


Install the ExtraHop session key forwarder on a Linux server


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Perfect Forward Secrecy (PFS) is a property of secure communication protocols that enables short-term, completely private session key exchanges between clients and servers. ExtraHop offers session key forwarding software that can send session keys to the ExtraHop system for TLS decryption. Communication between the key forwarder and the sensor is encrypted with TLS 1.2 or TLS 1.3, and there is no limit to the number of session keys that the ExtraHop system can receive.

 **Note:** For more information about how the traffic feed or changes to the configuration might affect sensors, review the desync and capture drop rate metrics in the [System Health dashboard](#).

You must configure the ExtraHop system for session key forwarding and then install the forwarder software on the [Windows](#) and [Linux](#) servers that have the TLS traffic that you want to decrypt.

Before you begin

- Read about [TLS decryption](#) and review the list of [supported cipher suites](#).
 - Make sure that the ExtraHop system is licensed for TLS Decryption and TLS Shared Secrets.
 - Make sure that your server environment is supported by the ExtraHop session key forwarder software:
 - Microsoft Secure Channel (Schannel) security package
 - Java TLS (Java versions 8 through 17). Do not upgrade to this version of the session key forwarder if you are currently monitoring Java 6 or Java 7 environments. Version 7.9 of the session key forwarder supports Java 6 and Java 7, and is compatible with the latest ExtraHop firmware.
 - Dynamically linked OpenSSL (1.0.x and 1.1.x) libraries. OpenSSL is only supported on Linux systems with kernel versions 4.4 and later and RHEL 7.6 and later.
 - Make sure the server where you install the session key forwarder trusts the TLS certificate of the ExtraHop sensor.
 - Make sure your firewall rules allow connections to be initiated by the monitored server to TCP port 4873 on the sensor.
-  **Important:** The ExtraHop system cannot decrypt TLS-encrypted TDS traffic through session key forwarding. Instead, you can upload an RSA [private key](#).
- Install the session key forwarder on RHEL, CentOS, Fedora, or Debian-Ubuntu Linux distributions. The session key forwarder might not function correctly on other distributions.
 - The session key forwarder has not been extensively tested with SELinux and might not be compatible when enabled on some Linux distributions.

Enable the TLS session key receiver service

You must enable the session key receiver service on the ExtraHop system before the system can receive and decrypt session keys from the session key forwarder. By default, this service is disabled.

1. Log in to the Administration settings on the ExtraHop system through `https://<extrahop-hostname-or-IP-address>/admin`.
2. In the Appliance Settings section, click **Services**.
3. Select the **SSL Session Key Receiver** checkbox.
4. Click **Save**.

Add a global port to protocol mapping

Add each protocol for the traffic that you want to decrypt with your session key forwarders.

1. Log in to the Administration settings on the ExtraHop system through `https://<extrahop-hostname-or-IP-address>/admin`.
2. In the System Configuration section, click **Capture**.
3. Click **SSL Decryption**.
4. In the Private Key Decryption section, clear the Require Private Keys checkbox.
5. In the Global Protocol to Port Mapping section, click **Add Global Protocol**.
6. From the **Protocol** drop-down menu, select the protocol for the traffic that you want to decrypt.
7. In the Port field, type the number of the port.
Type 0 to add all ports.
8. Click **Add**.

Install the software

RPM-based distributions



Tip: You can install the forwarder without user interaction by specifying **environment variables** in the installation command.

1. Log in to your RPM-based Linux server.
2. [Download](#) the latest version of the ExtraHop session key forwarder software.
3. Open a terminal application and run the following command:

```
sudo rpm --install <path to installer file>
```

4. Open the initialization script in a text editor (vi or vim, for example).

```
sudo vi /opt/extrahop/etc/extrahop-key-forwarder.conf
```

5. Remove the hash symbol (#) before the EDA_HOSTNAME field and type the fully qualified domain name of your sensor, similar to the following example.

```
EDA_HOSTNAME=discover.example.com
```



Note: You can forward session keys to more than one sensor by entering comma-separated hostnames. For example:

```
EDA_HOSTNAME=packet-sensor.example.com,ids-sensor.example.com
```

6. Optional: The key forwarder receives session keys locally from the Java environment through a TCP listener on localhost (127.0.0.1) and the port specified in the LOCAL_LISTENER_PORT field. We recommended that this port remain set to the default of 598. If you change the port number, you must modify the `-javaagent` argument to account for the new port.
7. Optional: If you prefer that syslog writes to a different facility than `local3` for key forwarder log messages, you can edit the SYSLOG field.
The contents of the `extrahop-key-forwarder.conf` file should appear similar to the following example:

```
#EDA_HOSTED_PLATFORM=aws
EDA_HOSTNAME=sensor.example.com
LOCAL_LISTENER_PORT=598
```

```
SYSLOG=local3
ADDITIONAL_ARGS=''
```

8. Save the file and exit the text editor.
9. If your server is managing containers with the containerd runtime, you must add the following parameters to the `/opt/extrahop/etc/extrahop-key-forwarder.conf` configuration file:
 - `-containerd-enable`
 - `-containerd-socket`
 - `-containerd-state`
 - `-containerd-state-rootfs-subdir`

For more information about these parameters and other optional parameters, see [Session key forwarder options](#).
10. Start the `extrahop-key-forwarder` service:

```
sudo service extrahop-key-forwarder start
```

Debian-Ubuntu distributions



Tip: You can install the forwarder without user interaction by specifying [environment variables](#) in the installation command.

1. Log in to your Debian or Ubuntu Linux server.
2. [Download](#) the latest version of the ExtraHop session key forwarder software.
3. Open a terminal application and run the following command.

```
sudo dpkg --install <path to installer file>
```

4. Select **direct** and then press ENTER.
5. Type the fully qualified domain name or IP address of the ExtraHop system where session keys will be forwarded and then press ENTER.



Note: You can forward session keys to more than one sensor by entering comma-separated hostnames. For example:

```
packet-sensor.example.com,ids-sensor.example.com
```

6. If your server is managing containers with the containerd runtime, you must add the following parameters to the `/opt/extrahop/etc/extrahop-key-forwarder.conf` configuration file:
 - `-containerd-enable`
 - `-containerd-socket`
 - `-containerd-state`
 - `-containerd-state-rootfs-subdir`

For more information about these parameters and other optional parameters, see [Session key forwarder options](#).

7. Ensure that the `extrahop-key-forwarder` service started:

```
sudo service extrahop-key-forwarder status
```

The following output should appear:

```
extrahop-key-forwarder.service - LSB: ExtraHop Session Key Forwarder
Loaded: loaded (/etc/rc.d/init.d/extrahop-key-forwarder; bad; vendor
       preset: disabled)
Active: active (running) since Tue 2018-04-10 10:55:47 PDT; 5s ago
```

If the service is not active, run the following command:

```
sudo service extrahop-key-forwarder start
```

Integrate the forwarder with the Java-based TLS application

The ExtraHop session key forwarder integrates with Java applications through the `-javaagent` option. Consult your application's specific instructions for modifying the Java runtime environment to include the `-javaagent` option.

As an example, many Tomcat environments support customization of Java options in the `/etc/default/tomcat7` file. In the following example, adding the `-javaagent` option to the `JAVA_OPTS` line causes the Java runtime to share TLS session secrets with the key forwarder process, which then relays the secrets to the ExtraHop system so that the secrets can be decrypted.

```
JAVA_OPTS="... -javaagent:/opt/extrahop/lib/exagent.jar"
```

If your server is running Java 17 or later, you must also allow the `sun.security.ssl` module to access all unnamed modules with the `--add-opens` option, as shown in the following example:

```
JAVA_OPTS="... -javaagent:/opt/extrahop/lib/exagent.jar --add-opens
java.base/sun.security.ssl=ALL-UNNAMED"
```

Validate and troubleshoot your installation

If your Linux server has network access to the ExtraHop system and the server TLS configuration trusts the certificate presented by the ExtraHop system that you specified when you installed the session key forwarder, then the configuration is complete.

In cases where you might have problems with the configuration, the session key forwarder binary includes a test mode you can access from the command-line to test your configuration.

1. Log in to your Linux server.
2. To validate your installation, perform an initial test by running the following command:

```
/opt/extrahop/sbin/extrahop-agent -t=true -server <eda hostname>
```

The following output should appear:

```
<timestamp> Performing connectivity test
<timestamp> No connectivity issues detected
```

If there is a configuration issue, troubleshooting tips appear in the output to help you correct the issue. Follow the suggestions to resolve the issue and then run the test again.

3. You can optionally test the certificate path and server name override by adding the following options to the command above.
 - Specify this option to test the certificate without adding it to the certificate store.

```
-cert <file path to certificate>
```

- Specify this option to test the connection if there is a mismatch between the ExtraHop system hostname that the forwarder knows (SERVER) and the common name (CN) that is presented in the TLS certificate of the ExtraHop system.

```
-server-name-override <common name>
```

(Optional) Configure a server name override

If there is a mismatch between the ExtraHop system hostname that the forwarder knows (SERVER) and the common name (CN) that is presented in the TLS certificate of the ExtraHop system, then the forwarder must be configured with the correct CN.

We recommend that you regenerate the TLS self-signed certificate based on the hostname from the SSL Certificate section of the Administration settings instead of specifying this parameter.

1. Log in to your Linux server.
2. Open the configuration file in a text editor.

```
vi /opt/extrahop/etc/extrahop-key-forwarder.conf
```

3. Add a `SERVER_NAME_OVERRIDE` parameter with a value of the name found in the ExtraHop system TLS certificate, similar to the following example:


```
SERVER_NAME_OVERRIDE=altname.example.com
```

4. Save the file and exit the text editor.
5. Start the `extrahop-key-forwarder` service.

```
sudo service extrahop-key-forwarder start
```

Key receiver system health metrics

The ExtraHop system provides key receiver metrics that you can add to a dashboard chart to monitor key receiver health and functionality.

To view a list of available metrics, click the System Settings icon  and then click **Metric Catalog**. Type `key receiver` in the filter field to display all available key receiver metrics.

Metric Catalog

key receiver

System

Key Receiver System Health - Attempted Connections

The number of TCP connections that were initiated to the session key receiver port

System

Key Receiver System Health - Disconnections

The number of connections that clients ended intentionally. This number does not

System

Key Receiver System Health - Failed SSL Handshakes

The number of connections to the session key receiver port that did not proceed

System

Key Receiver System Health - Failed Certificate Authority

The number of connections to the session key receiver port that did not proceed



Tip: To learn how to create a new dashboard chart, see [Edit a chart with the Metric Explorer](#).

View connected session key forwarders

You can view recently connected session key forwarders after you install the session key forwarder on your server and enable the TLS session key receiver service on the ExtraHop system. Note that this page only displays session key forwarders that have connected over the last few minutes, not all session key forwarders that are currently connected.

1. Log in to the Administration settings on the ExtraHop system through `https://<extrahop-hostname-or-IP-address>/admin`.
2. In the System Configuration section, click **Capture**.
3. Click **SSL Shared Secrets**.

Uninstall the software

If you no longer want the ExtraHop session key forwarder software installed, complete the following steps.

1. Log in to the Linux server.
2. Open a terminal application and choose one of the following options to remove the software.
 - For RPM-based servers, run the following command:

```
sudo rpm --erase extrahop-key-forwarder
```

- For Debian and Ubuntu servers, run the following command:

```
sudo apt-get --purge remove extrahop-key-forwarder
```

Type **Y** at the prompt to confirm the software removal and then press ENTER.

3. Click **Yes** to confirm.
4. After the software is removed, click **Yes** to restart the system

Common error messages

Errors created by the session key forwarder are logged to the Linux system log file.

| Message | Cause | Solution |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| connect: dial tcp <IP address>:4873: connectex: A connection attempt failed because the connected party did not properly respond after a period of time, or established connection failed because connected host has failed to respond | The monitored server cannot route any traffic to the sensor. | Ensure firewall rules allow connections to be initiated by the monitored server to TCP port 4873 on the sensor. |
| connect: dial tcp <IP address>:4873: connectex: No connection could be made because the target machine actively refused it | The monitored server can route traffic to the sensor, but the receiving process is not listening. | Ensure that the sensor is licensed for both the TLS Decryption and TLS Shared Secrets features. |
| connect: x509: certificate signed by unknown authority | The monitored server is not able to chain up the sensor certificate to a trusted Certificate Authority (CA). | Ensure that the Linux certificate store for the computer account has trusted root certificate authorities that establish a chain of trust for the sensor. |
| connect: x509: cannot validate certificate for <IP address> because it doesn't contain any IP SANs | An IP address was supplied as the <code>SERVER</code> parameter when installing the forwarder, but the TLS certificate presented by the sensor does not include an IP address as a Subject Alternate Name (SAN). | Select from the following three solutions. <ul style="list-style-type: none"> • Replace the IP address for the <code>SERVER</code> value in the <code>/etc/init.d/extrahop-key-forwarder</code> file with a hostname. The hostname must match the subject name in the sensor certificate. <hr/> <ul style="list-style-type: none"> • If the server is required to connect to the sensor by IP address, uninstall and reinstall the forwarder, specifying the subject name from the sensor certificate as |

| Message | Cause | Solution |
|---------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | the value of <code>server-name-override</code> . |
| | | <ul style="list-style-type: none"> Re-issue the sensor certificate to include an IP Subject Alternative Name (SAN) for the given IP address. |

Supported TLS cipher suites

The ExtraHop system can decrypt TLS traffic that has been encrypted with PFS or RSA cipher suites. All supported cipher suites can be decrypted by installing the session key forwarder on a server and configuring the ExtraHop system.

Cipher suites for RSA can also decrypt the traffic with a certificate and private key—with or without session key forwarding.

Decryption methods

The table below provides a list of cipher suites that the ExtraHop system can [decrypt](#) along with the supported decryption options.

- PFS + GPP:** the ExtraHop system can decrypt these cipher suites with session key forwarding and [global protocol to port mapping](#)
- PFS + Cert:** the ExtraHop system can decrypt these cipher suites with session key forwarding and the [certificate and private key](#)
- RSA + Cert:** the ExtraHop system can decrypt these cipher suites without session key forwarding as long as you have uploaded the [certificate and private key](#)

| Hex Value | Name (IANA) | Name (OpenSSL) | Supported Decryption |
|-----------|-----------------------------------|----------------------|---------------------------------|
| 0x04 | TLS_RSA_WITH_RC4_128_MD5 | RC4-MD5 | PFS + GPP PFS + Cert RSA + Cert |
| 0x05 | TLS_RSA_WITH_RC4_128_SHA | RC4-SHA | PFS + GPP PFS + Cert RSA + Cert |
| 0x0A | TLS_RSA_WITH_3DES_EDE_CBC_SHA | DES-CBC3-SHA | PFS + GPP PFS + Cert RSA + Cert |
| 0x16 | TLS_DHE_RSA_WITH_3DES_EDE_CBC_SHA | EDH-RSA-DES-CBC3-SHA | PFS + GPP PFS + Cert |
| 0x2F | TLS_RSA_WITH_AES_128_CBC_SHA | AES128-SHA | PFS + GPP PFS + Cert RSA + Cert |
| 0x33 | TLS_DHE_RSA_WITH_AES_128_CBC_SHA | DHE-RSA-AES128-SHA | PFS + GPP PFS + Cert |

| Hex Value | Name (IANA) | Name (OpenSSL) | Supported Decryption |
|-----------|---------------------------------------|------------------------------|---------------------------------|
| 0x35 | TLS_RSA_WITH_AES_256_CBC_SHA | AES256-SHA | PFS + GPP PFS + Cert RSA + Cert |
| 0x39 | TLS_DHE_RSA_WITH_AES_256_CBC_SHA | DHE-RSA-AES256-SHA | PFS + GPP PFS + Cert |
| 0x3C | TLS_RSA_WITH_AES_128_CBC_SHA256 | AES128-SHA256 | PFS + GPP PFS + Cert RSA + Cert |
| 0x3D | TLS_RSA_WITH_AES_256_CBC_SHA256 | AES256-SHA256 | PFS + GPP PFS + Cert RSA + Cert |
| 0x67 | TLS_DHE_RSA_WITH_AES_128_CBC_SHA256 | DHE-RSA-AES128-SHA256 | PFS + GPP PFS + Cert |
| 0x6B | TLS_DHE_RSA_WITH_AES_256_CBC_SHA256 | DHE-RSA-AES256-SHA256 | PFS + GPP PFS + Cert |
| 0x9C | TLS_RSA_WITH_AES_128_GCM_SHA256 | AES128-GCM-SHA256 | PFS + GPP PFS + Cert RSA + Cert |
| 0x9D | TLS_RSA_WITH_AES_256_GCM_SHA384 | AES256-GCM-SHA384 | PFS + GPP PFS + Cert RSA + Cert |
| 0x9E | TLS_DHE_RSA_WITH_AES_128_GCM_SHA256 | DHE-RSA-AES128-GCM-SHA256 | PFS + GPP PFS + Cert |
| 0x9F | TLS_DHE_RSA_WITH_AES_256_GCM_SHA384 | DHE-RSA-AES256-GCM-SHA384 | PFS + GPP PFS + Cert |
| 0x1301 | TLS_AES_128_GCM_SHA256 | TLS_AES_128_GCM_SHA256 | PFS + GPP PFS + Cert |
| 0x1302 | TLS_AES_256_GCM_SHA384 | TLS_AES_256_GCM_SHA384 | PFS + GPP PFS + Cert |
| 0x1303 | TLS_CHACHA20_POLY1305_SHA256 | TLS_CHACHA20_POLY1305_SHA256 | PFS + GPP PFS + Cert |
| 0xC007 | TLS_ECDHE_ECDSA_WITH_RC4_128_SHA | ECDHE-ECDSA-RC4-SHA | PFS + GPP |
| 0xC008 | TLS_ECDHE_ECDSA_WITH_3DES_EDE_CBC_SHA | ECDHE-ECDSA-DES-CBC3-SHA | PFS + GPP |
| 0xC009 | TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA | ECDHE-ECDSA-AES128-SHA | PFS + GPP |
| 0xC00A | TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA | ECDHE-ECDSA-AES256-SHA | PFS + GPP |
| 0xC011 | TLS_ECDHE_RSA_WITH_RC4_128_SHA | ECDHE-RSA-RC4-SHA | PFS + GPP PFS + Cert |

| Hex Value | Name (IANA) | Name (OpenSSL) | Supported Decryption |
|-----------|-----------------------------------------------|-------------------------------|----------------------|
| 0xC012 | TLS_ECDHE_RSA_WITH_3DES_EDE_CBC_SHA | ECDHE-RSA-DES-CBC3-SHA | PFS + GPP PFS + Cert |
| 0xC013 | TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA | ECDHE-RSA-AES128-SHA | PFS + GPP PFS + Cert |
| 0xC014 | TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA | ECDHE-RSA-AES256-SHA | PFS + GPP PFS + Cert |
| 0xC023 | TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA256 | ECDHE-ECDSA-AES128-SHA256 | PFS + GPP |
| 0xC024 | TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA384 | ECDHE-ECDSA-AES256-SHA384 | PFS + GPP |
| 0xC027 | TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 | ECDHE-RSA-AES128-SHA256 | PFS + GPP PFS + Cert |
| 0xC028 | TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 | ECDHE-RSA-AES256-SHA384 | PFS + GPP PFS + Cert |
| 0xC02B | TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 | ECDHE-ECDSA-AES128-GCM-SHA256 | PFS + GPP |
| 0xC02C | TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 | ECDHE-ECDSA-AES256-GCM-SHA384 | PFS + GPP |
| 0xC02F | TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 | ECDHE-RSA-AES128-GCM-SHA256 | PFS + GPP PFS + Cert |
| 0xC030 | TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 | ECDHE-RSA-AES256-GCM-SHA384 | PFS + GPP PFS + Cert |
| 0xCCA8 | TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256 | ECDHE-RSA-CHACHA20-POLY1305 | PFS + GPP PFS + Cert |
| 0xCCA9 | TLS_ECDHE_ECDSA_WITH_CHACHA20_POLY1305_SHA256 | ECDHE-ECDSA-CHACHA20-POLY1305 | PFS + GPP |
| 0xCCAA | TLS_DHE_RSA_WITH_CHACHA20_POLY1305_SHA256 | DHE-RSA-CHACHA20-POLY1305 | PFS + GPP PFS + Cert |

Session key forwarder options

You can configure the session key forwarder by editing the `/opt/extrahop/etc/extrahop-key-forwarder.conf` file.

The table below lists all of the configurable options.

Important: If you add options to `extrahop-key-forwarder.conf` that do not have dedicated variables, they must be in the `ADDITIONAL_ARGS` field. For example:

```
ADDITIONAL_ARGS="-v=true -libcrypto=/some/path/libcrypto.so
-libcrypto=/some/other/path/libcrypto.so"
```

| Option | Description |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>-cert <path></code> | Specifies the path to the server certificate. Only specify this option if the server certificate is not signed by a trusted certificate authority. |
| <code>-containerd-enable</code> | Enables the enumeration of containers managed with the containerd runtime. This option is disabled by default. You must type <code>-containerd-enable</code> to enable containerd support. |
| <code>-containerd-socket <string></code> | The full path of the containerd socket file. |
| <code>-containerd-state <string></code> | The full path of the containerd state directory. |
| <code>-containerd-state-rootfs-subdir <string></code> | The relative path of the <code>rootfs</code> subdirectory of the containerd state directory. |
| <code>-docker-enable</code> | Enables the enumeration of Docker containers. This option is enabled by default. You must type <code>-docker-enable=false</code> to disable Docker support. |
| <code>-docker-envoy <path></code> | Specifies additional Envoy paths within Docker containers. You can specify this option multiple times. |
| <code>-docker-go-binary <value></code> | Specifies glob patterns to find Go binaries within Docker containers. You can specify this option multiple times. |
| <code>-docker-libcrypto <path></code> | Specifies the path to <code>libcrypto</code> within Docker containers. You can specify this option multiple times. |
| <code>-envoy <path></code> | Specifies additional Envoy paths on the host. You can specify this option multiple times. |
| <code>-go-binary <value></code> | Specifies glob patterns to find Go binaries. You can specify this option multiple times. |
| <code>-heartbeat-interval</code> | Specifies the time interval in seconds between heartbeat messages. The default interval is 30 seconds. |
| <code>-host-mount-path <path></code> | Specifies the path where the host file system is mounted when running the session key forwarder inside a container. |
| <code>-hosted <platform></code> | Specifies that the agent is running in the specified hosted platform. The platform is currently limited to <code>aws</code> . |
| <code>-ldconfig-cache <path></code> | Specifies the path to the <code>ldconfig</code> cache, <code>ld.so.cache</code> . The default path is <code>/etc/ld.so.cache</code> . You can specify this option multiple times. |

| Option | Description |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>-libcrypto <path></code> | Specifies the path to the OpenSSL library, <code>libcrypto</code> . You can specify this option multiple times if you have multiple installations of OpenSSL. |
| <code>-no-docker-envoy</code> | Disables Envoy support within Docker containers. |
| <code>-no-envoy</code> | Disables Envoy support on the host. |
| <code>-openssl-discover</code> | Automatically discovers <code>libcrypto</code> implementations. The default value is "true". You must type <code>-openssl-discover=false</code> to disable OpenSSL decryption. |
| <code>-pidfile <path></code> | Specifies the file where this server records its process ID (PID). |
| <code>-port <value></code> | Specifies the TCP port that the sensor is listening on for forwarded session keys. The default port is 4873. |
| <code>-server <string></code> | Specifies the fully qualified domain name of the packet sensor. |
| <code>-server-name-override <value></code> | Specifies the subject name from the sensor certificate. Specify this option if this server can only connect to the packet sensor by IP address. |
| <code>-syslog <facility></code> | Specifies the facility sent by the key forwarder. The default facility is local3. |
| <code>-t</code> | Perform a connectivity test. You must type <code>-t=true</code> to run with this option. |
| <code>-tcp-listen-port <value></code> | Specifies the TCP port that the key forwarder is listening on for forwarded session keys. |
| <code>-username <string></code> | Specifies the user that the session key forwarder runs under after the forwarder software is installed. |
| <code>-v</code> | Enable verbose logging. You must type <code>-v=true</code> to run with this option. |

Linux environment variables

The following environment variables enable you to install the session key forwarder without user interaction.

| Variable | Description | Example |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <code>EXTRAHOP_EDA_HOSTNAME</code> | Specifies the fully qualified domain name of the sensor. | <pre>sudo EXTRAHOP_CONNECTION_MODE=direct EXTRAHOP_EDA_HOSTNAME=host.example. dpkg --install extrahop- key-forwarder_amd64.deb</pre> |
| <code>EXTRAHOP_LOCAL_LISTENER_PORT</code> | The key forwarder receives session keys locally from the Java environment through a TCP listener on localhost (127.0.0.1) and the port specified in the | <pre>sudo EXTRAHOP_CONNECTION_MODE=direct EXTRAHOP_EDA_HOSTNAME=host.example. EXTRAHOP_LOCAL_LISTENER_PORT=900</pre> |

| Variable | Description | Example |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | LOCAL_LISTENER_PORT field. We recommended that this port remain set to the default of 598. If you change the port number, you must modify the -javaagent argument to account for the new port. | <pre>rpm --install extrahop- key-forwarder.x86_64.rpm</pre> |
| EXTRAHOP_SYSLOG | Specifies the facility, or machine process, that created the syslog event. The default facility is local3, which is system daemon processes. | <pre>sudo EXTRAHOP_CONNECTION_MODE=direct EXTRAHOP_EDA_HOSTNAME=host.example. EXTRAHOP_SYSLOG=local1 dpkg --install extrahop- key-forwarder_amd64.deb</pre> |
| EXTRAHOP_ADDITIONAL_ARGS | Specifies additional key forwarder options. | <pre>sudo EXTRAHOP_CONNECTION_MODE=hosted EXTRAHOP_ADDITIONAL_ARGS="- v=true -libcrypto= some/path/libcrypto.so libcrypto=/some/other/ path/libcrypto.so" rpm --install extrahop-key- forwarder.x86_64.rpm</pre> |