORT, part1 is active part
- [*10/21/2019 17:31:23.1000] upgrade.sh: Cleanup tmp files ...
- **[*10/21/2019 17:31:27.7670] No more AP manager addresses remain..**
- **[*10/21/2019 17:31:27.7670] No valid AP manager found for controller 'c9800' (ip: 192.168.30.200)**