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FORTINET CERTIFIED EXPERT CYBERSECURITY

###  **Fortinet Certified Expert Cybersecurity**

### **(NSE8 – PRACTICAL LAB EXAM)**

# Lab Workbook Policy

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13. This policy is in effect from 23 November 2016 and in immediate effect for new clients and new renewals. Old clients will continue with the old Policies until the accounts get expired.
14. If there is any update, one will receive the update automatically on their registered email id.
15. For any future update you can check our 'updates' page.
16. Labs are always published in phases. For e.g. if there is a new lab we publish it as First, Second, Third ... till Final release.
17. Client who have purchased our worbooks and services and wishes to attempt the lab, need to consult our experts before their CCIE Lab.

**-Exam Start**

You're working at a company providing consultancy services for security and networking infrastructure with a strong focus on Fortinet products. Today you're at one of your customers that requested your help.

They recently hired a contractor to implement several Fortinet products. The base configuration was completed and all devices are accessible and manageable from a management station. However, the configuration that was initially requested was never completed and several functionalities and objectives still need to be implemented.

It is now your job to complete the configuration. To help you get started, the customer has provided a list of tasks for you to complete.

**Exam Instructions:**

This GUI will provide you with all the information needed to complete your exam tasks.

• The topbar includes a number of tools to help you get the best personal experience during the exam and provide you with access to the lab credentials and RDP session:



• The left menu lists the tasks (toggling is possible using the hamburger icon (=) at the top). When you've selected a task the task description will show and you can:

* Click on the Topology bar to show/hide the topology related to the task.
* Open the notes section using the hamburger menu (=) on the right to record your task notes.
* Mark tasks as 'completed' or 'needs review' using the check and flag buttons next to the topology bar.

The Out-Of-Band network (192.168.8.0/24) is only there to allow easy access to your devices.

**Never use this network to establish any form of connectivity between VMs unless specifically mentioned in the task description!**

In case you need IP addresses to establish communications, the IP block **172.254.0.0/16** is reserved for you as the test-taker to be used freely throughout the topology.

**Note**: Licensing inside this environment is setup using a closed network approach. The local FDS service runs on the OOB network on IPs 192.168.8.241-192.168.8.243. Don't change these settings to prevent license validation checks to fail during your session.

**Important reminders:**

• **Console Access**: When using the console bookmarks, ***press enter*** to receive the prompt.

• **RDP Session Screen Resolution**: Refresh the RDP session using the RDP top toolbar if the resolution is not full screen.

• **FortiGate Revisions**: To restore the initial configuration of a FortiGate use the following commands:

**execute revision list config**

**execute restore config flash <revision\_id>**

Good luck on your exam and manage your time wisely!

1. **Multi – Tenant FGCP**

**Topology**



**High Availability and Clustering**

1. **Multi-Tenant FGCP**

Your client has two FortiGate devices (**FG104/FG105**) that need to be configured for High Availability with FGCP, where large amounts of sessions are expected to be synchronized. Configure the cluster following the requirements below:

a. The data center switches used have a known conflict with FortiGate HA operation (cluster formation and config sync). Adjust the default configuration to handle this known conflict.

b. Cluster settings must match the values in the table:

|  |  |
| --- | --- |
| Cluster name | CL2 |
| Cluster password | Nse8pass |
| Cluster Heartbeat on interface | Port9 |

c. **FG104** must always be primary even if **FG105** has been up longer.

d. The cluster configuration **must** ensure that the virtual MAC address of each interface is unique and will not interfere with other Clusters that are configured in its default state.

e. Configure the cluster so that a large amount of session synchronization **does not** affect the **heartbeat** connection and provides **redundancy**.

f. If **port1** or **port2** goes down or if pings from port1 to 100.88.8.8 fails, the cluster must

 failover to **FG105**.

g. Once CL2 is synchronized, you **must** prioritize the WAN VDOM on **FG105**

1. **BGP**

**Topology**



**Dynamic Routing**

1. **BGP**

Your Client requires you to configure BGP on **CL1** for IPv4 Internet traffic. The following requirements **must** be met:

a. IPv4 neighbors **must** handle the **IPv4** address family **only**.

b. **Only** the IPv4 default route **must** be accepted from ISP-B and ISP-A.

c. The default route for both ISP-A and ISP-B **must** be simultaneously **active** in the routing table.

d. You **must only** advertise a **single** IPv4 summary route, **100.105.0.0/16**, covering the

local interfaces (port4, loop1, and loop2). You **are not permitted** to use redistribute and route-map, or disable network-import-check in the BGP config to advertise the summary route.

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