

IBM Storage Defender Extension for QRadar

QRadar Extension User Guide



Note:

Before you use this information and the product it supports, read the information in [“Notices” on page 19.](#)

October 2024 edition

This edition applies to IBM Storage Defender Data Management Service and to all subsequent releases and modifications until otherwise indicated in new editions:

- IBM Storage Defender ordered through Passport Advantage® (product number 5900-AXW)
- IBM Storage Defender Data Management Service ordered through AAS (product number 5900-AY6)

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About this publication

This publication provides overview, planning, installation, and user instructions for IBM Storage Defender Data Resiliency Service.

Chapter 1. Prerequisites

Verify that your environment meets the following requirements:

- The on-prem QRadar platform is running on IBM Security QRadar 7.5.0 or later version.
- You must have a master administrator account on the QRadar platform.
- Download the IBM Storage Defender Event Extension from the IBM Security App Exchange.

Chapter 2. Installing QRadar extension

About this task

Download the IBM Storage Defender Event Extension from the IBM Security App Exchange. Refer to the following steps to install the QRadar extension for IBM Storage Defender events.

Procedure

1. Login to the QRadar console with master administrator privilege.
2. Go to the **Admin** tab in the navigation menu, click **Extension Management**.

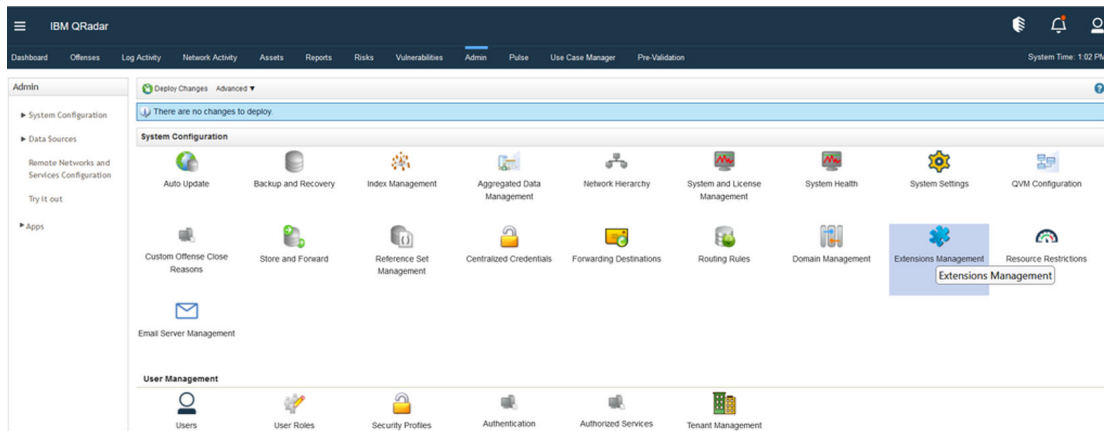


Figure 1. Displaying QRadar console

3. Upload and install extension.
 - a) On the **Extension Management** screen, click **Add**.
 - b) Click **Browse** in the **Add a New Extension** dialog box.
 - c) Browse the IBM Storage Defender Event Extension file.
 - d) Check the **Install immediately** checkbox to install the extension after uploading it.
 - e) Click **Add**.

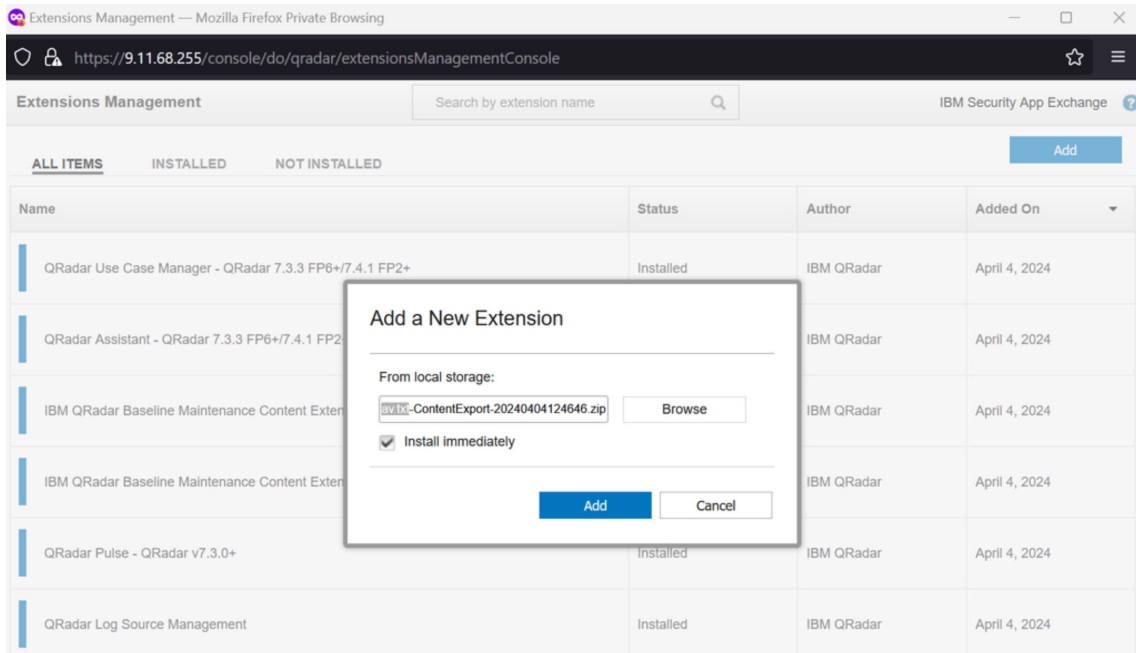


Figure 2. Adding extension

Installation of the extension is in progress.

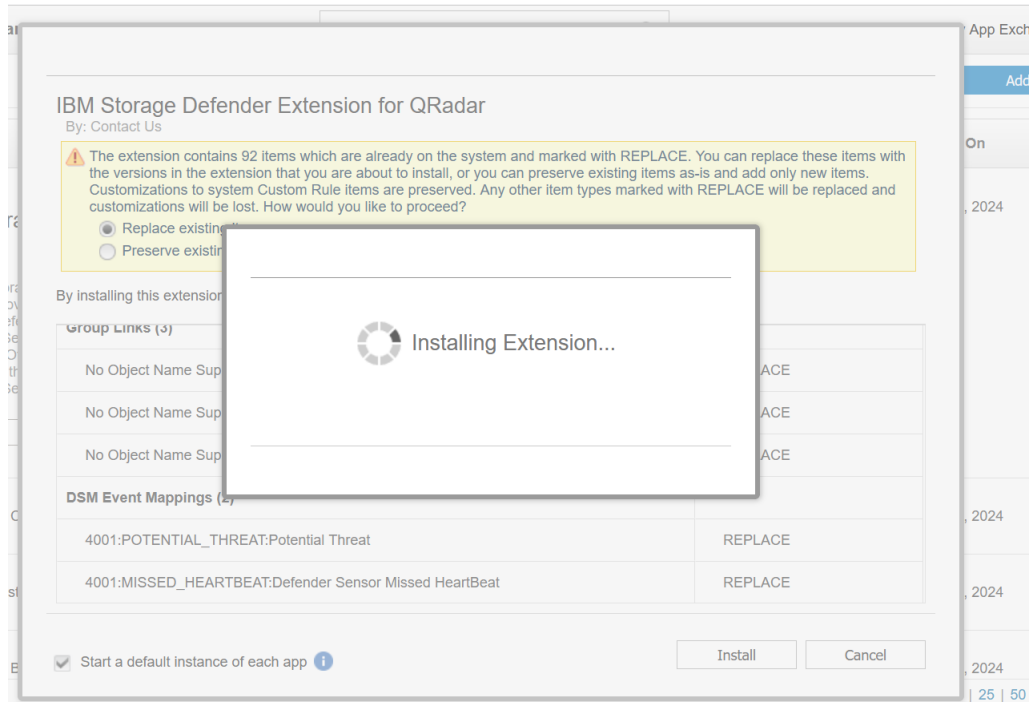


Figure 3. Installing an extension

You can see that the following content is exported to QRadar.

IBM Storage Defender Extension for QRadar

By: Contact Us

The extension has been installed successfully. Please review the install summary:

Custom Extraction Properties (3)	
Application Name	REPLACE
Status	ADD
Product Version	ADD
QID Records (2)	
Missed HeartBeat	ADD
Potential Threat	ADD
Log Source Types (1)	
IBM Storage Defender Events	ADD
Log Source Extensions (1)	

OK

Figure 4. Exporting content to QRadar

Name	Status	Author	Added On
<div style="border: 1px dashed gray; padding: 5px;"> <p>IBM Storage Defender Extension for QRadar</p> <p>## IBM Storage Defender Extension for QRadar The IBM Storage Defender Extension for QRadar provides Log Source Type, rules, offenses, and properties for events sent by the IBM Storage Defender service. ## Use Cases Covered - **Event for Potential Threat Detected by Defender Sensor on a VM**: Detects potential threats on a VM and logs the event. - **Rule to Create an Offense for a Potential Threat Event**: Automates the creation of an offense when a potential threat event is detected. - **Missed Heartbeat Event**: Logs an event when a sensor is unresponsive or has stopped working on a VM.</p> <p style="text-align: right;">(More Details...)</p> </div>	Installed	Contact Us	May 27, 2024

Figure 5. IBM Storage Extension for QRadar

After successful installation, the **Defender Events** extension is shown under the **INSTALLED** tab on the **Extension Management** screen.

Name	Status	Author	Added On
<div style="border: 1px solid gray; padding: 10px;"> <p>IBM Storage Defender Extension for QRadar</p> <p>## IBM Storage Defender Extension for QRadar The IBM Storage Defender Extension for QRadar provides Log Source Type, rules, offenses, and properties for events sent by the IBM Storage Defender service. ## Use Cases Covered - **Event for Potential Threat Detected by Defender Sensor on a VM**: Detects potential threats on a VM and logs the event. - **Rule to Create an Offense for a Potential Threat Event**: Automates the creation of an offense when a potential threat event is detected. - **Missed Heartbeat Event**: Logs an event when a sensor is unresponsive or has stopped working on a VM.</p> <p>Uninstall</p> <p>Contents:</p> <ul style="list-style-type: none"> ▶ Custom Rules (2) ▶ Offense Types (1) ▶ Custom Extraction Properties (3) ▶ CEF Expressions (3) ▶ Group Links (3) ▶ Groups (2) ▶ Group Types (1) ▶ Log Source Extensions (1) ▶ Log Source Categories (1) ▶ Log Source/Protocol Mappings (75) ▶ Protocol Configuration Types (73) ▶ Protocol Configurations (2) ▶ Protocol Configuration Parameters (2) ▶ Log Source Types (1) <p>Installed By: admin</p> <p>Installed Date: May 27, 2024</p> <p>Version: 1.0.0</p> <p>Supported Languages: en_US</p> <p>Signed: Signed, not validated</p> <p>Support: Contact the extension's author (https://www.ibm.com/myssupport/sr?language=en_US)</p> </div>	Installed	Contact Us	May 27, 2024

Figure 6. Showing installed content

Chapter 3. Configuring log sources

About this task

Install the QRadar Log Source Management app on your QRadar console. For more information, see [Installing the QRadar Log Source Management app](#). Refer to the following steps to configure log sources for IBM Storage Defender events.

Procedure

1. Open the **QRadar Log Source Management** app from the QRadar console.

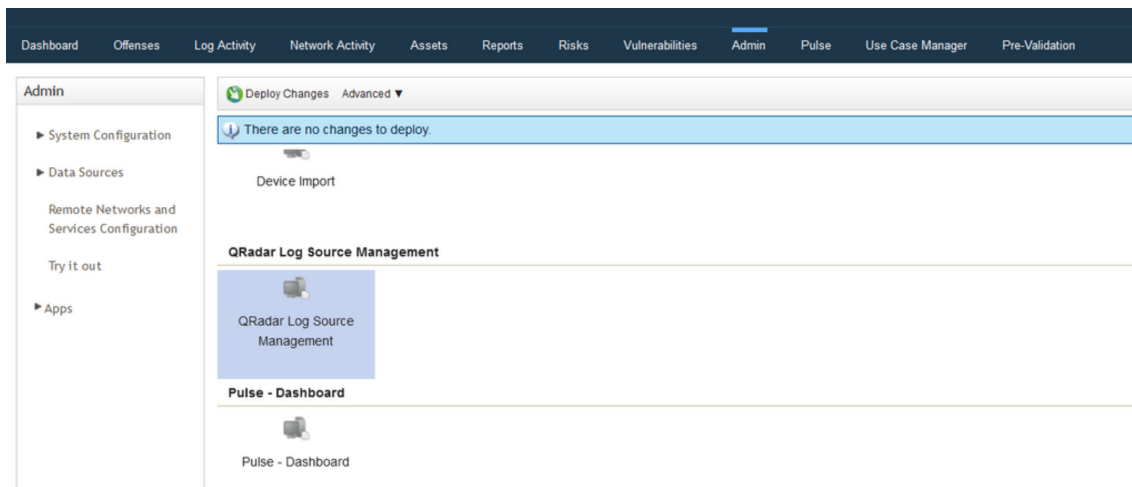


Figure 7. Displaying QRadar console

2. On **QRadar Log Source Management** window, click **Log Sources**.

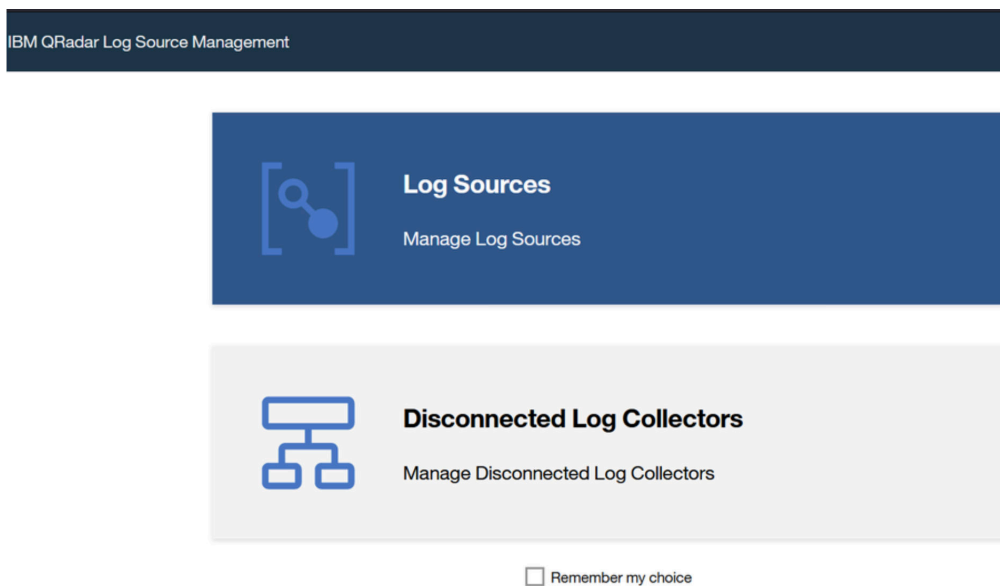


Figure 8. Selecting log source

3. On **QRadar Log Source Management** window, click **+ New Log Source**.

ID	Name	Log Source Type	Creation Date	Last Event	Enabled
66	Anomaly Detection Engine-2 :: defenderqradar1	Anomaly Detection Engine	Jun 1, 2024 4:31 AM (IST)		On
67	Asset Profiler-2 :: defenderqradar1	Asset Profiler	Jun 1, 2024 4:31 AM (IST)		On
212	CM - defenderagent14	IBM Storage Defender Events	Jun 20, 2024 3:43 AM (IST)	Jun 22, 2024 2:31 AM (IST)	On
314	CM - poohbear3	IBM Storage Defender Events	Sep 18, 2024 4:02 AM (IST)		On
63	Custom Rule Engine-8 :: defenderqradar1	Custom Rule Engine	Jun 1, 2024 4:31 AM (IST)		On
		IBM Storage Defender	Tue 27 2024 12:16 AM		On

Figure 9. New log source

On the following selection screen, click **Single Log Source**.

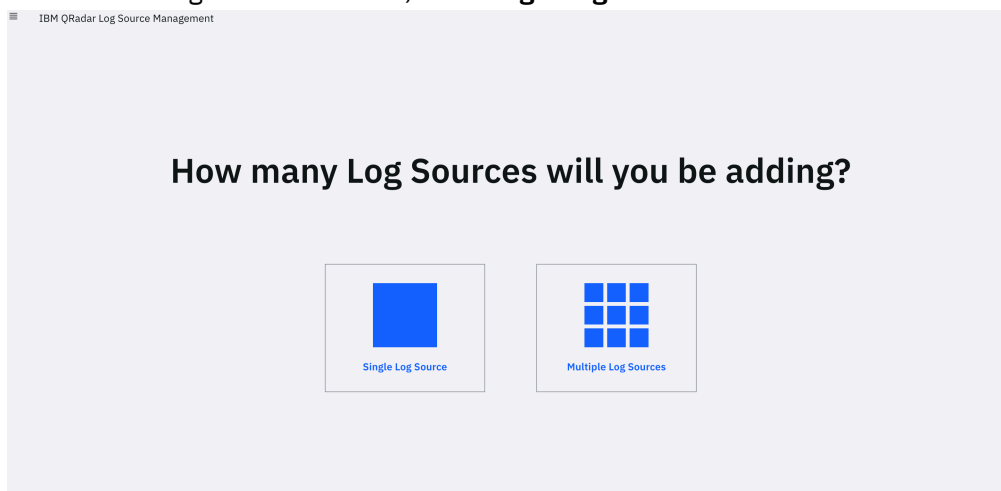


Figure 10. Single Log Source

- On the **Select a Log Source type** screen, select **IBM Storage Defender events** and then, click **Select Protocol Type**.

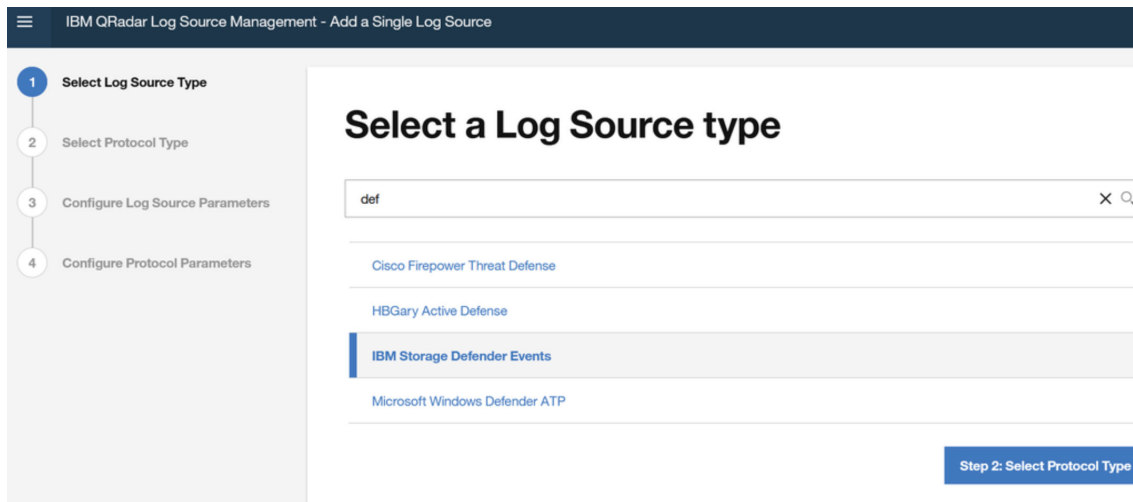


Figure 11. Selecting log source type

- On the **Select a protocol type** screen, select **Syslog** protocol and then, click **Configure Log Source Parameters**.

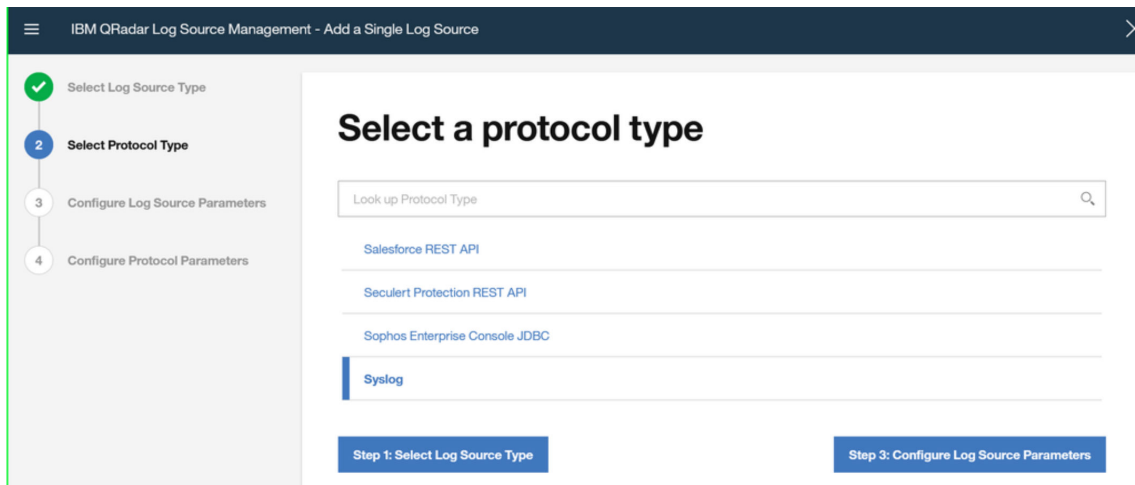


Figure 12. Selecting a protocol type

6. On the **Configure the Log Source parameters** screen, enter the **Name** and **Extension** log source parameters as:

- **Name:** Specifies the name of the Log Source to be created (for example, Defender Connection Manager). You can also add a custom description for the log source.
- **Extension:** Select extension as **IBMStorageDefenderEventsCustom_ext**.

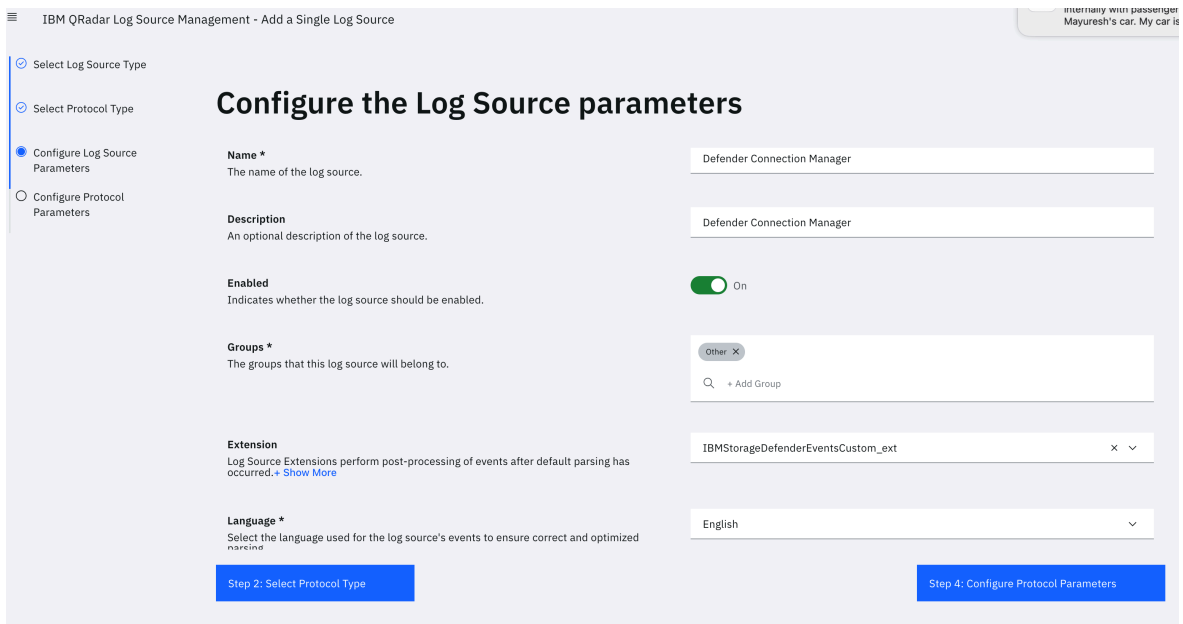


Figure 13. Configuring the Log Source parameters

Scroll-down the page and verify that the **Coalescing Events** toggle option is not enabled to avoid grouping of the events based on source and destination IP addresses. Click **Configure Protocol Parameters** to proceed.

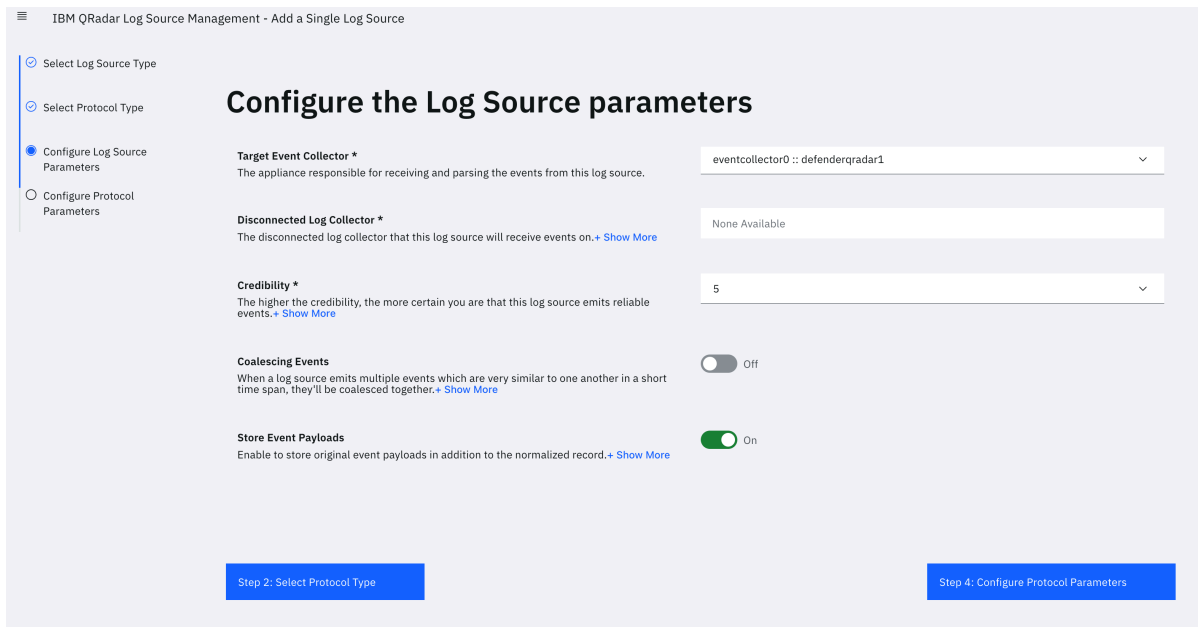
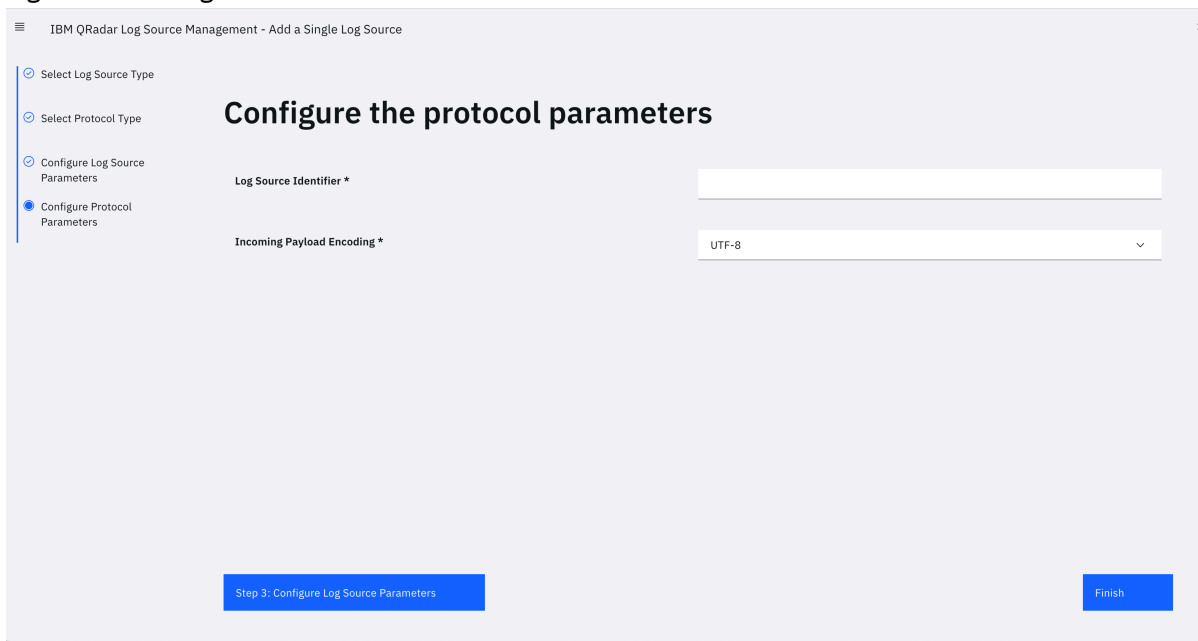


Figure 14. Disabling Coalescing Events

- On **Configure the protocol parameters** screen, enter the IP address of IBM Storage Defender Connection Manager in the **Log Source Identifier*** field and click **Finish**. For more information, see [IBM Storage Defender Connection Manager](#).

Figure 15. Adding IP address



After clicking the **Finish** button, the system redirects you to the **QRadar Log Source Management** window, where you can see the added log source.

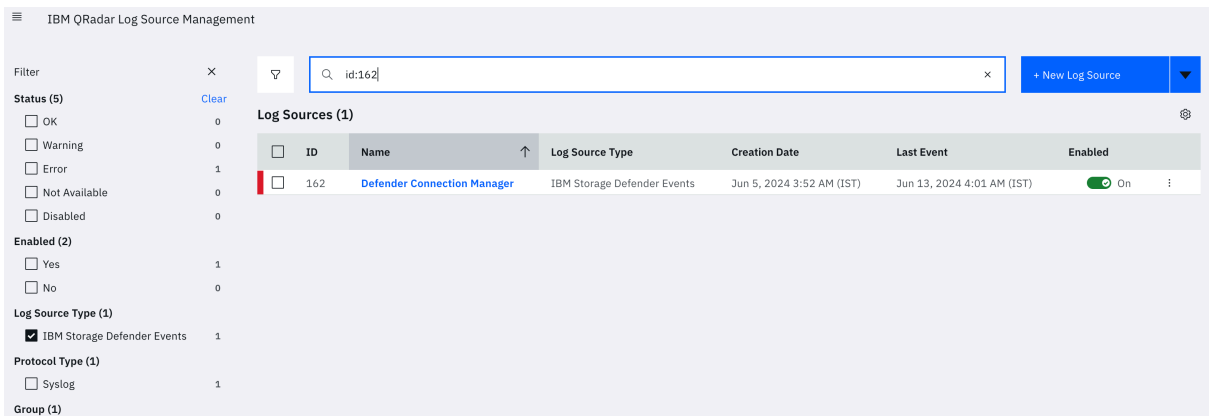


Figure 16. Displaying added log source

- To deploy the changes, go to the **Admin** tab and then, click the **Deploy Changes** button on the console.

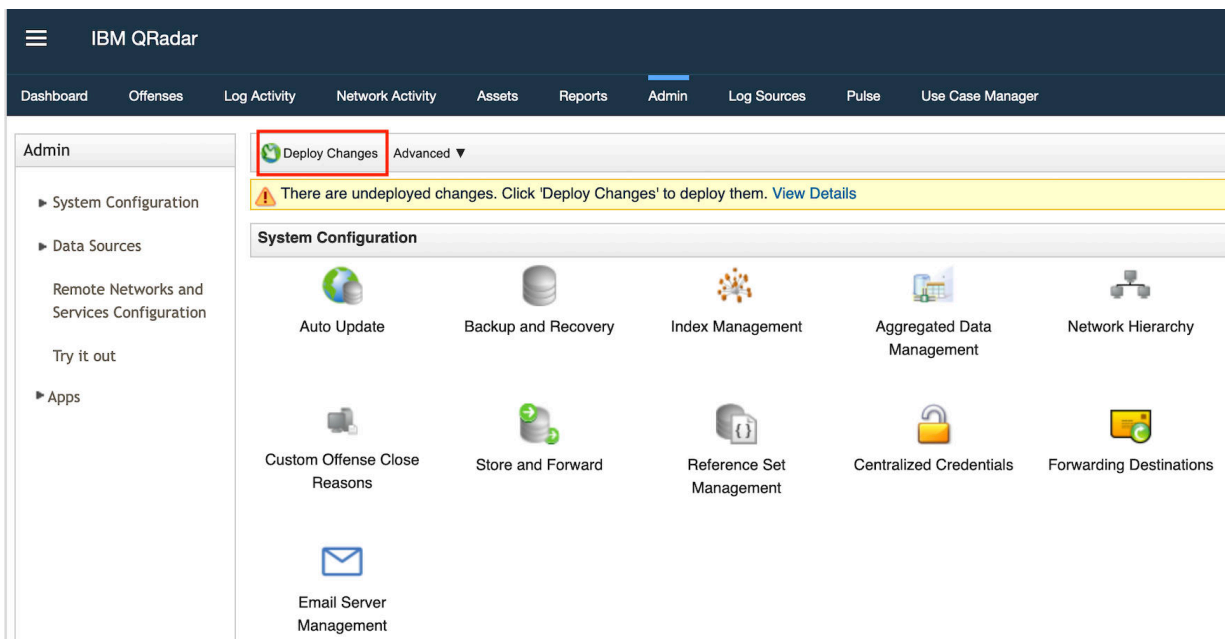


Figure 17. Deploying changes

- After the changes are deployed, go to **Log Activity** tab, and then click **Add filter** in the menu bar.

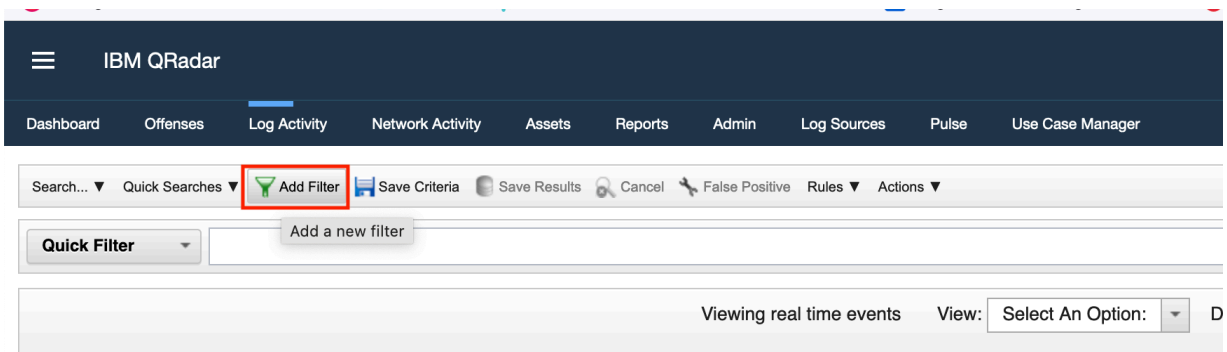


Figure 18. Adding filter for log source

Select the log source that is created in the [Step 6](#). After selecting the log source, click the **Add Filter** button.

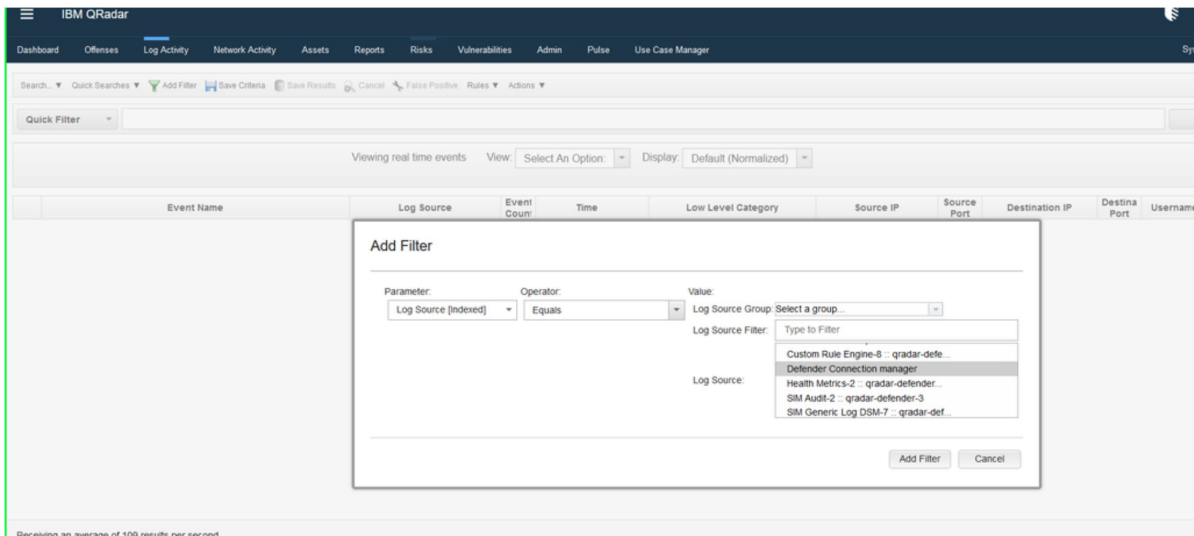


Figure 19. Selecting the log source

After clicking the **Add Filter** button, the system redirects you to the **Log Activity** tab, where you can see the event logs.

Note: The national flag icons in the Source IP column represents the QRadar installed region.

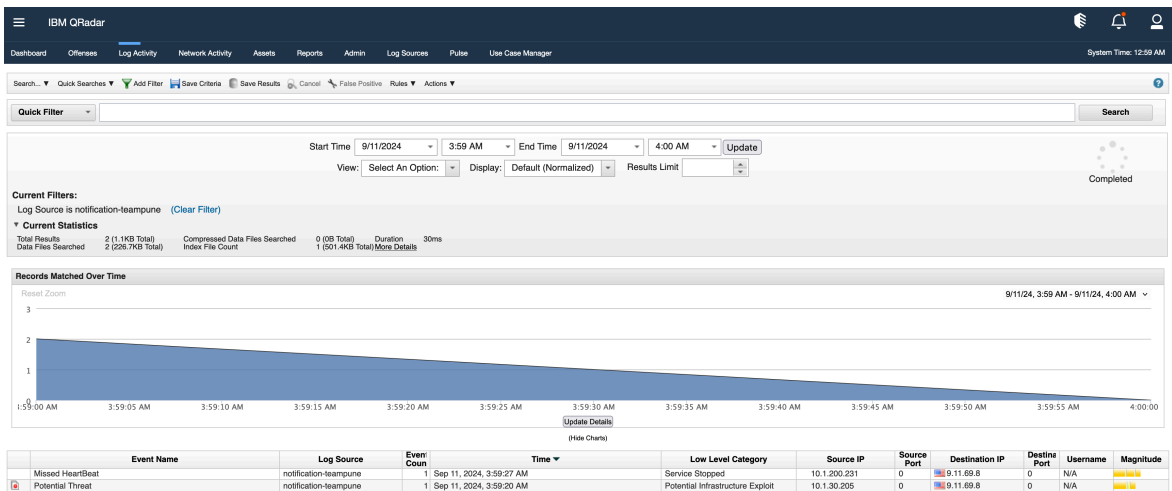


Figure 20. Displaying event logs

The following table describes the custom properties from IBM Storage Defender events.

Sample Event Information	Description	Samples in Figure 20
Event name	Name of IBM Storage Defender event	Missed HeartBeat Potential Threat
Log source	This is the Log source added in Chapter 3, “Configuring log sources,” on page 7. In this case the log source is the Connection Manager of IBM Storage Defender.	mp-defender-monday

Sample Event Information	Description	Samples in Figure 20
Low-level event categories	To know more about Low-level event categories, see Event mapping .	Service Stopped Potential infrastructure exploit
Source IP	IP address of the virtual machine for which IBM Storage Defender event is generated	9.11.69.102
Destination IP	Connection Manager IP address	9.11.69.22
Magnitude	QRadar specific rating that measures the importance of an offense and helps determine which offenses to investigate first. The magnitude rating is calculated based on multiple factors. For more information, see Offense prioritization .	See the Magnitude bar in Figure 20

- To see the event information for the potential threat from the **Log Activity** tab, in the **Event Name** column, click **Potential Threat**.

The screenshot displays the IBM QRadar interface. At the top, there is a navigation bar with tabs for Dashboard, Offenses, Log Activity (selected), Network Activity, Assets, Reports, Admin, Log Sources, Pulse, and Use Case Manager. Below the navigation bar, there are several utility icons like 'Return to Event List', 'Offense', 'Map Event', 'False Positive', 'Extract Property', 'Previous', 'Next', 'Print', and 'Obfuscation'. The main content area is titled 'Event Information' and contains a table with the following data:

Event Name	Potential Threat		
Low Level Category	Potential Infrastructure Exploit		
Event Description	IBM Storage Defender Sensor running on the VM has detected a Potential Threat		
Magnitude	(4)	Relevance	6
Severity	1	Credibility	5
Username	N/A		
Start Time	Sep 11, 2024, 3:59:20 AM	Storage Time	Sep 11, 2024, 3:59:20 AM
Log Source Time	Sep 11, 2024, 3:59:20 AM		
Application Name (custom)	mp-nilesh-playback-notification-app		
Product Version (custom)	2.0.8		
Status (custom)	open		
Domain	Default Domain		

Below the 'Event Information' section is the 'Source and Destination Information' section, which contains a table with the following data:

Source IP	10.1.30.205	Destination IP	9.11.69.8
Source Asset Name	N/A	Destination Asset Name	N/A
Source Port	0	Destination Port	0
Pre NAT Source IP		Pre NAT Destination IP	
Pre NAT Source Port	0	Pre NAT Destination Port	0
Post NAT Source IP		Post NAT Destination IP	
Post NAT Source Port	0	Post NAT Destination Port	0
Source IPv6	0:0:0:0:0:0:0:0	Destination IPv6	0:0:0:0:0:0:0:0
Source MAC	00:00:00:00:00:00	Destination MAC	00:00:00:00:00:00

At the bottom, there is a 'Payload Information' section with a text area showing the following payload:

```
<14>CEF:0|IBM|Defender|2.0.8|POTENTIAL_THREAT|Potential Threat|4|src=10.1.30.205 dvc=pune-defender-drone-4-003 externalId=19c04185-5239-418b-a853-e376676f9ca3 cs1=mp-nilesh-playback-notification-app cs1Label=applicationName cs2=open cs2Label=status cs3=May 28, 2024, 09:42:43 AM Z cs3Label=ctime
```

Figure 21. Displaying event information for potential threat

- To see the event information for the missed heartbeat from the **Log Activity** tab, in the **Event Name** column, click **Missed Heartbeat**.

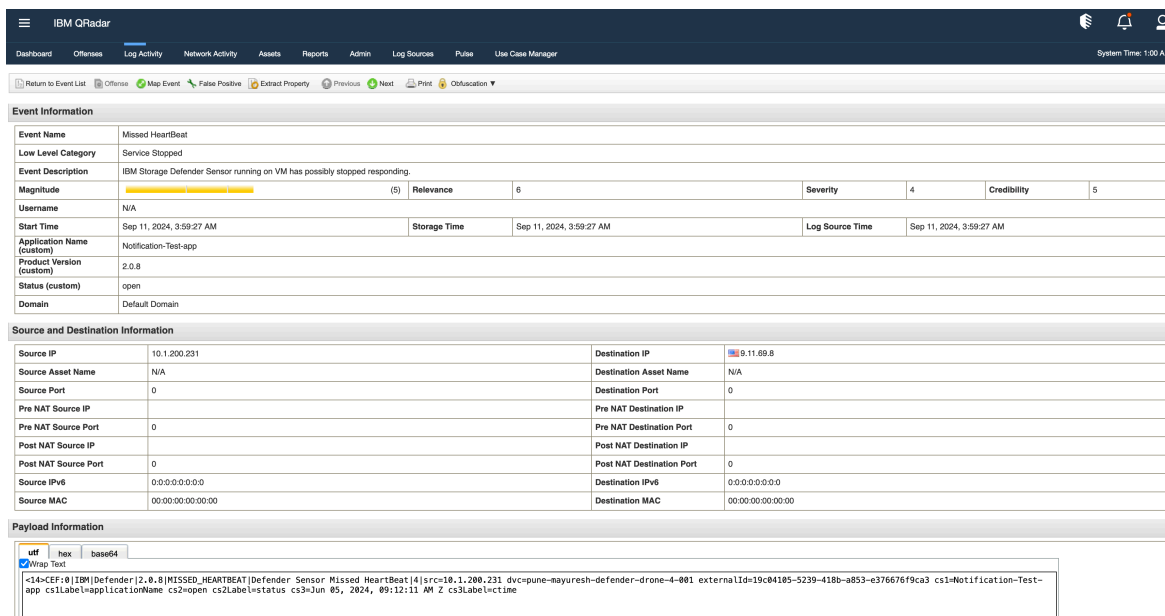


Figure 22. Displaying event information for missed heartbeat

The following table describes the custom properties from Potential Threat and Missed HeartBeat events.

QRadar Property Field	Description	Samples in Figure 21 and Figure 22
Event name	Name of IBM Storage Defender event	Missed HeartBeat Potential Threat
Low-level event categories	To know more about Low-level event categories, see Event mapping .	Service Stopped Potential infrastructure exploit
Source IP	IP address of the virtual machine for which IBM Storage Defender event is generated	9.11.69.102
Destination IP	Connection Manager IP address	9.11.69.22
Magnitude	QRadar specific rating that measures the importance of an offense and helps determine which offenses to investigate first. The magnitude rating is calculated based on multiple factors. For more information, see Offense prioritization .	See the Magnitude bar in Figure 21 and 22
Event description	Event description	IBM Storage Defender Sensor running on a virtual machine has possibly stopped responding IBM Storage Defender sensor running on the VM has detected a Potential Threat

QRadar Property Field	Description	Samples in Figure 21 and Figure 22
Application name	Name of the recovery group for which the IBM Storage Defender event is triggered	MP test UG-travelapp-2
Product Version (custom)	Version of IBM Storage Defender	2.0.5
Status (custom)	Case status of the event.	Open
DVC	Hostname or FQDN of the machine from where IBM Storage Defender event is generated. Note: Visible in the Payload information	dvc=sppod04- vm97.storage.tucson.ibm.com

Note: When a virtual machine does not have an IP address associated, then the source IP address of event in QRadar is assigned to the Connection Manager IP address, which is added as log source. If a virtual machine does not have a hostname associated, the dvc field in the event payload maps to the Name of the virtual machine.

For more information, see [Recovery groups](#) and [Connection Manager](#).

Chapter 4. Action for IBM Storage Defender events

Actions for IBM Storage Defender events:

Action for a potential threat:

1. Login to IBM Storage Defender console.
2. On the Data Resiliency home page, click **Recovery Groups**.
3. Select the recovery group from which you received the SIEM event, click the eye symbol. For more information, see [IBM Storage Defender events](#).
4. On the **Recovery group Protection** dashboard, complete the following steps:
 - a. Select the appropriate recovery point and click **Activate recovery plan** if required.
 - b. Select the clean room profile that you want to use.
 - c. Click **Done**.
 - d. Wait for the recovery to complete.
 - e. Validate the resources are working as expected and then use the recovery point for production restore.

Action for a missed heartbeat:

1. Login to IBM Storage Defender console.
2. On the Data Resiliency home page, click **Recovery Groups**.
3. Select the recovery group from which you received the SIEM event, click the eye symbol. For more information, see [IBM Storage Defender events](#).
4. Go to **Open case** tab. View the virtual machine hostname for the **Missed heartbeat** event in the **Timeline** section.
5. Login to the virtual machine that has the missed heartbeat event, and run the following command to verify that the sensor is working properly:

```
systemctl status defender-sensor
```

A sample output of the command is shown as follows:

```
defender-sensor.service - IBM Storage Defender Sensor service
  Loaded: loaded (/usr/lib/systemd/system/defender-sensor.service; enabled; preset:
disabled)
  Active: active (running) since Wed 2024-05-15 17:42:44 MST; 3h 47min ago
    Main PID: 1326 (defender-sensor)
      Tasks: 3 (limit: 48928)
     Memory: 291.9M
        CPU: 50.419s
    CGroup: /system.slice/defender-sensor.service
            └─1326 /usr/bin/bash /usr/bin/defender-sensor
              └─1327 /opt/ibm/defender/venv/bin/python3 -m espial.monitor

May 15 17:42:44 skrill-vm7.storage.tucson.ibm.com systemd[1]: Starting IBM Storage Defender
Sensor service...
May 15 17:42:44 skrill-vm7.storage.tucson.ibm.com systemd[1]: Started IBM Storage Defender
Sensor service.
May 15 17:42:50 skrill-vm7.storage.tucson.ibm.com defender-sensor[1327]: 2024-05-15
17:42:50,098 INFO: Starting version 2.0.4-1713905626
May 15 17:42:50 skrill-vm7.storage.tucson.ibm.com defender-sensor[1327]: 2024-05-15
17:42:50,142 INFO: Config file: /etc/opt/ibm/defender/defender-sensor.conf
May 15 17:42:50 skrill-vm7.storage.tucson.ibm.com defender-sensor[1327]: 2024-05-15
17:42:50,533 INFO: Configured file systems: ['all']
May 15 17:42:50 skrill-vm7.storage.tucson.ibm.com defender-sensor[1327]: 2024-05-15
17:42:50,534 INFO: Discovered file systems: ['/', '/boot', '/boot/efi', '/data', '/home>
May 15 17:42:50 skrill-vm7.storage.tucson.ibm.com defender-sensor[1327]: 2024-05-15
17:42:50,534 INFO: File systems to monitor: ['/', '/boot', '/boot/efi', '/data', '/home>
May 15 17:42:50 skrill-vm7.storage.tucson.ibm.com defender-sensor[1327]: 2024-05-15
17:42:50,535 INFO: Monitoring file systems: ['/', '/boot', '/boot/efi', '/data', '/home>
```

```
May 15 17:42:51 skrill-vm7.storage.tucson.ibm.com defender-sensor[1327]: 2024-05-15  
17:42:51,093 INFO: Authenticating to server  
May 15 17:42:52 skrill-vm7.storage.tucson.ibm.com defender-sensor[1327]: 2024-05-15  
17:42:52,521 INFO: Initialization complete
```


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