# **Exercise 7: Quarantining the Compromised Host**

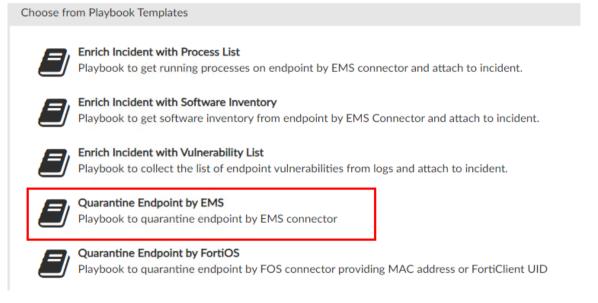
In this exercise, you will quarantine the compromised Windows client VM that was used to gain initial access to the network.

#### **Quarantine the Compromised Host**

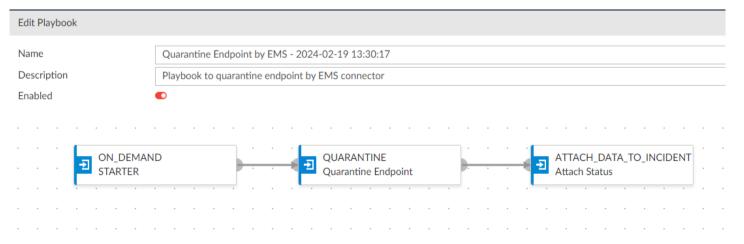
You will configure playbooks to use FortiClient EMS to get endpoint information about the host, and use that information to quarantine the compromised host by running a second playbook.

To configure a playbook to quarantine an infected endpoint

- 1. Log in to the FAZ-SiteB GUI (10.200.4.238) with the following credentials:
- Username: admin
- · Password: Fortinet1!
- 2. Click Fabric View.
- 3. Click Automation.
- 4. Click the Playbook tab.
- 5. Click Create New.
- 6. Select Quarantine Endpoint by EMS.

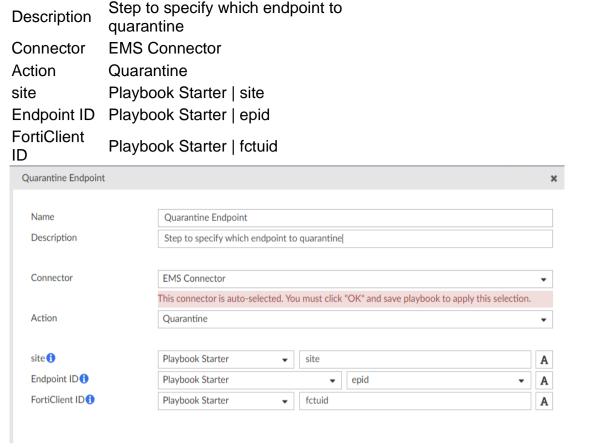


The playbook is automatically created with the required steps.



- 7. In the **Name** field, type Quarantine Endpoint by EMS.
- 8. Hover over the **Quarantine Endpoint** step, and then click the  $\square$  icon to edit it.
- Configure the following settings:

Field Value
Name Quarantine Endpoint

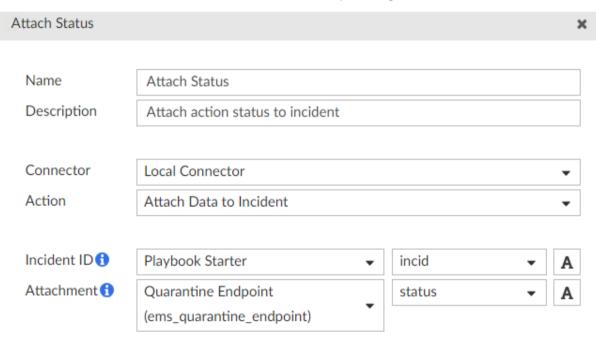


Value

10. Click **OK**.

**Field** 

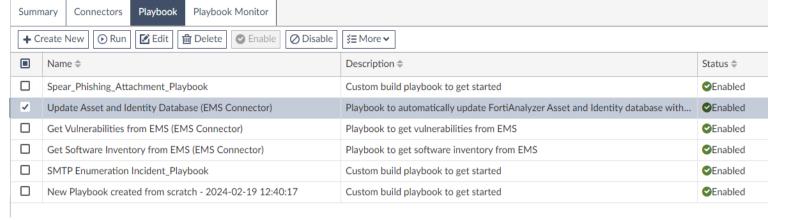
- 11. Hover over the **Attach Status** step, and then click the  $\square$  icon to edit it.
- 12. Confirm that the **Attach Status** step configuration matches the following image:



- 13. Click **OK**.
- 14. Click **Save Playbook**.

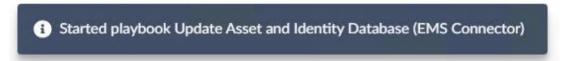
### To configure and run a playbook to retrieve asset information

- Continuing on the FAZ-SiteB GUI, click Fabric View > Automation > Playbook.
- 2. Select the checkbox for the **Update Asset and Identity Database** playbook.

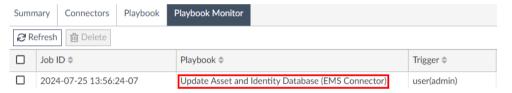


- 3. Click Run.
- 4. Click OK.

A confirmation that the playbook started should appear.



- 5. Click Playbook Monitor.
- 6. Confirm that the playbook ran successfully.



- 7. Click Fabric View > Asset Identity Center.
- 8. Click the **Asset Identity List** tab.

The **Asset Identity List** tab provides a list of all the assets that are currently connected in the Security Fabric and all third-party devices that are sending logs to FortiAnalyzer directly.

By running the **Update Asset and Identity Database** playbook, FortiAnalyzer used the FortiClient EMS connector to retrieve a list of all the FortiClient endpoints that the FortiClient EMS is provisioning and managing.



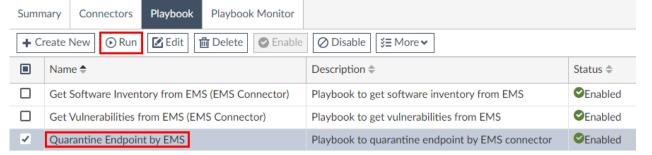
In the previous exercises, you noted that the WIN-CLIENT VM is being targeted during the persistence and evasion part of the attack. You will quarantine this compromised host.

9. Make a note of the FortiClient UUID of the WIN-CLIENT VM.



## To quarantine the infected host

- 1. Continuing on the FAZ-SiteB GUI, click **Fabric View > Automation > Playbook**.
- 2. Select the checkbox for Quarantine Endpoint by EMS.
- 3. Click Run.



## The Manually Run Playbook Quarantine Endpoint by EMS window opens.

4. Configure the following settings:

Field Value

Endpoin t WIN-CLIENT (1034)

site default fctuid 66BE205CCA864B23B55E40C61350DE99 IN00000002

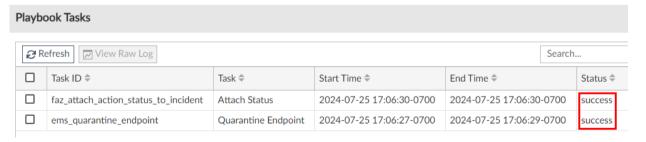
incid (Your incident ID may differ. Type the incident number that the

Spear\_Phishing\_Attachment\_Playbook created).

Manually Run Playbook Quarantine Endpoint by EMS



- 5. Click OK.
- 6. Click Playbook Monitor.
- 7. Click the Quarantine Endpoint by EMS playbook.
- 8. Confirm that both tasks ran successfully.



9. Close the **Playbook Tasks** window.

Confirm Endpoint Quarantine

You will confirm that the Windows-Client VM is guarantined.

#### To confirm endpoint quarantine

1. On the bastion host, on the desktop, double-click the Windows-Client RDP shortcut (**Windows-Client.rdp**).

The connection attempt will fail.

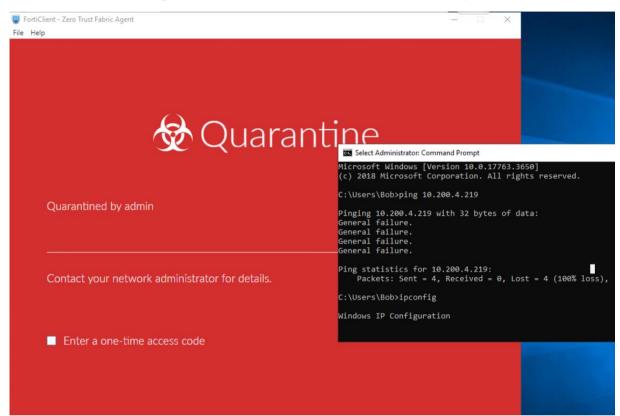
#### Stop and think!

Why is the RDP connection failing?

FortiClient EMS has locked down the compromised client, which prevents it from accessing the network.

Using an ESXi console connection, you can see the quarantined status of the client VM. The steps are not shown. The image below is for demonstrating what you would see *if* you logged in to the console.

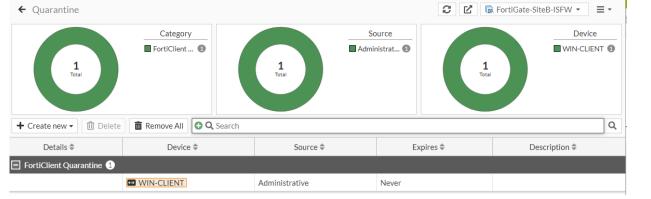
You do not need to log in to the console. Proceed to the next step.



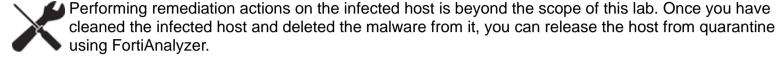
- 2. Return to the bastion host, and then in Chrome, log in to the FortiGate-SiteB-Edge (10.200.4.249) GUI with the following credentials:
- Username: admin
- · Password: Fortinet1!
- 3. Click Dashboard.
- 4. Click Assets & Identities.
- 5. In the FortiGate-SiteB-Edge drop-down list, select FortiGate-SiteB-ISFW.



- 6. Click the Quarantine widget.
- 7. Notice the quarantined host and the user that performed this action.



Now that the host has been quarantined, the adversary Group ABC cannot perform any further actions on the infected host, such as lateral movement across the network to infect or compromise a critical server.



Release the VM From Quarantine

You will run a second playbook on FAZ-SiteB to release the host from guarantine.

# To configure the playbook to release the host from quarantine

- 1. Return to the FAZ-SiteB GUI, and then click **Fabric View > Automation > Playbook**.
- 2. Click Create New.

**Field** 

Name

Connector Action

- 3. In the Choose from Playbook Templates section, select Unquarantine Endpoint EMS.
- 4. In the **Name** field, type Unquarantine Endpoint by EMS.
- 5. Edit the **Unquarantine Endpoint** step.

Value

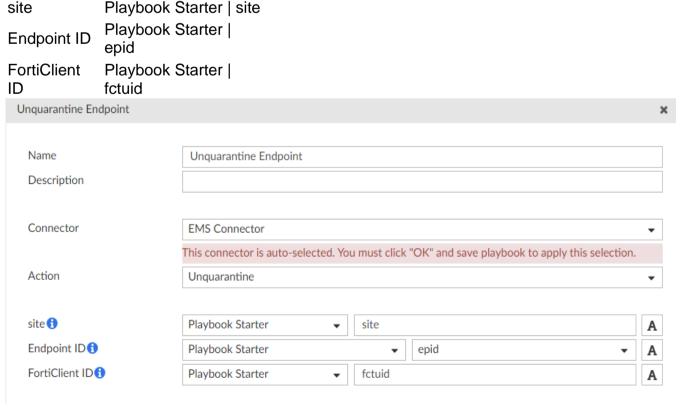
6. Configure the following settings:

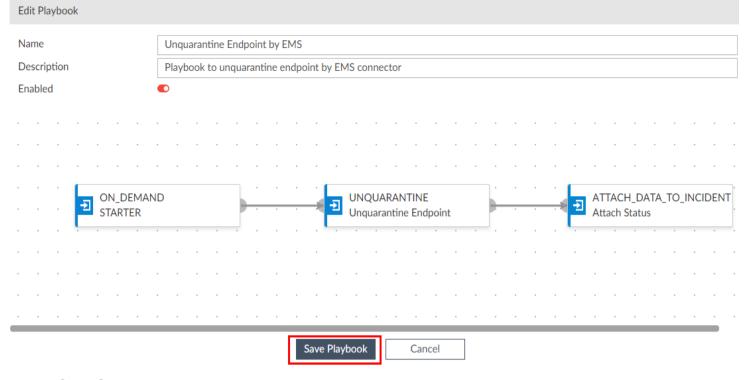
Unquarantine

Unquarantine

**EMS Connector** 

**Endpoint** 





- 8. Click **Save Playbook**.
- 9. Select Unquarantine Endpoint by EMS playbook.
- 10. Click Run.

The Manually Run Playbook Unquarantine Endpoint by EMS window opens.

11. Configure the settings:

Field Value

Endpoin WIN-CLIENT (1034)

fctuid 66BE205CCA864B23B55E40C61350DE99

site default

IN0000002

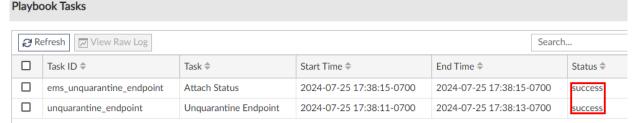
incid (Your incident ID may differ. Type the incident number that the

Spear\_Phishing\_Attachment\_Playbook created).

# Manually Run Playbook Unquarantine Endpoint by EMS



- 12. Click **OK**.
- 13. Click Playbook Monitor.
- 14. Click Unquarantine Endpoint by EMS.
- 15. Confirm that the playbook tasks ran successfully.



16. Close the **Playbook Tasks** window.

# To confirm that the host was released from quarantine

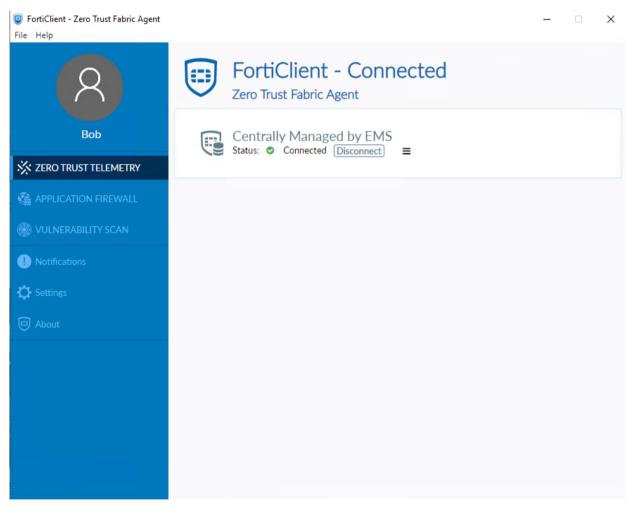
- 1. On the bastion host, on the desktop, double-click the Windows-Client RDP shortcut (**Windows-Client.rdp**).
- 2. Log in with the following credentials:

· Username: bob

· Password: Passw0rd

3. Open the FortiClient console, and then verify that the host is released from quarantine.

You should see that the FortiClient console has returned to its original state and is not red (quarantine).



LAB-CHALLENGE > Quarantining the Compromised Host