

# Fortinet

## Exam Questions FCP\_FWF\_AD-7.4

FCP - Secure Wireless LAN 7.4 Administrator



**NEW QUESTION 1**

When enabling a Security Fabric connection on a FortiGate interface to manage FortiAP devices, which two types of CAPWAP communication channels are established between FortiGate and the FortiAP devices? (Choose two)

- A. Control channels
- B. Data channels
- C. Security channels
- D. Fortlink channels

**Answer:** AB

**Explanation:**

When enabling a Security Fabric connection on a FortiGate interface to manage FortiAP devices, the following two types of CAPWAP (Control and Provisioning of Wireless Access Points) communication channels are established:

Control channels:

Correct. The control channel is used for management and control information between the FortiGate (controller) and FortiAP. This includes configuration, monitoring, and state updates.

Data channels:

Correct. The data channel carries client traffic between the FortiAP and FortiGate. This enables the FortiGate to apply security policies, content filtering, and other services to wireless client data.

Analysis of Other Options:

\* C. Security channels:

There is no specific security channel in CAPWAP terminology.

\* D. Fortlink channels:

FortLink is used for FortiSwitch management, not FortiAPs. CAPWAP is the protocol for FortiAP management.

References:

FortiOS 7.4 Administration Guide, Wireless Controller and CAPWAP sections: The communication between the FortiGate and FortiAP uses CAPWAP, which establishes both a control channel for management and a data channel for client traffic.

**NEW QUESTION 2**

Refer to the exhibit.

## DHCP server settings

```
config system dhcp server
  edit 1
    set dns-service default
    set default-gateway 10.0.10.254
    set netmask 255.255.255.0
    set interface "WLAN01"
    config ip-range
      edit 1
        set start-ip 10.0.10.2
        set end-ip 10.0.10.100
      next
    end
  next
end
```

## RADIUS configuration

Username:	user1
<input type="checkbox"/> Disabled	
<b>RADIUS Attribute:</b>	
Vendor:	Default
Attribute ID:	Tunnel-Type
Value:	Integer
Type:	Integer
<b>RADIUS Attribute:</b>	
Vendor:	Default
Attribute ID:	Tunnel-Medium-Type
Value:	IEEE-802
Type:	Integer
<b>RADIUS Attribute:</b>	
Vendor:	Default
Attribute ID:	Tunnel-Private-Group-Id
Value:	infrastructure
Type:	String
<input type="button" value="+ Add RADIUS Attribute"/>	

User1 is part of the infrastructure department and connects to the ONBOARD wireless network using the credentials uteri. However, the dynamic VLAN assignment is not working  
 Which configuration step must you take to fix this issue?

- A. Disable the DHCP server on ONBOARD to allow VLAN assignment.
- B. Add user1 in one of the VLAN names
- C. Update user1 RADIUS attributes to include a VLAN ID attribute ID
- D. Create a new VLAN name 'infrastructure' with a VLAN ID associated with it

**Answer: C**

**Explanation:**

Analysis of the Exhibits and Scenario:

The DHCP server configuration is correct for dynamic assignment within a specified IP range for the interface ??WLAN01??.

The RADIUS configuration for user1 includes:

Tunnel-Type (should be set to VLAN, but value is missing)

Tunnel-Medium-Type (set to IEEE-802, which is correct for Ethernet/WiFi) Tunnel-Private-Group-Id (set to ??infrastructure?? as a string)

The problem described: Dynamic VLAN assignment is not working for user1.

How Dynamic VLAN Assignment Works in 802.1X/EAP (with FortiGate/FortiAP):

When a user authenticates, the RADIUS server returns attributes specifying the VLAN that should be assigned.

The critical attributes are:

Tunnel-Type (must be set to value ??VLAN??. which is integer 13) Tunnel-Medium-Type (must be ??IEEE-802??. integer 6)

Tunnel-Private-Group-Id (can be the VLAN name or VLAN ID, depending on your configuration) Problem in the Exhibit:

The Tunnel-Type value is missing! It must be set to 13 (for VLAN).

The Tunnel-Medium-Type and Tunnel-Private-Group-Id are correctly set. Corrective Action:

Update user1's RADIUS attributes so that Tunnel-Type is set to the correct value for VLAN (integer 13).

Without this, FortiGate/FortiAP will not know to interpret the returned VLAN name or ID for dynamic assignment.

Review of Options:

Disable the DHCP server on ONBOARD to allow VLAN assignment. Irrelevant; DHCP server presence does not affect dynamic VLAN assignment. Add user1 in one of the VLAN names

This is not how dynamic VLAN assignment works. The RADIUS response must include the correct VLAN assignment.

Update user1 RADIUS attributes to include a VLAN ID attribute ID

Correct. You must set Tunnel-Type (13) and possibly provide the VLAN ID in Tunnel-Private-Group-Id. Create a new VLAN name 'infrastructure' with a VLAN ID associated with it

Not the root cause; you must first ensure the correct attributes are present in the RADIUS response. Summary:

The missing Tunnel-Type attribute value is the reason dynamic VLAN assignment is not working. The correct configuration requires setting Tunnel-Type = 13 (VLAN) for user1 in the RADIUS server.

### NEW QUESTION 3

A FortiAP device is connected directly to a FortiGate interface. What discovery method will be used to provision the FortiAP device?

- A. FortiGate discovers the FortiAP IP address from DHCP option 138.
- B. FortiGate discovers the FortiAP through the received broadcast packets.
- C. FortiAP discovers FortiGate by reviewing the vendor class value.
- D. FortiAP discovers FortiGate by connecting to FortiLAN Cloud to verify its management license.

**Answer: B**

#### Explanation:

When a FortiAP is directly cabled to a FortiGate interface, it sends out a broadcast CAPWAP discovery packet. The FortiGate listens for these on its interfaces and then discovers/provisions the FortiAP automatically.

### NEW QUESTION 4

Which two management services support connecting FortiAPs to the FortiPresence cloud? (Choose two.)

- A. FortiSASE
- B. FortiGate
- C. FortiLAN Cloud
- D. FortiSwitch Manager

**Answer: BC**

#### Explanation:

FortiPresence is Fortinet's Wi-Fi analytics/cloud presence platform.

FortiAPs can be managed directly by FortiGate or FortiLAN Cloud and connect their analytics/events to the FortiPresence cloud for presence analytics.

FortiSASE and FortiSwitch Manager do not provide FortiPresence integration for APs.

### NEW QUESTION 5

Which two roles does FortiPresence analytics assist in generating presence reports? (Choose two.)

- A. Gathering details about on-site guest users
- B. Reporting potential threats by on-site guest users
- C. Comparing current data with historical records
- D. Predicting the number of on-site guest users

**Answer: AC**

#### Explanation:

FortiPresence analytics is a platform for presence analytics—monitoring WiFi user presence, dwell time, and visitor trends in physical spaces.

A: It collects and reports details about on-site guest users, such as visit duration and repeat visits.

C: It enables comparison of current user presence and activity data with historical trends, supporting operational and marketing analysis.

B (reporting potential threats) is not a function of presence analytics.

D (predicting future guest counts) is not a core function; FortiPresence reports on actual and historical data, not predictive analytics.

### NEW QUESTION 6

What is the relationship between wireless channels and data transmission?

- A. The wider the channel the more data it can carry
- B. Data is transmitted over only one wireless channel at a time
- C. The more wireless channels, the more power consumption is required
- D. A wireless channel is allocated to transmit data unidirectionally

**Answer: A**

#### Explanation:

Wireless channels have a defined bandwidth (e.g., 20 MHz, 40 MHz, 80 MHz).

Wider channels can carry more data simultaneously, as there's more spectral space for transmission.

Modern Wi-Fi standards (802.11n/ac/ax) use channel bonding to increase throughput by widening channels.

The other options are not correct:

Data can be transmitted across multiple bonded channels.

More channels do not necessarily mean higher power use.

Channels are used bidirectionally.

**NEW QUESTION 10**

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