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Installing X-Pack in Elasticsearch

X-Pack

After you install Elasticsearch, you can optionally obtain and install X-Pack. For more information about how to obtain X-Pack, see <https://www.elastic.co/products/x-pack>.

You must run the version of X-Pack that matches the version of Elasticsearch you are running.

Getting Started Videos



[Elasticsearch Demo](#) [↗](#)



[Kibana 101](#) [↗](#)



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If you are installing X-Pack for the first time on an existing cluster, you must perform a full cluster restart. Installing X-Pack enables security and security must be enabled on ALL nodes in a cluster for the cluster to operate correctly. When upgrading you can usually perform a [rolling upgrade](#).

To install X-Pack in Elasticsearch:

1. Optional: If you want to install X-Pack on a machine that doesn't have internet access:

- a. Manually download the X-Pack zip file:

<https://artifacts.elastic.co/downloads/packs/x-pack/x-pack-5.6.1.zip> (sha1)



The plugins for Elasticsearch, Kibana, and Logstash are included in the same zip file. If you have already downloaded this file to install X-Pack on one of those other products, you can reuse the same file.

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- b. Transfer the zip file to a temporary directory on the offline machine. (Do NOT put the file in the Elasticsearch plugins directory.)
2. Run `bin/elasticsearch-plugin install` from `ES_HOME` on each node in your cluster:

在线安装

```
bin/elasticsearch-plugin install x-pack
```



NOTE

If you are using a [DEB/RPM distribution](#) of Elasticsearch, run the installation with superuser permissions.

The plugin install scripts require direct internet access to download and install X-Pack. If your server doesn't have internet access, specify the location of the X-Pack zip file that you downloaded to a temporary directory.

```
bin/elasticsearch-plugin install file:///path/to/file/x-pack-5.6.1.zip
```

离线安装



NOTE

You must specify an absolute path to the zip file after the `file://` protocol.

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3. Confirm that you want to grant X-Pack additional permissions.



TIP

Specify the `--batch` option when running the install command to automatically grant these permissions and bypass these install prompts.

- a. X-Pack needs these permissions to set the threat context loader during install so Watcher can send email notifications.

```
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@  WARNING: plugin requires additional permissions
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
* java.lang.RuntimePermission accessClassInPackage.cc
* java.lang.RuntimePermission getClassLoader
* java.lang.RuntimePermission setContextClassLoader
* java.lang.RuntimePermission setFactory
* java.security.SecurityPermission createPolicy.JavaPolic
* java.security.SecurityPermission getPolicy
* java.security.SecurityPermission putProviderProperty.BC
```

```
* java.security.SecurityPermission setPolicy
* java.util.PropertyPermission * read,write
* java.util.PropertyPermission sun.nio.ch.bugLevel write
* javax.net.ssl.SSLPermission setHostnameVerifier
See http://docs.oracle.com/javase/8/docs/technotes/guide
for descriptions of what these permissions allow and the a

Continue with installation? [y/N]y
```

- b. X-Pack requires permissions to enable Elasticsearch to launch the machine learning analytical engine. The native controller ensures that the launched process is a valid machine learning component. Once launched, communications between the machine learning processes and Elasticsearch are limited to the operating system user that Elasticsearch runs as.

```
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@    WARNING: plugin forks a native controller    @
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
This plugin launches a native controller that is not subject to
the Java security manager nor to system call filters.
```

4. X-Pack will try to automatically create a number of indices within Elasticsearch. By default, Elasticsearch is configured to allow automatic index creation, and no additional steps are required. However, if you have disabled automatic index creation in Elasticsearch, you must configure `action.auto_create_index` in `elasticsearch.yml` to allow X-Pack to create the following indices:

```
action.auto_create_index: .security,.monitoring*,.watches,  
.triggered_watches,.watcher-history*,.ml*
```



If you are using [Logstash](#) or [Beats](#) then you will most likely require additional index names in your `action.auto_create_index` setting, and the exact value will depend on your local configuration. If you are unsure of the correct value for your environment, you may consider setting the value to `*` which will allow automatic creation of all indices.

5. Start Elasticsearch.

```
bin/elasticsearch
```

For information, see [Installing X-Pack on Kibana](#) and [Installing X-Pack on Logstash](#).



SSL/TLS encryption is disabled by default, which means user credentials are passed in the clear. **Do not deploy to production without enabling encryption!**

For more information, see [Encrypting Communications](#).

You must also **change the passwords** for the built-in **elastic** user and the **kibana** user that enables Kibana to communicate with Elasticsearch before deploying to production. For more information, see [Setting Up User Authentication](#).

Installing X-Pack on a DEB/RPM Package

Installation

If you use the DEB/RPM packages to install Elasticsearch, by default Elasticsearch is installed in `/usr/share/elasticsearch` and the configuration files are stored in `/etc/elasticsearch`. (For the complete list of default paths, see [Debian Directory Layout](#) and [RPM Directory Layout](#) in the Elasticsearch Reference.)

To install X-Pack on a DEB/RPM package installation, you need to run `bin/plugin install` from the `/usr/share/elasticsearch` directory with superuser permissions:

```
cd /usr/share/elasticsearch
sudo bin/elasticsearch-plugin install x-pack
```



If the configuration files are not in `/etc/elasticsearch` you need to specify the location of the configuration files by setting the system property `es.path.conf` to the config path via `ES_JAVA_OPTS="-Des.path.conf=<path>"` or by setting the environment variable `CONF_DIR` via `CONF_DIR=<path>`.

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