Send audit log data to a remote syslog server

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The audit log collects data about ExtraHop system operations, broken down by component. The log stored on the system has a capacity of 10,000 entries, and entries older than 90 days are automatically removed. You can view these entries in the Administration settings, or you can send the audit log events to a syslog server for long-term storage, monitoring, and advanced analysis. All logged events are listed in the table below.

The following steps show you how to configure the ExtraHop system to send audit log data to a remote syslog server.

- 1. Log in to the Administration settings on the ExtraHop system through https://extrahop-hostname-or-IP-address>/admin.
- 2. In the Status and Diagnostics section, click Audit Log.
- 3. Click Configure Syslog Settings.
- 4. In the Destination field, type the IP address of the remote syslog server.
- 5. From the **Protocol** drop-down menu, select one of the following options:
 - TCP
 - TLS
 - UDP

This option specifies the protocol over which the information is sent to your remote syslog server.

Note: If you select TLS, the ExtraHop system must verify the syslog server identity by validating the TLS certificate of the server. You can configure the ExtraHop system to trust the certificate authority (CA) that signed the certificate of the syslog server ☑ in the Administration settings.

6. In the Port field, type the port number for your remote syslog server.

The default value is 514.

7. Click **Test Settings** to verify that your syslog settings are correct.

If the settings are correct, you should see an entry in the syslog log file on the syslog server similar to the following:

```
Jul 27 21:54:56 extrahop name="ExtraHop Test" event_id=1
```

- 8. Click Save.
- 9. Optional: Modify the format of syslog messages:

By default, syslog messages are not compliant with RFC 3164 or RFC 5424. However, you can format syslog messages to be compliant by modifying the running config.

- a) Click Admin.
- b) Click Running Config (Unsaved Changes).
- c) Click Edit Config.
- d) Add an entry under auditlog_rsyslog where the key is rfc_compliant_format and the value is either rfc5424 or rfc3164.

The auditlog_rsyslog section should look similar to the following code:

- Click Update.
- f) Click Done.
- 10. Optional: Modify the time zone referenced in syslog timestamps:

By default, syslog timestamps reference UTC time. However, you can modify timestamps to reference the ExtraHop system time by modifying the running config.

- a) Click Admin.
- b) Click Running Config (Unsaved Changes).
- c) Click Edit Config.
- d) Add an entry under auditlog_rsyslog, where the key is syslog_use_localtime and the value is true.

The auditlog_rsyslog section should look similar to the following code:

```
"syslog_port": 514,
"syslog_use_localtime": true
```

- Click Update.
- Click Done. f)

Next steps

After you confirm that your new settings are working as expected, preserve your configuration changes by saving the running configuration file.

Audit log events

The following events on an ExtraHop system generate an entry in the audit log.

Category	Event
Agreements	A EULA or POC agreement is agreed to
API	 An API key is created An API key is deleted A user is created. A user is modified.
Sensor Migration	 A sensor migration is started A sensor migration succeeded A sensor migration failed
Browser sessions	A specific browser session is deletedAll browser sessions are deleted
Cloud Services	Status of a connected sensor is retrieved
Console	 A sensor connects to a console A sensor disconnects from a console An ExtraHop recordstore or packetstore establishes a tunneled connection to a console Console information is set A console nickname is set

Category	Event
	 Enable or disable a sensor The sensor is remotely viewed A license for a sensor is checked by a console A license for a sensor is set by a console
Dashboards	 A dashboard is created A dashboard is renamed A dashboard is deleted A dashboard permalink, also known as a short code, is modified Dashboard sharing options are modified
Datastore	 The extended datastore configuration is modified The datastore is reset A datastore reset completed Customizations are saved Customizations are restored Customizations are deleted
Detections	 A detection status is updated A detection assignee is updated Detection notes are updated An external ticket is updated A tuning rule is created A tuning rule is deleted A tuning rule is modified A tuning rule description is updated A tuning rule is enabled A tuning rule is disabled A tuning rule is extended
Exception files	An exception file is deleted
ExtraHop recordstore records	All ExtraHop recordstore records are deleted
ExtraHop recordstore cluster	 A new ExtraHop recordstore node is initialized A node is added to an ExtraHop recordstore cluster A node is removed from an ExtraHop recordstore cluster A node joins an ExtraHop recordstore cluster A node leaves an ExtraHop recordstore cluster A sensor or console is connected to an ExtraHop recordstore A sensor or console is disconnected from an ExtraHop recordstore An ExtraHop recordstore An ExtraHop recordstore node is removed or missing, but not through a supported interface

Category	Event
ExtraHop Update Service	 A detection category is updated A detection definition is updated A detection trigger is updated A ransomware definition is updated Detection metadata is updated Expanded detection content is updated
Firmware	Firmware is upgraded
Global Policies	Global policy for device group edit control is updated
Integrations	An integration is updated
License	 A new static license is applied License server connectivity is tested A product key is registered with the license server A new license is applied
Login to the ExtraHop system	A login succeedsA login fails
Login from SSH or REST API	A login succeedsA login fails
Modules	 NDR module access control is enabled NPM module access control is enabled
Network	 A network interface configuration is edited The hostname or DNS setting is changed A network interface route is changed
Offline capture	An offline capture file is loaded
PCAP	A packet capture (PCAP) file is downloaded
Remote Access	 Remote access for ExtraHop Support Team is enabled Remote access for ExtraHop Support Team is disabled Remote access for ExtraHop Support is enabled Remote access for ExtraHop Support is disabled
RPCAP	An RPCAP configuration is addedAn RPCAP configuration is deleted
Running Config	The running configuration file changes
SAML Identity Provider	An identity provider is added

Category	Event
	An identity provider is modified
	An identity provider is deleted
SAML login	A login succeeds
	 A login fails
SAML privileges	A privilege level is granted
	A privilege level is denied
Sensor tags	A sensor tag is created
	 A sensor tag is modified
	 A sensor tag is deleted
	 Tags on a sensor are changed
SSL decryption	An TLS decryption key is saved
SSL session keys	A PCAP session key is downloaded
Support account	The support account is disabled
	 The support account is enabled
	 The support SSH key is regenerated
Support Script	A default support script is running
	 A past support script result is deleted
	 A support script is uploaded
Syslog	Remote syslog settings are updated
System and service status	The system starts up
	 The system shuts down
	 The system is restarted
	 The bridge, capture, or portal process is restarted
	 A system service is enabled (such as SNMP,
	web shell, management, SSH)
	 A system service is disabled (such as SNMP, web shell, /management, SSH)
System time	The system time is set
	The system time is changed
	The system time is set backwards
	 NTP servers are set
	The time zone is set
	 A manual NTP synchronization is requested
System user	A user is added
	User metadata is edited
	A user is deleted
	A user password is set
	 A user other than the setup user attempts to
	modify the password of another user

Category	Event
	 A user password is updated
TAXII feeds	 A TAXII feed is added A TAXII feed is modified A TAXII feed is deleted
Threat briefings	A threat briefing is archivedA threat briefing is restored
ExtraHop packetstore	 A new ExtraHop packetstore is initialized A sensor or console is connected to an ExtraHop packetstore A sensor or console is disconnected from an ExtraHop packetstore An ExtraHop packetstore is reset
Trends	A trend is reset
Triggers	A trigger is addedA trigger is editedA trigger is deleted
User Groups	 A local user group is created A local user group is deleted A local user group is enabled A local user group is disabled