

EXAMS  SUCCESS

Fortinet

**FCSS_LED_AR-
7.6**

Questions & Answers

**Fortinet NSE 6 - LAN Edge 7.6
Architect**

(Demo Version - Limited Content)



Version: 6.0

Question: 1

A network engineer is deploying FortiGate devices using zero-touch provisioning (ZTP). The devices must automatically connect to FortiManager and receive their configurations upon first boot. However, after powering on the devices, they fail to register with FortiManager.

What could be a possible cause of this issue?

- A. The FortiGate device requires manual intervention to accept the FortiManager connection.
- B. In this scenario, the ZTP process works only when devices are connected using a console cable.
- C. The FortiGate device must be preloaded with a configuration file before ZTP can function.
- D. The FortiManager IP address is not reachable over TCP port 541.

Answer: D

Explanation:

Zero-Touch Provisioning (ZTP) for FortiGate devices is handled through FortiDeploy, which automatically connects a FortiGate to FortiManager so the device can download configuration templates and be centrally managed.

For ZTP to work, the newly booted FortiGate must successfully reach FortiManager. One of the critical requirements is connectivity over the FGFM (FortiGate–FortiManager) management protocol, which uses:

TCP Port 541

This is clearly stated in multiple Fortinet documents:

FortiGate Cloud Admin Guide lists port 541 as the management channel used for FortiGate → FortiManager / FortiGate Cloud communications: “Management... Protocol: TCP, Port: 541”

FortiOS Administration Guide also confirms this: “FortiManager provides remote management of FortiGate devices over TCP port 541.”

Since ZTP uses FortiDeploy to push the FortiManager IP to the device and relies on FGFM (port 541) for registration and configuration delivery, any failure on this port breaks the entire ZTP workflow.

Why option D is correct

If the FortiGate cannot reach FortiManager on TCP/541, it cannot register, cannot be authorized, and cannot receive its configuration — leading to a ZTP failure.

This is the most common cause in real deployments:

Firewall blocking TCP/541

Upstream NAT device not forwarding 541

ISP restrictions

Incorrect FortiManager IP or routing issue

ZTP device behind a network that does not allow outbound 541

Why the other options are incorrect

A . The FortiGate device requires manual intervention to accept the FortiManager connection.

Incorrect.

ZTP is built specifically to avoid manual intervention. Once the FortiDeploy key is used, the device auto-connects to FortiManager without needing local acceptance.

B . ZTP works only when devices are connected using a console cable.

Incorrect.

ZTP requires no console cable — that's the whole point. It relies on DHCP, WAN connectivity, and FortiDeploy auto-join.

C . The FortiGate device must be preloaded with a configuration file before ZTP can function.

Incorrect.

Preloading configuration defeats the purpose of ZTP.

ZTP delivers the initial configuration automatically from FortiManager using FortiDeploy.

LAN Edge 7.6 Architect Context

LAN Edge deployments often use FortiManager as the central orchestrator for:

FortiSwitch management via FortiLink

FortiAP wireless provisioning

SD-Branch configuration templates

Security Fabric automation

For all of this, ZTP enables remote sites to deploy FortiGate, FortiSwitch, and FortiAP with no on-site expertise.

If TCP/541 to FortiManager is blocked, the entire LAN Edge deployment pipeline fails, making option D the only valid and document-supported answer.

Question: 2

Which FortiGuard licenses are required for FortiLink device detection to enable device identification and vulnerability detection?

- A. FortiGuard Vulnerability Management and FortiGuard Endpoint Protection
- B. FortiGuard Threat Intelligence and FortiGuard IoT Detection
- C. FortiGuard Threat Intelligence and FortiGuard Endpoint Protection
- D. FortiGuard Attack Surface Security and FortiGuard IoT Detection

Answer: D

Explanation:

FortiLink device detection relies on FortiGate's Device Identification and IoT Detection capabilities to classify devices connected to FortiSwitch ports.

To enable device identification and vulnerability detection for IoT/endpoint devices in LAN Edge deployments, FortiGate must subscribe to the correct FortiGuard services.

1. Required FortiGuard License for Device Identification (IoT Detection)

The FortiOS documentation clearly states:

“IoT detection service... requires an Attack Surface Security Rating service license to download the IoT signature package.”

Additionally:

“The following settings are required for IoT device detection:

A valid Attack Surface Security Rating service license to download the IoT signature package.”

This service provides:

IoT signature package

IoT device classification

Device behavior profiling

This makes Attack Surface Security mandatory for FortiLink device detection.

2. Required FortiGuard License for Device Vulnerability Detection

FortiOS further clarifies that IoT vulnerabilities require the IoT Detection license, which is included under the same Attack Surface service entitlement:

“To detect IoT vulnerabilities the FortiGate must have a valid IoT Definitions license...”

The IoT Definitions license comes with the Attack Surface Security Rating service and is used for:

Scanning connected devices

Identifying IoT/endpoint vulnerabilities

Reporting vulnerability severity

Enabling NAC-based remediation (VLAN steering, port isolation)

In LAN Edge Architect, this license combination is emphasized as a foundational requirement for:

FortiSwitch NAC

FortiLink device profiling

Automated quarantine actions

IoT device classification

Vulnerability-based segmentation

3. Why the Correct Answer Is Option D

Option D lists:

✓ FortiGuard Attack Surface Security

✓ FortiGuard IoT Detection

These are exactly the services required per FortiOS 7.4.1:

Attack Surface Security Rating→ provides IoT signature package + vulnerability data

IoT Detection (Definitions)→ enables actual device-type and vulnerability identification

Together they power FortiLink Device Detection and IoT Vulnerability Detection, which are essential LAN Edge security functions.

4. Why Other Options Are Incorrect

A . Vulnerability Management + Endpoint Protection

Not used for FortiLink device detection; Endpoint detection relies on IoT service, not FortiClient.

B . Threat Intelligence + IoT Detection

Threat Intelligence (ThreatIntel DB) is used for FAZ IOC, not LAN Edge device detection.

C . Threat Intelligence + Endpoint Protection

Same issue—does not provide IoT device classification or vulnerability scanning.

LAN Edge 7.6 Architect Context Summary

In LAN Edge designs:

FortiGate acts as the controller for FortiSwitch via FortiLink.

Device detection is done at the FortiGate level using NAC/IoT signature capabilities.

Vulnerability detection enables dynamic segmentation decisions (e.g., move device to quarantine VLAN).

To support this, two licenses are mandatory:

Attack Surface Security (includes Security Rating + IoT Detection DB)

IoT Detection (part of the same entitlement, but explicitly required for vulnerability detection)

Thus the verified answer aligns perfectly with LAN Edge operational requirements and Fortinet documentation.

Question: 3

Refer to the exhibits.

VAP configuration

```
config wireless-controller vap
  edit "Corporate"
    set ssid "Corp"
    set security wpa2-only-enterprise
    set auth radius
    set radius-server "FAC-Lab"
    set intra-vap-privacy enable
    set schedule "always"
    set vlan-pooling wtp-group
    config vlan-pool
      edit 101
        set wtp-group "Floor_1"
      next
      edit 102
        set wtp-group "Office"
      next
    end
  next
end
```

Wi-Fi zone table

WIFI SSID ?				
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Corp (Corporate)	WIFI SSID	0.0.0.0/0.0.0.0
<input type="checkbox"/>	<input type="checkbox"/>	Corp.101	VLAN	0.0.0.0/0.0.0.0
<input type="checkbox"/>	<input type="checkbox"/>	Corp.102	VLAN	10.0.20.1/255.255.255.0
<input type="checkbox"/>	<input type="checkbox"/>	wqtn.5.Corporat	VLAN	0.0.0.0/0.0.0.0
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Guest (Guest)	WIFI SSID	0.0.0.0/0.0.0.0
<input type="checkbox"/>	<input type="checkbox"/>	Student01 (Student01)	WIFI SSID	0.0.0.0/0.0.0.0
Zone 1				
<input type="checkbox"/>	<input type="checkbox"/>	Corp.zone	Zone	Corp.101 Corp.102

The exhibits show the VAP configuration, Wi-Fi SSIDs, and zone table.

Which two statements describe how FortiGate handles VLAN assignment for wireless clients?
(Choose two.)

- A. FortiGate will load balance clients using VLAN 101 and VLAN 102 and assign them an IP address from the 10.0.3.0/24 subnet.
- B. All clients connecting to the Corp Zone will receive an IP address from the 10.0.20.0/24 subnet.
- C. Clients connecting to APs in the Floor 1 group will not be able to receive an IP address.
- D. Clients connecting to APs in the Office group will be assigned to VLAN 102.

Answer: C,D

Explanation:

The VAP configuration clearly shows VLAN pooling using WTP-groups:

```
set vlan-pooling wtp-group
```

```
config vlan-pool
```

```
edit 101
```

```
set wtp-group "Floor_1"
```

```
edit 102
```

```
set wtp-group "Office"
```

How VLAN assignment works in this mode

VLAN-pooling with wtp-group mode means:

Each AP group (WTP group) is tied to exactly one VLAN in the pool.

The FortiGate does not load balance VLANs.

Instead, VLANs are mapped per AP group, not per client.

Now verify each answer option:

A . FortiGate will load balance clients using VLAN 101 and 102...

✘ Incorrect.

FortiGate does NOT load-balance clients when vlan-pooling is set to wtp-group.

Each AP group receives only the VLAN mapped to it.

B . All clients in the Corp zone get IPs from 10.0.20.0/24

✘ Incorrect.

In the Wi-Fi zone table, only Corp.102 has an IP subnet:

Corp.101 → 0.0.0.0/0.0.0.0 (no IP assigned → clients get no DHCP)

Corp.102 → 10.0.20.1/255.255.255.0

Thus, clients associated to VLAN 101 cannot get IPs.

C . Clients connecting to APs in the Floor_1 group cannot receive an IP address

✔ Correct.

Reason:

Floor_1 WTP-group → VLAN101

VLAN 101 has no IP in the Wi-Fi table → 0.0.0.0/0.0.0.0

No DHCP = Clients receive no IP address

D . Clients connecting to APs in the Office group will be assigned to VLAN 102

✔ Correct.

Reason:

Office WTP-group maps to VLAN102

VLAN 102 has subnet 10.0.20.0/24

So Office group clients get an IP in that range

Question: 4

```
config system dhcp server
  edit 1
    set ntp-service local
    set default-gateway 169.254.1.1
    set netmask 255.255.255.0
    set interface "fortilink"
    config ip-range
      edit 1
        set start-ip 169.254.1.2
        set end-ip 169.254.1.254
      next
    end
    set vci-match enable
    set vci-string "FortiSwitch" "FortiExtender"
  next
end
```

You've configured the FortiLink interface, and the DHCP server is enabled by default. The resulting DHCP server settings are shown in the exhibit. What is the role of the vci-string setting in this configuration?

- A. To ignore DHCP requests coming from FortiSwitch and FortiExtender devices.
- B. To restrict the IP address assignment to devices that have FortiSwitch or FortiExtender as their hostname.
- C. To connect, devices must match the VCI string; otherwise, they will not receive an IP address.
- D. To reserve IP addresses for FortiSwitch and FortiExtender devices.

Answer: C

Explanation:

The DHCP configuration shows:

```
set vci-match enable
```

```
set vci-string "FortiSwitch" "FortiExtender"
```

What this means

VCI = Vendor Class Identifier (DHCP option 60)

When vci-match is enabled, the DHCP server will only respond to DHCP requests from clients whose VCI string matches the configured vendor identifiers.

FortiSwitch and FortiExtender both send DHCP option 60 with:

```
"FortiSwitch"
```

```
"FortiExtender"
```

This is used in FortiLink deployments so only these devices receive IP addresses on the FortiLink network.

Therefore:

C . To connect, devices must match the VCI string; otherwise, they will not receive an IP address.

✓ Correct.

This perfectly matches FortiGate FortiLink DHCP behavior.

Summary of incorrect options

A — Ignore FortiSwitch/FortiExtender

✗ Opposite behavior.

B — Restrict based on hostname

✗ VCI does NOT check hostname.

D — Reserve IPs

✗ No reservation occurs; it's filtering, not reserving.

Question: 5

Refer to the exhibits.



FortiGate interface configuration

The screenshot shows the 'Edit Interface' configuration page for 'port3'. The configuration is as follows:

- Name:** port3
- Alias:** (empty)
- Type:** Physical Interface
- VRF ID:** 0
- Role:** Undefined
- Addressing mode:** Manual (selected), DHCP, Auto-managed by IPAM
- IP/Netmask:** 10.0.1.254/255.255.255.0
- Secondary IP address:** (disabled)
- Administrative Access:**
 - IPv4:**
 - HTTPS
 - FMG-Access
 - FTM
 - Speed Test
 - HTTP
 - SSH
 - RADIUS Accounting
 - PING
 - SNMP
 - Security Fabric Connection
 - Receive LLDP:** Use VDOM Setting (selected), Enable, Disable
 - Transmit LLDP:** Use VDOM Setting (selected), Enable, Disable
- DHCP Server:** (disabled)
- Network:**
 - Device detection:** (disabled)
 - Security mode:** (disabled)

Examine the FortiGate RSSO configuration shown in the exhibit.

FortiGate is set up to use RSSO for user authentication. It is currently receiving RADIUS accounting messages through port3. The incoming RADIUS accounting messages contain the username in the User-Name attribute and group membership in the Class attribute. You must ensure that the users are authenticated through these RADIUS accounting messages and accurately mapped to their respective RSSO user groups.

Which three critical configurations must you implement on the FortiGate device? (Choose three.)

- A. The RADIUS Attribute Value setting configured for an RSO user group should match the class RADIUS attribute value in the RADIUS accounting message.
- B. RSO user groups should be assigned to all firewall policies.
- C. Device detection and Security Fabric Connection should be enabled on port3
- D. The sso-attribute CLI setting in the RSO agent configuration should be set to Class.
- E. The rso-endpoint-attribute CLI setting in the RSO agent configuration should be set to User-Name.

Answer: A,D,E

Explanation:

The problem states:

FortiGate receives RADIUS accounting messages on port3.

User-Name attribute contains the username.

Class attribute contains the group membership.

Goal: authenticate users through RSO and map them to the correct user groups.

To achieve this, three critical components must be configured:

✓ A. RADIUS Attribute Value in the RSO group must match the Class attribute

This is mandatory because:

RSO user groups on FortiGate match users based on the value inside the RADIUS attribute (usually Class).

For group assignment to work, FortiGate must compare:

RSO User Group → RADIUS Class Attribute Value

This is exactly how FortiGate maps RSO users to groups.

✓ D. RSO agent's sso-attribute must be set to Class

This sso-attribute defines which RADIUS attribute contains the group information.

Because group membership is carried in:

➔ Class attribute

You must configure:

```
config user radius
```

```
set sso-attribute Class
```

```
end
```

This tells FortiGate:

"Use the Class attribute to derive user group membership."

✓ E. rso-endpoint-attribute must be set to User-Name

This identifies which RADIUS attribute carries the actual username.

In this scenario:

RADIUS accounting messages contain the username in User-Name.

So the correct setting is:

```
config user radius
```

```
set rso-endpoint-attribute User-Name
```

```
end
```

This ensures the RSO user object uses the correct username.

✗ Incorrect Options Explained

B . Assign RSO user groups to all firewall policies

Not required.

You only assign them to policies where RSO authentication is used.

C . Device detection and Security Fabric Connection should be enabled on port3

Totally irrelevant to RSSO.

RSSO only needs RADIUS accounting, not device detection or Fabric services.

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