Send audit log data to a remote syslog server

Published: 2025-01-14

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://<extrahophostname-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:

```
"auditlog_rsyslog": {
    "syslog_destination": "192.168.0.0",
    "syslog_ipproto": "udp",
    "syslog_port": 514,
    "rfc_compliant_format": "rfc5424"
}
```

- e) 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:

```
"auditlog_rsyslog": {
    "syslog_destination": "192.168.0.0",
    "syslog_ipproto": "udp",
    "syslog_port": 514,
    "syslog_use_localtime": true
}
```

- e) Click Update.
- f) Click **Done**.

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 deleted All browser sessions are deleted
Cloud Services	 System connects to Cloud Services System disconnects from 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

Category	Event
	Console information is set
	A console nickname is set
	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
	A record type is enabled
	A record type is disabled
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

Category	Event
	 A sensor or console is disconnected from an ExtraHop recordstore An ExtraHop recordstore node is removed or missing, but not through a supported interface
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 succeeds A login fails An account is locked after too many failed login attempts An administrator unlocks an account
Login from SSH or REST API	 A login succeeds A login fails An account is locked after too many failed login attempts An administrator unlocks an account
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
Notification rules	 A notification rule is created A notification rule is deleted A notification rule is modified
Offline capture	An offline capture file is loaded

Category	Event
РСАР	• 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 added An RPCAP configuration is deleted
Running Config	The running configuration file changes
SAML Identity Provider	 An identity provider is added An identity provider is modified An identity provider is deleted
SAML login	A login succeedsA login fails
SAML privileges	A privilege level is grantedA 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

Category	Event
	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
	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 archived
	 A 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
	A packetstore disk is encrypted
	A packetstore disk is decrypted
Trends	A trend is reset
Triggers	A trigger is added
	A trigger is edited
	A 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