

ESET Inspect

User guide

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ESET Inspect

ESET Inspect is an essential component to help ensure the highest level of enterprise security. While standard ESET Endpoint Security provides strong protection, ESET Inspect takes your environment's security to a new dimension. A security tool is needed to help security professionals protect their sensitive data and detect and investigate security incidents, advanced threats, and targeted attacks or breaches on endpoint devices. ESET Inspect is a tool that offers the peace of mind of continuous protection and security monitoring in a powerful and easy-to-use solution.

ESET Inspect collects data in real time on endpoint devices. The data is matched against a set of rules to detect suspicious activities automatically. Then the aggregated data is processed, and the information is prioritized and correlated in a searchable form. This aggregated data enable a security professional to search for unusual and suspicious activities more efficiently and enables an accurate incident response, management, and reporting.

ESET Inspect is a solution that includes the following three components:

- **ESET Inspect Connector** is installed on endpoint devices that are monitored by ESET Inspect and collect the data for the ESET Inspect, removes malicious components, and blocks the execution of these components
- **ESET Inspect Server** continually aggregates and stores the collected data and displays it in the ESET Inspect Web Console
- **ESET Inspect Web Console** is the user interface for ESET Inspect built as an HTML5 web application

Key features

ESET Inspect is an essential component to help ensure the highest level of enterprise security. As a critical tool for risk assessment and detection, ESET Inspect is a comprehensive Endpoint Detection and Response (EDR) system that includes the following features:

- **Incident detection**—Monitor the Detections section to reveal security incidents, Advanced Persistent Threats (APT), targeted attacks.
- **Incident management and response**—Use a built-in set of rules or create your own rules to respond to detected incidents. The rules guide is available in the help section of the ESET Inspect Web Console.
- **Data collection**—Determine when an executable was launched for the first time and by whom, check the dwell time and attacked devices.
- **Indicators of Compromise (IOC) detection.**
- **Anomaly detection**—See what is being executed in your company network and reveal unexpected actions.
- **Behavior detection**—See what actions were carried out by an Executable: modified files, changing registry entries, connections made. Assess if the executed processes are safe or suspicious by looking at markers such as LiveGrid® reputation.
- **Policy violations**—Block malicious executables from being executed on any computer in your company network.
- **Email notifications**—Cooperation of ESET Inspect with ESET PROTECT results in beneficial security email notifications.

Known issues

- [Uninstallation](#) task in ESET PROTECT / ESET PROTECT Cloud for ESET Inspect Connector is not working at the moment. Temporarily use [Run Command](#) task with a parameter `"/opt/eset/eei/uninstall.sh"`.

System Requirements

The system requirements for ESET Inspect are specified for [Hardware Requirements](#) and [Software Requirements](#).

Hardware Requirements



Hardware requirements depend on the number of events. The event from the ESET Inspect side of view includes File system events (read file, write file, etc.), TCP events, Registry events, HTTP events, DNS events, etc.

There are two ways to get the number of events.

Before installing the ESET Inspect Server:

1. Install the [ESET Inspect Connector](#) on at least three endpoints (ESET Inspect Connector is operable without ESET Inspect Server).
2. Activate the product with a valid ESET Inspect license. The activation is done via ESET PROTECT by creating a "Product activation" task. To do this, contact your ESET PROTECT Administrator or create a [Product Activation](#) task.
3. Wait for at least a day.
4. Navigate to the folder where ESET Inspect Connector is installed (by default `C:\Program Files\ESET\Inspect Connector`) and run command `EIConnector.exe --stats`.
5. From the output, use "Average Events Per Day".

After the ESET Inspect Server is already installed and working:

1. Go to Dashboard->Events load tab and check the highest values of events received per 24h in the "Events processed and stored per computer" chart.

To calculate the estimated CPU, RAM, and disk space requirements for ESET Inspect Server and MySQL on the same machine, use the following calculator:

MySQL Microsoft SQL Server

Endpoints:

Events per 24h per endpoint:

Estimate

This environment requires Enterprise Inspector Server to be able to write at least events per second (EPS)

Minimum hardware configurations:

Estimated events written per second are shown in the brackets

The estimated number of CPU cores is based on tests using an Intel Xenon 2.7GHz but other server specific x64 CPUs, such as Intel Xeon and AMD Epyc, can be used after scaling the number of cores to compensate for potentially lower clock rates.

Estimated database sizes:

The values in the table below are based on the assumption that the endpoint does not have more than a hundred thousand events generated per day, and the default data retention is 31 days. If the number of events in your environment is higher than a hundred thousand, you should proportionally scale the number from the table.

Minimum requirements						
	MS SQL Server			MySQL		
Number of Endpoints	500	1000	5000	500	1000	5000
Memory	4 GB	4 GB	12 GB	4 GB	4 GB	12 GB
Disk space	566 GB	1.24 TB	6.2 TB	566 GB	1.1 TB	5.6 TB
Disk IOPS	1500	1500	3000	1000	2000	3000
Number of CPU cores	2	2	10	2	2	8

 The estimated database size does not consider various logs (MySQL general query log, MySQL binary log, or SQL Server transaction log). If not needed to store them for your purposes, consider disabling them or clearing the logs regularly to reduce their disk space.

Disk Space Consumption Reduction

We recommend these [steps](#) for disk space consumption reduction.

This can significantly save the disk space used by stored events.

 If the Windows Server OS's space goes under 10 percent of the partition capacity (C:\), ESET Inspect stops accepting data from endpoints.

The disk IOPS

To get the information regarding the IOPS that your disk can provide, use the tool described below:

66% of IOPS triggered by ESET Inspect are write-related operations, and the block size is 32KB.

IOPS achieved by the customer's hardware can be measured using the following command line: `diskspd -b32K -d60 -o4 -t8 -h -r -w65 -L -Z1G -c20G C:\iotest.dat > C:\DiskSpeedResults.txt`.

diskspd is a Microsoft tool that can be downloaded from:

<https://docs.microsoft.com/en-us/azure-stack/hci/manage/diskspd-overview>

The CPU and RAM impact reduction

To reduce the impact on CPU and RAM, you can use two approaches:

1. Navigate to **Dashboard->Server Status->Event Packet Queue Length**. If the chart shows most of the

time 500, then consider upgrading your hardware or lower the load on the server by using the steps described in the [Disk Space Consumption Reduction](#).

2. You can change the interval of sending the events from connectors to the server. By default, the interval is every 7 minutes. The user can change this in ESET PROTECT by going into **Policies > New Policy > Connection > Interval of sending events to the server (minutes)**. The possible interval is 5-1440 minutes.

To support a specific number of endpoints, ensure that the [ephemeral port pool](#) size is twice as big as the endpoint's number.

Command to check the current size of the ephemeral port pool:

```
netsh int ipv4 show dynamicport tcp
```

! Command to set ephemeral port pool size:

```
netsh int ipv4 set dynamicport tcp start=<number> num=<size>
```

e.g.: To set the ephemeral port pool to 60k, type the following:

```
netsh int ipv4 set dynamicport tcp start=5536 num=60000
```

Note: Maximal port number can be 65536. It is recommended not to set starting port lower than 1500.

Reduction of the database size

The ways to reduce disk space usage are:

1. Store the low-level data for the shortest possible time. The database size is proportional to the amount of low-level data stored in the database, so lower the amount by keeping the low-level data as briefly as possible. This can be configured through tabs **Admin->Server Settings->Database Retention**.

i A low-level event is something a process does. So, write a file, do a DNS lookup, create a registry entry, etc. These can be seen in the Events view.

2. Store less low-level data. Instead of storing all data, keep only the most important data or data related directly to detections. This will not lower the protection because everything is still being analyzed to detect suspicious activity, even if not everything is stored. The amount of stored data can be changed in the tab **Admin->Server Settings->Data collection**. But some ESET Inspect features don't work or are limited when not everything is stored. More information about these limitations is [here](#).

3. Use Event Filters to selectively not store low-level events from some executables or computers. **Dashboard->Events Load** helps to find executables and computers that report most low-level events and where filters should be applied.

4. Check database settings that can cause increased disk usage:

a. For MySQL, check binary log usage. See more information [here](#).

b. For Microsoft SQL Server, check recovery models. See more information [here](#).

These settings are commonly used for backups so if they are needed, make sure that they are configured and used correctly.

Software Requirements

The following sections describe ESET Inspect software requirements like support of [Operating Systems](#), [Database](#) or [Supported Web Browsers and ESET Products](#).

ESET PROTECT 8.0 or newer is required for ESET Inspect to monitor computers. For Administrator and User account settings, see [ESET PROTECT Account Settings](#). For instructions to install ESET PROTECT, see [ESET PROTECT Installation Guide](#).

The ESET Inspect Server requires 64-bit version of Visual C++ redistributable to be installed before the server is installed. The redistributable file can be downloaded from this [link](#).

Operating Systems

The following sections describe ESET Inspect support for [Windows](#), [macOS](#) and [Linux](#) operating system versions.

Windows

The following table displays the supported Windows operating systems for each ESET Inspect component:

Operating System	ESET Inspect Server	ESET Inspect Connector
Windows 7 SP1 32-bit / 64-bit		✓
Windows 8.1 32-bit / 64-bit		✓
Windows 10, version 1903 32-bit / 64-bit		✓
Windows 10, version 1909 32-bit / 64-bit		✓
Windows 10, version 2004 (H1 2020) 32-bit / 64-bit		✓
Windows 10, version 20H2 (H2 2020) 32-bit / 64-bit		✓
Windows 10, version 21H1 32-bit / 64-bit		✓
Windows 11, version 21H2 32-bit / 64-bit		✓
Windows Server 2008 R2 SP1 64-bit		✓
Windows Server 2012 64-bit	✓	✓
Windows Server 2012 R2 64-bit	✓	✓
Windows Server 2016 64-bit	✓	✓
Windows Server 2019 64-bit	✓	✓
Windows Server 2019, version 2004 64-bit	✓	✓
Windows Server 2019, version 20H2 64-bit	✓	✓
Windows Server 2022 64-bit	✓	✓

macOS

The following table displays the supported macOS operating systems for ESET Inspect Connector component:

Operating system	Connector
macOS 10.12 (Sierra)	✓
macOS 10.13 (High Sierra)	✓
macOS 10.14 (Mojave)	✓
macOS 10.15 (Catalina)	✓
macOS 11 (Big Sur)	✓
macOS 12.0 (Monterey)	✓

Linux

The following table displays the supported Linux operating systems for ESET Inspect Connector component:

Operating system	Endpoint Antivirus for Linux	Server Security for Linux
RedHat Enterprise Linux (RHEL) 7.6+	✓	✓
RedHat Enterprise Linux (RHEL) 8	✓	✓
Centos 7.6+		✓
Ubuntu 18.04	✓	✓
Ubuntu 20.04	✓	✓
Debian 10		✓
Debian 11		✓
SUSE Linux Enterprise Server (SLES) 12		✓
SUSE Linux Enterprise Server (SLES) 15		✓
SUSE Linux Enterprise Desktop 15	✓	
Oracle Linux 8		✓
Amazon Linux 2		✓

Database

ESET Inspect supports two database servers: Microsoft SQL Server and MySQL.

Supported database server	Supported database versions	Supported database connectors
Microsoft SQL Server	2017, 2019	ODBC Driver for SQL Server 11, 13, 17
MySQL	5.7.33 or newer, 8.0.25 or newer	-

For installation instructions of MySQL Server, see [MySQL Installation on Windows](#) or [MySQL 5 on Linux System](#) or [MySQL 8 on Linux System](#).

For installation instructions of Microsoft SQL Server, [follow](#).

ESET Inspect supports two database servers: Microsoft SQL Server and MySQL.

i Clusters are not supported.

MySQL Installation on Windows

Prerequisites

- Download the MySQL server installer for Windows: <https://dev.mysql.com/downloads/windows/installer/>.
- Install Microsoft .NET Framework version 4 if required. Depending on the OS version.

Installation and configuration

1. Run the downloaded installer file to start the installation. Select the **Server-only** version in the **Choosing a Setup Type** screen and click **Next**.
2. For **Group Replication**, select Standalone MySQL Server / Classic MySQL Replication.
3. In the **Type and Networking** screen, select **Config Type** (we recommend using a **Dedicated Computer** type for the SQL server), type in your preferred **Port Number** (or use port 3306 by default), and click **Next**.
4. In the **Accounts and Roles** screen, set the **MySQL Root Password** and click **Add User** to create another MySQL user account secured with a password and with a DBA role assigned.

Remember the username and password you configured for a new user with the DB admin role, as it is used during the [installation of the ESET Inspect Server](#) process.

5. We recommend selecting **Configure MySQL Server as Windows Service** in the **Windows Service** screen and **Starting the MySQL Server at System Startup**. Otherwise, you will have to start the server manually each time (for example, using the `net start mysql` command from an administrative command prompt).
6. In the **Plugins and Extensions** screen, keep the default values.
7. In the **Apply Configuration** screen, click **Execute**. If the configuration steps are completed successfully, click **Finish**.
8. In the subsequent screen, click **Next**, and then **Finish**.

For editing my.ini file, please make sure it is saved in ANSI, not in UTF-8 format. We recommend using Notepad++ that will not change the file format after save.

You have to modify the **my.ini** file located in `C:\ProgramData\MySQL\MySQL Server X.X.` for further ESET Inspect Server installation. Before editing, backup the ini file.

Find the following variables and change their values. If a variable doesn't exist, add it at the end of **my.ini** file:

Increase the value of `open_files_limit` to at least 30000.

Change the value of `innodb_flush_log_at_trx_commit` to 0.

Set `innodb_buffer_pool_size` to 80% percent of the RAM. For instance, if the server has 16GB of RAM it should be set in the following way: `innodb_buffer_pool_size=12G`. The minimum value is 1G.

Set `innodb_log_file_size` to 50% of value of setting `innodb_buffer_pool_size`

Set `thread_stack=256K`

Set `log_bin_trust_function_creators=1`

Set `event_scheduler=ON`

Set `local_infile=1`

Set `wait_timeout=900`

Set `max_connections=300`

After saving these changes, restart the MySQL service.

Since ESET Inspect executes many SQL statements, [MySQL's general](#) and [MySQL's binary](#) log can be huge. Consider disabling the general and binary logs if they are not used. Consider also limiting their size or time of logging, using MySQL configuration parameters.

Moving the database to separate partition/machine

MySQL is the most crucial part of the ESET Inspect Server and can consume whole disk space. Due to operating system stability, we recommend moving the MySQL data and a temporary folder to the [dedicated partition](#) or to a [separate server machine](#).

When calculating the required disk space, we are tracking three folders:

- Database folder—The folder where MySQL or SQL Server stores ESET Inspect database
- Temporary database—The folder where MySQL or SQL Server stores temporary tables
- The ESET Inspect Server data folder—`C:\ProgramData\ESET\Inspect Server\Server` folder

If the database is installed on the same machine as the ESET Inspect Server, then ESET Inspect stops accepting new events when:

- There is less than 3% of free space on the disk with the database folder
- There is less than 3% of free space on the disk with the temporary database folder
- There is less than 5% of free space on the disk with the ESET Inspect Server data folder

If the ESET Inspect Server data folder and temporary database folder are on the same disk, ESET Inspect stops accepting new events if there is less than 10% of free space on this disk

If the database is located on the same machine as ESET Inspect, there must be at least 10% free disk space where the temporary folder is for the [Purge](#) to work. Any problems with the database purge are displayed as red markers on the Events processed chart on the Events Load Dashboard's tab.

MySQL Dedicated Partition

1. Stop MySQL Service.
2. Move or copy the Data folder onto the dedicated partition i.e. D:\.



For editing my.ini file, please make sure it is saved in ANSI, not in UTF-8 format. We recommend using Notepad++ that will not change the file format after save.

3. Edit **my.ini** file located by default in *C:\ProgramData\MySQL\MySQL Server X.X.* and search for the '# Path to the database root' string and change the path to the location of the new Data folder, for example, *D:\Data*. The folder has to be created before altering the my.ini file.
4. The Data folder has to be accessible by the Network Service. To add required permissions, follow these steps:
 - a. Go to **Start > Administrative Tools > Computer Management > System Tools > Local Users and Groups > Groups**.
 - b. Double-click **Users**.
 - c. Click **Add**.
 - d. Click **Locations**, select your computer node and click **OK**.
 - e. Type 'Network Service' into the 'Enter the object names' or click **Advanced**, then **Find Now** and select it from the **Search Results**.
5. Edit **my.ini** file located by default in *C:\ProgramData\MySQL\MySQL Server X.X.* Under [mysqld] search for "tmpdir". If missing, add the following line `tmpdir = D:/mysqltemp` where the "mysqltemp" is a custom folder. The folder has to be created before altering the my.ini file.
6. Start MySQL Service.

MySQL 5 on Linux System

Open the Terminal and run the following commands:

```
sudo apt-get update
```

```
sudo apt-get install mysql-server
```

```
mysql_secure_installation
```

```
Change the root password? [Y/n] n
```

```
Remove anonymous users? [Y/n] y
```

```
Disallow root login remotely? [Y/n] n
```

```
Remove test database and access to it? [Y/n] y
```

Reload privilege tables now? [Y/n] y

To install MySQL Workbench (optional), which is the GUI for the database:

```
sudo apt install mysql-workbench
```

Database setup

You need to set database user not only for localhost but also for the external connections and push the following SQL commands or via the cmd line.

cmd line (not Workbench):

```
mysql -u root -p
create user 'root'@'%' IDENTIFIED BY 'root';
ALTER USER 'root'@'%' IDENTIFIED WITH mysql_native_password BY 'admin.1';
ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'admin.1';
grant all privileges on *.* to 'root'@'%' with grant option;
```

We recommend changing the password, as "admin.1" is the default one. This password is required during ESET Inspect Server Installation. Through terminal, follow this [tutorial](#).

Through the Workbench, click:

- **Database > Connect to Database...** select database > **OK**
- Then **Server > Users and Privileges** > Select **root%**—set the password and confirm it

Open the Terminal and execute the following command to copy mysql.service file:

```
sudo cp /lib/systemd/system/mysql.service /etc/systemd/system/
```

Open the `/etc/systemd/system/mysql.service` in texteditor (or nano, pico, vi ...) and add following lines:

```
LimitNOFILE=30000
LimitMEMLOCK=30000
```

Save the file and reload the system configuration by the following command:

```
sudo systemctl daemon-reload
```

Now you need to modify `/etc/mysql/mysql.conf.d/mysqld.cnf` file (where are the db params).

Open file in texteditor or nano, pico, vi ... and add following lines under section [mysqld]:

```
sudo /etc/mysql/mysql.conf.d/mysqld.cnf  
  
lower_case_table_names = 1  
  
open_files_limit = 30000  
  
bind-address = IP_OF_THIS_MACHINE, BUT NO 127.0.0.1  
  
thread_stack = 256K
```

*bind-address – default value is 127.0.0.1. You have to set this address to IP of the machine where MySQL is running. In case of incorrect IP, ESET Inspect Installation cannot connect to MySQL.

Insert following parameters to the part InnoDB

```
innodb_buffer_pool_size=4G  
innodb_flush_log_at_trx_commit=0  
innodb_log_file_size=2G
```

*innodb_buffer_pool_size–set to 80% of the RAM size of MySQL machine

*innodb_log_file_size –set to 40% - 60% of the innodb_buffer_pool_size value

Add to the end these lines

```
log_bin_trust_function_creators=1  
event_scheduler = ON
```

Restart MySQL to load the new parameters:

```
sudo service mysql restart
```

Debugging Database parameters

To verify the database parameters, run MySQL via Terminal and execute the query for specific parameter value:

```
mysql -u root -p  
show variables like '%lower_case_table_names%';
```

Verify the status of the MySQL Service

Open the terminal, and type in the command.

```
systemctl status mysql.service
```

MySQL Service runs when the reported state is: active (running).

Sources

MySQL Installation	https://www.cyberciti.biz/faq/howto-install-mysql-on-ubuntu-linux-16-04/
Warning: World-writable config file '/etc/mysql/my.cnf' is ignored	https://stackoverflow.com/questions/32133353/unable-to-connect-to-mysql-database-in-ubuntu
Open_files_limit	https://support.plesk.com/hc/en-us/articles/213393029-MySQL-values-open-files-limit-and-max-connections-are-not-applied
MySQL command line commands	https://dev.mysql.com/doc/refman/5.5/en/getting-information.html

MySQL 8 on Linux System

Open the Terminal and run the following commands:

```
cd ~/Downloads--use this folder or any other that suits you. Installer will be downloaded here
```

```
wget https://dev.mysql.com/get/mysql-apt-config\_0.8.10-1\_all.deb
```

```
sudo dpkg -i mysql-apt-config_0.8.10-1_all.deb
```

The first row should say **mysql-8.0**, the second **Enabled**, and the third **Disabled** in the window that appears.

Continue by confirming the **Ok** at the bottom of the window.

Continue with the following commands:

```
sudo apt-get update
```

```
sudo apt-get install mysql-server
```

Type the root password.

In the next window, select the option **Use Legacy Authentication Method**.

Continue entering commands:

```
mysql_secure_installation
```

```
Would you like to validate password component? [Y/n] n
```

```
Change the root password? [Y/n] n
```

```
Remove anonymous users? [Y/n] y
Disallow root login remotely? [Y/n] n
Remove test database and access to it? [Y/n] y
Reload privilege tables now? [Y/n] y
```

To install MySQL Workbench (optional), which is the GUI for the database:

```
sudo apt install mysql-workbench
```

Database setup

You need to set database user not only for localhost but also for the external connections and push the following SQL commands or via the cmd line.

cmd line (not Workbench):

```
mysql -u root -p
create user 'root'@'%' IDENTIFIED BY 'root';
ALTER USER 'root'@'%' IDENTIFIED WITH mysql_native_password BY 'admin.1';
ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'admin.1';
grant all privileges on *.* to 'root'@'%' with grant option;
```

We recommend changing the password, as "admin.1" is the default one. This password is required during ESET Inspect Server Installation. Through terminal, follow this [tutorial](#).

Through the Workbench, click the:

- **Database** -> **Connect to Database...** select database -> **OK**
- Then **Server** -> **Users and Privileges** -> **Select root%** —set the password and confirm it

Open the Terminal and execute following command to copy mysql.service file:

```
sudo cp /lib/systemd/system/mysql.service /etc/systemd/system/
```

Open the `/etc/systemd/system/mysql.service` in texteditor (or nano, pico, vi ...) and add following lines:

```
LimitNOFILE=30000
LimitMEMLOCK=30000
```

Save the file, reload the system configuration by the following command:

```
sudo systemctl daemon-reload
```

Now you need to modify `/etc/mysql/mysql.conf.d/mysqld.cnf` file (where are the db params).

You may need to set permission to configuration file to (temporarily):

```
sudo chmod 777 /etc/mysql/mysql.conf.d/mysqld.cnf
```

Open file in texteditor or nano, pico, vi ... and add following lines under section `[mysqld]`:

```
bind-address = xxx.xxx.xxx.xxx
innodb_flush_log_at_trx_commit=0
innodb_buffer_pool_size=2G
innodb_log_file_size=1G
thread_stack=256K
log_bin_trust_function_creators=1
event_scheduler = ON
sql-mode="STRICT_TRANS_TABLES,NO_ENGINE_SUBSTITUTION"
local_infile = 1
```

*`bind-address` – default value is 127.0.0.1. Set this address to the machine's IP where MySQL is running. If the incorrect IP address is used, ESET Inspect Installation cannot connect to MySQL.

Restart MySQL to load the new parameters:

```
sudo service mysql restart
```

Verify the status of the MySQL Service

Open the terminal, and type in the command.

```
systemctl status mysql.service
```

MySQL Service is running when the reported state is: active (running).

Sources

MySQL Installation	https://www.cyberciti.biz/faq/howto-install-mysql-on-ubuntu-linux-16-04/
Warning: World-writable config file '/etc/mysql/my.cnf' is ignored	https://stackoverflow.com/questions/32133353/unable-to-connect-to-mysql-database-in-ubuntu
Open_files_limit	https://support.plesk.com/hc/en-us/articles/213393029-MySQL-values-open-files-limit-and-max-connections-are-not-applied
MySQL command line commands	https://dev.mysql.com/doc/refman/5.5/en/getting-information.html

Microsoft SQL Server Installation



We recommend using the Microsoft SQL Server Enterprise/Standard edition, but keep in mind that it requires a license. Microsoft SQL Server Express version is not supported by ESET Inspect.

Follow these steps (MSSQL 2017):

1. After starting the MSSQL installer choose the **Custom** installation process.
2. You can keep the default installation path or choose a different one. Click **Install**.
3. After downloading the installation files, the **SQL Server Installation Center** appears. If not, start it up.
4. Choose the **Installation** menu from the left-side panel.
5. Choose a **New SQL Server stand-alone installation or add features to an existing installation** to start the installation process.
6. Accept the **License terms** and click **Next**.
7. Select the check box to **Use Microsoft Update to check for updates**. Click **Next**.
8. In the **Install Rules** window, click **Next**.
9. Select the **Database engine Services** and **SQL Client connectivity SDK** check box in the **Feature Selection** window. Click **Next**.
10. In the **Instance Configuration** window, you can keep the default value and click **Next**.
11. In the **Server Configuration** window, click **Next**.
12. In the **Database Engine Configuration** window, select the **Mixed Mode** option.
13. Type in and confirm the password for the default "sa" user (SQL Server system administrator). You can use this user during the ESET Inspect Server installation process or create a [custom user](#) with sufficient privileges.
14. Click **Add Current User** button.
15. Click **Next**.
16. Click **Install**.

Turn off/create firewall exception and enable TCP/IP communication for MSSQL to fully function ESET Inspect with MSSQL. Otherwise, the ESET Inspect Server installation ends up with an error.

1. Open **SQL Server Configuration Manager**.
2. Click **SQL Server Network Configuration** in the left-side menu.
3. Click **Protocols for MSSQLSERVER**.
4. Ensure that the **TCP/IP** protocol is in status **Enabled** (it should be by default).
5. Click **SQL Server Services** from the left-side menu.
6. In the right-side menu, right-click the **SQL Server (MSSQLSERVER)** service, and from the context menu, choose **Restart**.
7. Check the Windows Services that the SQL Server service is running. Otherwise, the ESET Inspect Server will not work.

Now is the MSSQL Server ready for the ESET Inspect Server to be installed.

For safety purposes, we recommend using a different user with the necessary privileges:

1. Download [MSSQL Server Management Studio](#) and install it on the MSSQL Server machine.
2. Log into the server.
3. Server type: **Database Engine**, select the server name used on that server, Authentication: **Windows Authentication**.
4. Click **Connect**.
5. Right-click the **Security** folder on the left-side menu. Choose **New** from the context menu > **Login**.
6. Type in the **Login name** with your choice. Choose **SQL Server Authentication**. Fill in the **Password** and confirm it.
7. Deselect **Enforce password expiration**.
8. In the left-side menu of the same window, click the **User Mapping**. From the list of users mapped to this login, choose a **master** and in the **Database role membership** list, choose **db_owner** and keep checked **public** role.
9. In the left-side menu of the same window, click the **Securables**. Click the **Search** button and select the third option **The server....** Scroll down the **Permission for...** list and check the **Grant** box for **View Server State**.
10. In the left-side menu, click the **Server Roles**. From the server roles list, choose the **dbcreator** and leave the **public** checked.
11. Click **OK**.

Now you can proceed with the ESET Inspect Server installation with this new custom SQL user.

Moving the database to separate partition/machine

MSSQL is the most crucial part of the ESET Inspect Server and can consume whole disk space. Due to operating system stability, we recommend moving the MSSQL data and a temporary folder to the dedicated partition or a [separate server machine](#).

Follow these steps:

1. Run SQL Server Management Center.
2. In Object Explorer, right-click the name of the server.
3. In the context menu, click **properties**.
4. Select **Database Settings** from the left side menu.
5. In the **Database Default Location**, change the **Data** path.

When calculating the required disk space, we are tracking three folders:

- Database folder—The folder where MySQL or SQL Server stores ESET Inspect database
- Temporary database—The folder where MySQL or SQL Server stores temporary tables
- The ESET Inspect Server data folder—*C:\ProgramData\ESET\Inspect Server\Server folder*

If the database is installed on the same machine as the ESET Inspect Server, then ESET Inspect stops accepting new events when:

- There is less than 3% of free space on the disk with the database folder
- There is less than 3% of free space on the disk with the temporary database folder
- There is less than 5% of free space on the disk with the ESET Inspect Server data folder

If the ESET Inspect Server data folder and temporary database folder are on the same disk, ESET Inspect stops accepting new events if there is less than 10% of free space on this disk

If the database is located on the same machine as ESET Inspect, there must be at least 10% free disk space where the temporary folder is for the [Purge](#) to work. Any problems with the database purge are displayed as red markers on the Events processed chart on the Events Load Dashboard's tab.

Supported Web Browsers and ESET Products

- Google Chrome
- Mozilla Firefox
- Safari

- Edge (based on Chromium) 83.0.x or newer

 Use the latest version of browsers.

ESET Enterprise Inspect Web Console

ESET Inspect Web Console is a [single-page application](#) that communicates with the ESET Inspect Server via REST calls.

 The minimum screen resolution supported by the Web Console is 1280x768.

Supported ESET Products

 ESET Inspect is at the moment compatible with ESET PROTECT on-premises, not ESET PROTECT Cloud.

- ESET Endpoint Security 9.0.2046.0 or newer.
- ESET Endpoint Antivirus 9.0.2046.0 or newer.
- ESET Endpoint Security for macOS 6.11.202.0 or newer
- ESET Endpoint Antivirus for macOS 6.11.202.0 or newer
- ESET Endpoint Antivirus for Linux v9 or newer
- ESET Mail Security for Microsoft Exchange Server 8.0.10019.0 or newer
- ESET Mail Security for IBM Lotus Domino 8.0.14010.0 or newer
- ESET Server Security for Microsoft Windows Server 8.0.12011.0 or newer
- ESET Server Security for Linux v9 or newer
- ESET File Security for Microsoft Sharepoint Server 8.0.15006.0 or newer

- ESET PROTECT 9.0.10.6 or newer

Because the ESET Inspect can show some malware/scripts, ESET Endpoint Security / ESET Endpoint Antivirus can sometimes show ESET Inspect as a threat. Follow these steps to prevent ESET Endpoint Security / ESET Endpoint Antivirus from blocking ESET Inspect:

- In ESET Endpoint Security and ESET Endpoint Antivirus settings go to **Web and Email->Web access protection->Url address management->Address List->List of addresses excluded from content scan->Edit**
- If not present, add the Hostname/IP Address of the ESET Inspect Server and add /* at the end of the string. You can use the [ESET PROTECT policy](#) to deploy such a setting to multiple ESET Endpoint Security / ESET Endpoint Antivirus.

 Earlier versions of ESET products have limited functionalities.

The ESET PROTECT Permission Settings

In the ESET PROTECT, it is necessary to create a [Static Group](#), where security engineers have access and full permission rights.

We recommend using pre-defined permission sets in the ESET PROTECT. You can create custom permission sets (see the [Permission Sets](#) Online Help topic).

To create an ESET PROTECT Native User, [follow](#).

For the **EI_SERVER_INSTALLER** Web Console access user, the permission set should be:

Enterprise Inspector server permission set



The user with this permission set is recommended to be used during the ESET Inspect Server installation process. If there is an error, logs with diagnostics data are created too, which will help solve the problem better.

For the **EI_ADMIN** Web Console access user, the permission set should be:

Enterprise Inspector user permission set

For the **EI_READ_ONLY** Web Console access user, the permission set should be:

Enterprise Inspector reviewer permission set

ESET Inspect Server Installation

There are several possible ways to install the ESET Inspect Server:

- Using [Graphical User Interface](#) provided by the installer. A recommended way of installation.
- Using [ESET PROTECT Deployment](#)



Keep in mind that upgrade will need additional free space depending on number of endpoints. It will never need more space than the database size. Exact space requirements are checked by installer.



When the ESET Inspect Server service starts, the following process function executes:

Purge - Clean old data from the database. By default, it executes at midnight, checks all the data older than 30 days, and deletes them (events, processes, computers that do not send any data for 30 days). You can change the interval of the purge in the Server settings tab.

When you lower the time frame set for purge, it takes several days to clean up old data before the new setting takes effect.

GUI - Mode Installation

Prerequisites:



Make sure that you fulfilled the [requirements](#) before proceeding with the ESET Inspect Server installation. We recommend that you do not install the ESET PROTECT Server and ESET Inspect Server on the same machine.



For installation purposes, use only the user that is created without the Two Factor Authentication option enabled.



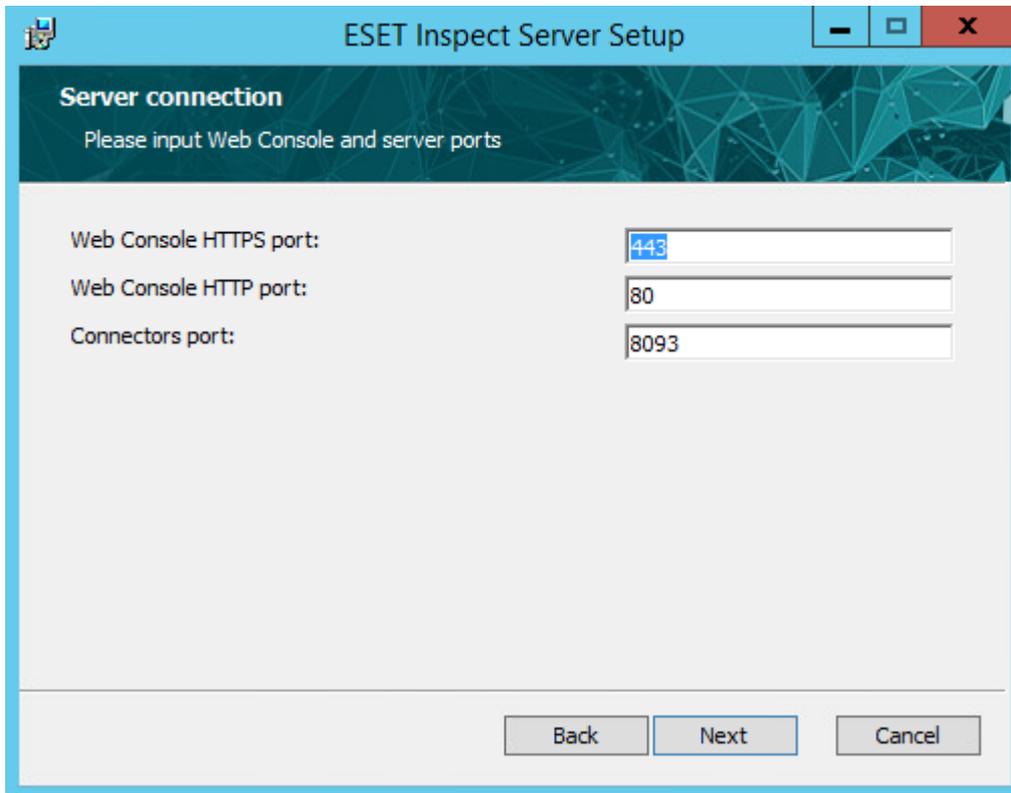
Applies for users upgrading from version 1.5 of ESET Enterprise Inspector. Since version 1.6 of ESET Enterprise Inspector there is a feature, "Optional Rules". We have a separate group of rules that are not enabled by default, yet they are still installed by the installer but in a disabled state. Users can decide on these rules if they suit their environment and enable them manually. Having this feature, we have decided to move some of the existing rules to the "Optional" category. It means some of the existing rules enabled in your environment may, after the installation, become disabled because they are updated with the new version of the rule, which is optional now. Please check disabled rules after the upgrade from previous versions whether some of the rules you want to have enabled were not disabled by this mechanism.

- ESET Inspect Server has a built-in HTTP/S server and is listening to ports 80(HTTP) or 443(HTTPS). You can change the port settings during the installation process.
- The server needs to have a connection to [LiveGrid®](#).
- Ensure that you have a proper host, port number, login, and password to the MySQL database. The user must be able to create a new database and tables.

ESET Inspect Server installation using GUI (only on the server machine)

Follow the steps below to configure and start your ESET Inspect Server:

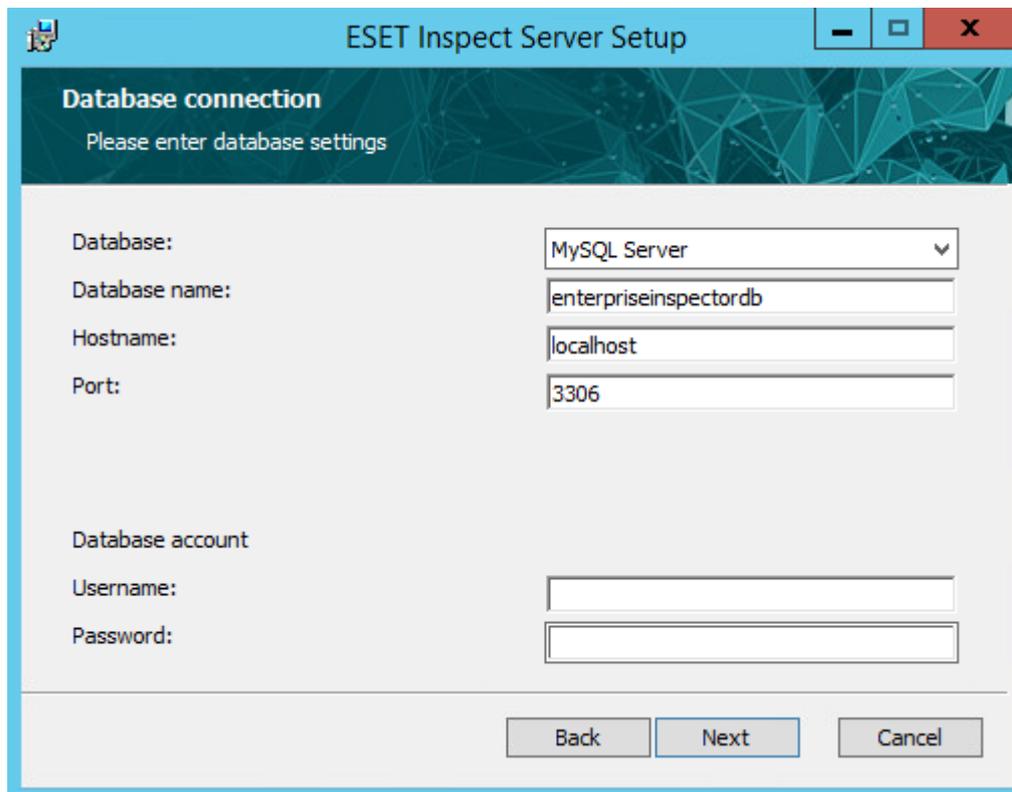
1. Execute the downloaded installer [file ei_server_nt64_ENU.msi](#).
2. Read the End User License Agreement, select the check box to accept the License Agreement terms (without it, it is not possible to continue with the installation process), or read the Privacy Policy at the left lower corner of the window. Click **Next** to proceed with the installation.
3. Choose whether you want to participate in ESET Customer Improvement Program by selecting the check box, click **Next** to proceed with the installation. ([Telemetry information](#))
4. Choose the destination directory where you want ESET Inspect Server to be installed and click **Next** to proceed with the installation. You can change the path directly by typing the destination in the command path or by clicking the **Change** button and navigating to the desired folder.
5. Type in the **Web Console HTTPS port** number (by default, it is 443).
6. Type in the **Web Console HTTP port** number (by default, it is 80).
7. Type in the **Connectors port** number (by default, it is 8093, bear in mind that if a different port number is used, you have to change it also during the connector installation process or by [ESET PROTECT policy](#)).
8. Click **Next**.



9. Select the type of the **Database** that you will use for the ESET Inspect Server:

a. In the case of **MySQL**, type in the **Database name** (by default enterpriseinspectordb), **Hostname** (by default localhost, or use the hostname or the IP Address if the database is seated on a different machine than the ESET Inspect Server), **Port** of the database (filled during the database installation process, by default 3306 for MySQL). Fill in the **Username** and **Password** of the database account with sufficient [access rights](#). Click **Next**.

b. If the database type you selected at the top is **MS SQL Server**, type in the **Database name** (by default enterpriseinspectordb), **Hostname** (by default localhost, or use the hostname or the IP Address if the database is seated on a different machine than the ESET Inspect Server), **Port** of the database (filled during the database installation process, by default 1433 for MSSQL). Then choose whether you want to use **Use Named Instance** or not by checking the check-box or unchecking it. This will allow you to use a custom database instance, and you can set it in the **Hostname** field in the form HOSTNAME\DB_INSTANCE, for example, 192.168.0.10\EISQL. For the clustered database, use only the clustername. If this option is selected, you cannot change which port will be used, and the system will use default ports determined by Microsoft. Select the **ODBC driver** that is actually installed on the Server machine where the ESET Inspect Server is going to be installed (if not present, install it following the [ODBC installation process](#)). Fill in the **Username** and **Password** of the database account with sufficient [access rights](#). Click **Next**.



10. The installer will check the database parameters. If some parameters are missing, follow the instructions displayed on the screen. The installer will check the connection to the database. It may take a few seconds to complete. A dialog box explaining the error appears (it may appear behind other windows). If no problems occur, the next screen is displayed. If the database was already created, you are asked to check whether you want to **Keep the data and upgrade the database to the newest format** or to **Delete the data and create new database from scratch**. Click **Next**.

 For editing my.ini file, please make sure it is saved in ANSI, not in UTF-8 format. We recommend using Notepad++ that will not change the file format after save.

11. If you have selected the Delete option or installed the ESET Inspect Server on a fresh MySQL database, the window with requirements for my.ini file shows up. Make changes as requested, click **Check**. Click **Next**.

12. Select [the type of ESET Inspect user](#). Click **Next**.

13. The default [Detection Rules Set](#) is selected based on [the type of ESET Inspect](#). This can also be changed now or after the first log in to the Web Console in a pop-up that appears or by the filtering rules mentioned at the end of this [topic](#). Click **Next**.

14. The default [Data Collection](#) option is selected based on the ESET Inspect user selected type. Click **Next**.

15. Select the period for detection storage and low-level data storage ([Data Retention](#)). Click **Next**.

 A low-level event is something a process does. So, write a file, do a DNS lookup, create a registry entry, etc. These can be seen in the Events view.

 For installation purposes, use only the user that is created without the Two Factor Authentication option enabled.

16. In the next window, fill in the **ESET PROTECT hostname** or IP address, ESET PROTECT port for the data connection (by default 2223), ESET PROTECT user, and ESET PROTECT password (we recommend using EI_SERVER user, which permission settings you will find in [ESET PROTECT Permission Settings](#)). Choose the protocol you want to use for communication (we recommend **HTTPS** as a secure option) and **ESET PROTECT port of web console** communication (by default 443). Click **Next**. If you entered the

wrong credentials or IP address, the error message window appears. Repair invalid data entry and continue.

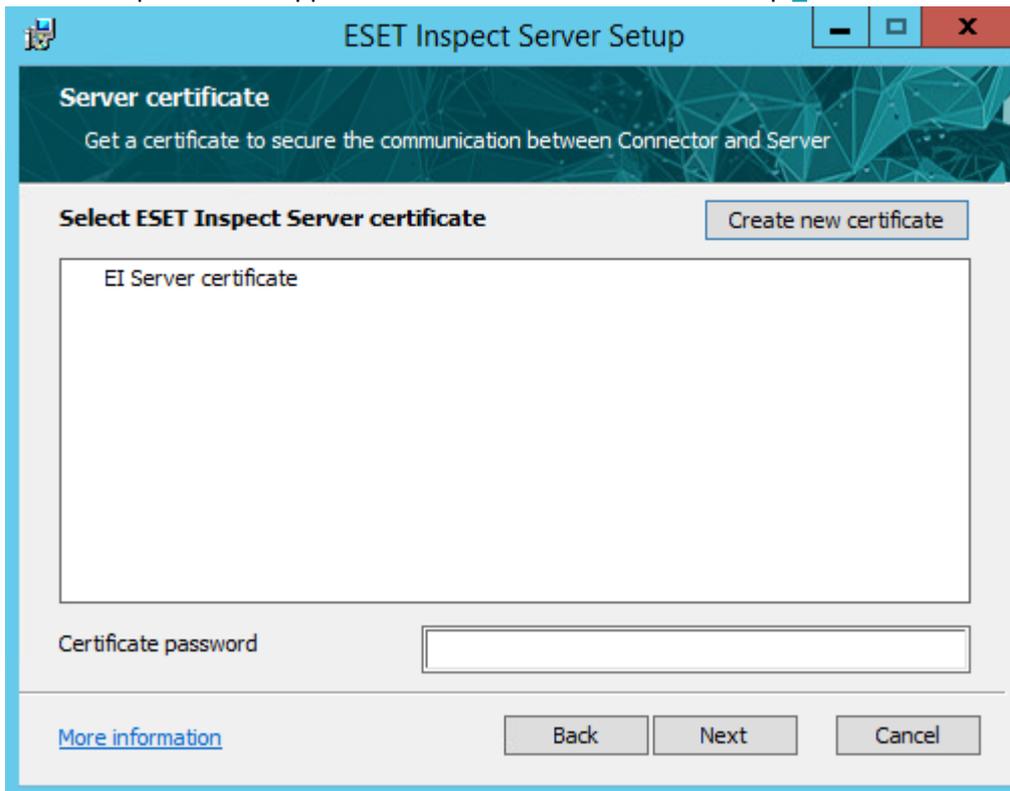
17. Accept the Certification Authority file.

18. Continue with one of the available options:

- a. [Get the certificate from ESET PROTECT](#)
- b. [Import the certificate from a file](#)

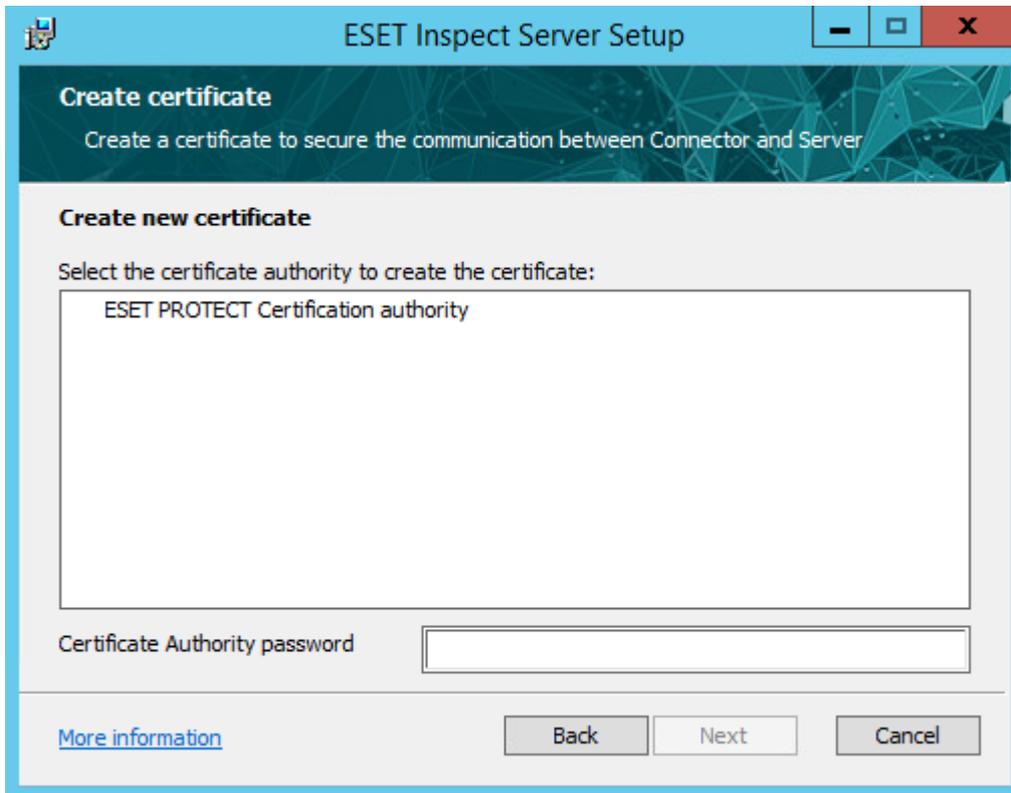
Get the certificate from ESET PROTECT

1. The list of the ESET Inspect Server certificates displays, where you can select the one desired, enter the Certificate password if applied and click **Next**. Continue with step 5.

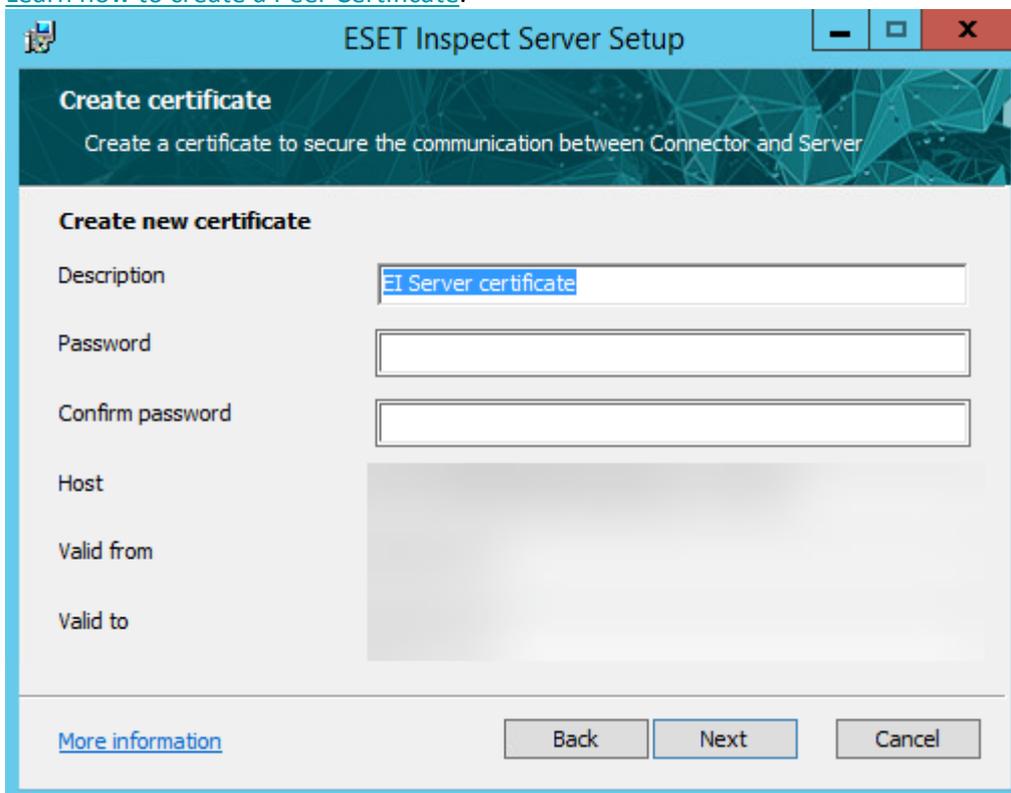


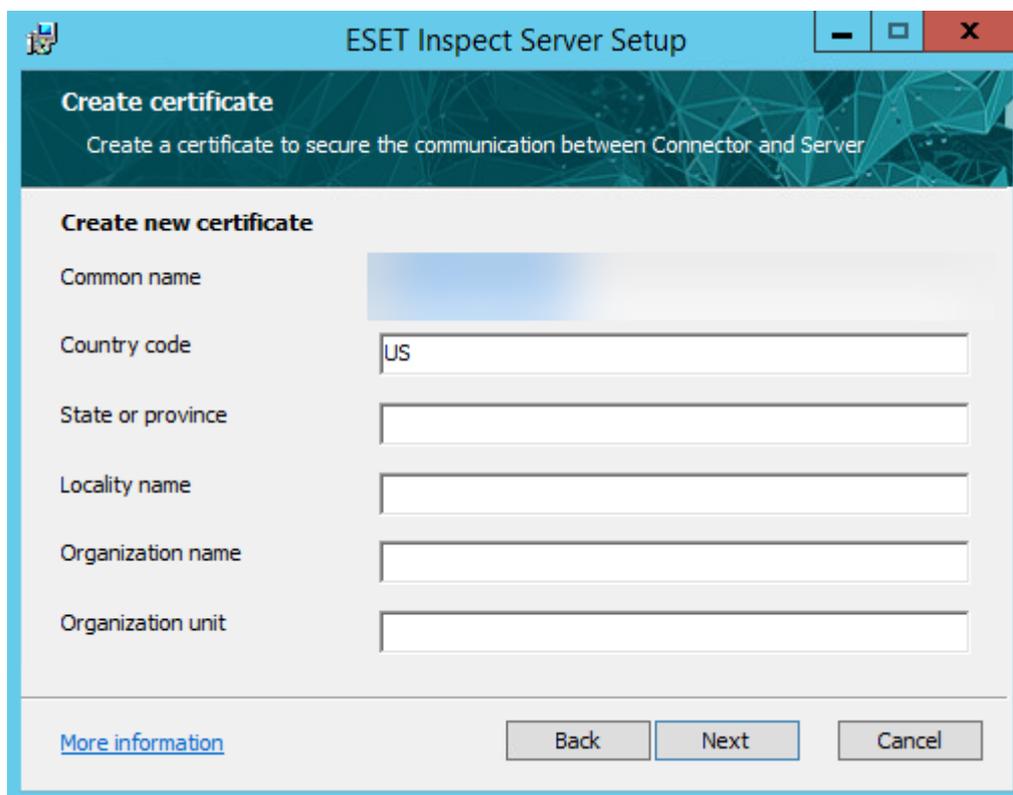
2. No certificates are displayed here if no ESET Inspect Server certificate is available in ESET PROTECT. Generate a new certificate by clicking **Create new certificate**.

3. Select a Certificate authority, enter the corresponding password if required, click **Next**.



4. Fill in the required details. The value of **Description** is used when displaying the list of available server certificates. Parameters like **Host**, **Valid from**, **Valid to** are pre-filled automatically. Click **Next**, and **Next**. You can also create the certificates in the ESET PROTECT itself. [Learn how to create a Certificate Authority](#). [Learn how to create a Peer Certificate](#).





5. Continue with one of the available options for implementing the essential certificate for HTTPS/SSL connection between the ESET Inspect Web Console and web browser:

- a. [Get the ESET Inspect Web Console certificate from ESET PROTECT](#)
- b. [Import the certificate from a file](#)
- c. **Use the same certificate as for Connector/Server communication.** After choosing this option, click the **Install** button to start the installation process.

The HTTPS/SSL certificate has to be signed using the SHA-2 algorithm, or if created in ESET PROTECT, the Advanced security has to be enabled (In ESET PROTECT navigate More -> Server Settings -> Connection).



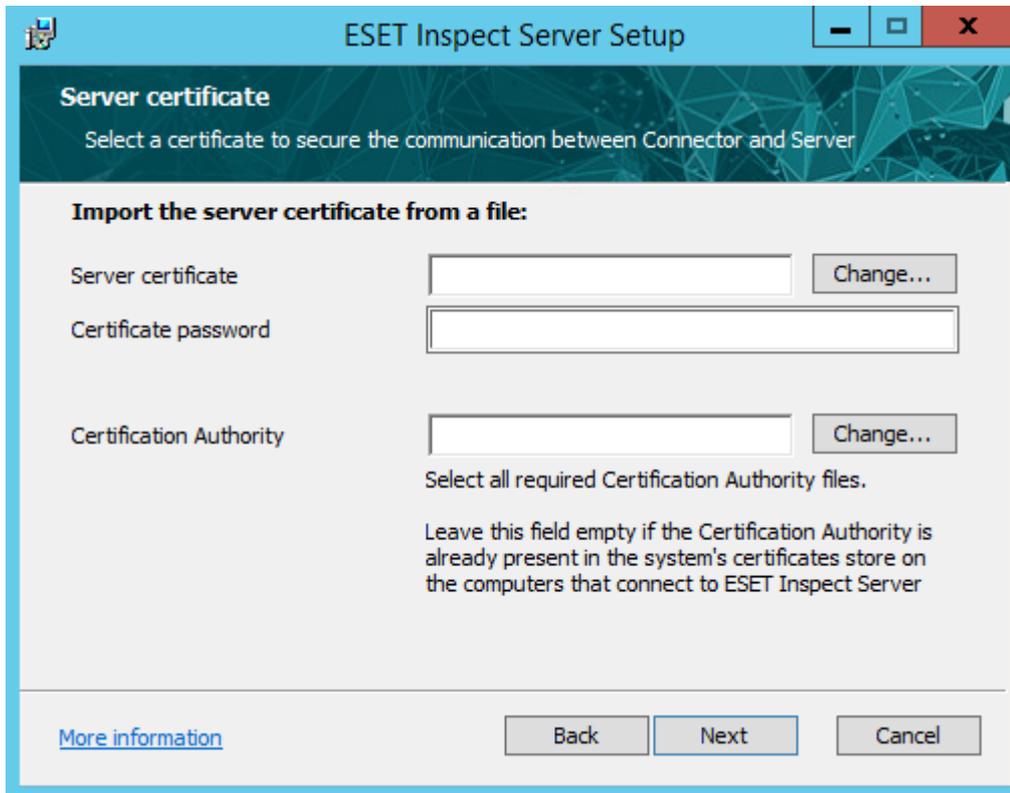
The Certification Authority used to sign the certificate must be present in the [Web Browser HTTPS/SSL certification list](#).

If these requirements are not met, a web browser will display a warning when connecting to the ESET Inspect Web Console.

6. If there is a problem with the installation, follow the instructions in the dialog box that appears. Click **Finish** to complete the installation.
7. Open **https://localhost** in a web browser to log into ESET Inspect. If you want to access ESET Inspect from a different device, write the IP Address or hostname of the ESET Inspect Server in a browser.
8. Type in the username and password of the ESET PROTECT user that has the correct [ESET PROTECT Permission Settings](#). An Administrator and User account with the following [ESET PROTECT Account Settings](#) are needed. For ESET PROTECT account creation instructions, see the [Admin Access Rights](#) topic.

Import the server certificate from file

Fill in the path to the ESET Inspect Server Certificate (.PFX file) that was created in ESET PROTECT Server or use the **Change** button to manually navigate to the file location, fill in the certificate password if applicable. Fill in the path to Certification Authority or use the **Change** button to navigate to the file location manually. Click **Next**.



Continue with one of the available options for implementing the essential certificate for HTTPS/SSL connection between the ESET Inspect Web Console and web browser:

1. [Get the ESET Inspect Web Console certificate from ESET PROTECT](#)
2. [Import the certificate from a file](#)
3. **Use the same certificate as for Connector/Server communication.** After choosing this option, click the **Install** button to start the installation process.
4. If there is a problem with the installation, follow the instructions in the dialog box that appears. Click **Finish** to complete the installation.
5. Open **https://localhost** in a web browser to log into ESET Inspect. If you want to access ESET Inspect from a different device, write the IP Address or hostname of the ESET Inspect Server in a browser.
6. Type in the username and password of the ESET PROTECT user that has the correct [ESET PROTECT Permission Settings](#). An Administrator and User account with the following [ESET PROTECT Account Settings](#) are needed. For ESET PROTECT account creation instructions, see the [Admin Access Rights](#) topic.

By default, certificates created by the ESET PROTECT use * (an asterisk) as a hostname (wildcard certificate). ESET Inspect does not support such certificates. The user has to use the real hostname of the ESET Inspect Server.

The certificates have to be provided in **PKCS #12** format.

PKCS #12 is a file format, used for storing many cryptography objects as a single file - like certificates or certification authorities. Usually files which use **PKCS #12** have extension ".pfx" or ".p12".

certificates cannot have only "*" (one asterisk, nothing more) in place for a host, in the following places:

- CN (common name)
- alternative names (from extension {{Subject Alternative Name from }}RFC5280)
- CN in additional certificates (PKCS #12 can hold additional certificates)



- alternative names in additional certificates for example:

"*" is not allowed.

"*.yourcompany.com" is allowed

"yourcompany.*.hq.com" is allowed.

Another file format, frequently used in cryptography, is X509. Files using those format usually have extension ".der" or ".pem".

In ESET Inspect certificates are kept in ".pfx" files, and certification authorities are kept in ".der" files.

Mandatory parameters for creating Peer Certificate are:

- Product: "**ESET Inspect Server**"
- Host: Use a real IP Address of the ESET Inspect Server

In case you want to connect ESET Inspect Connector from another network, add another IP or hostname by separating it with space, comma, or semicolon. For example: HOST 192.168.20.22;10.1.183.88



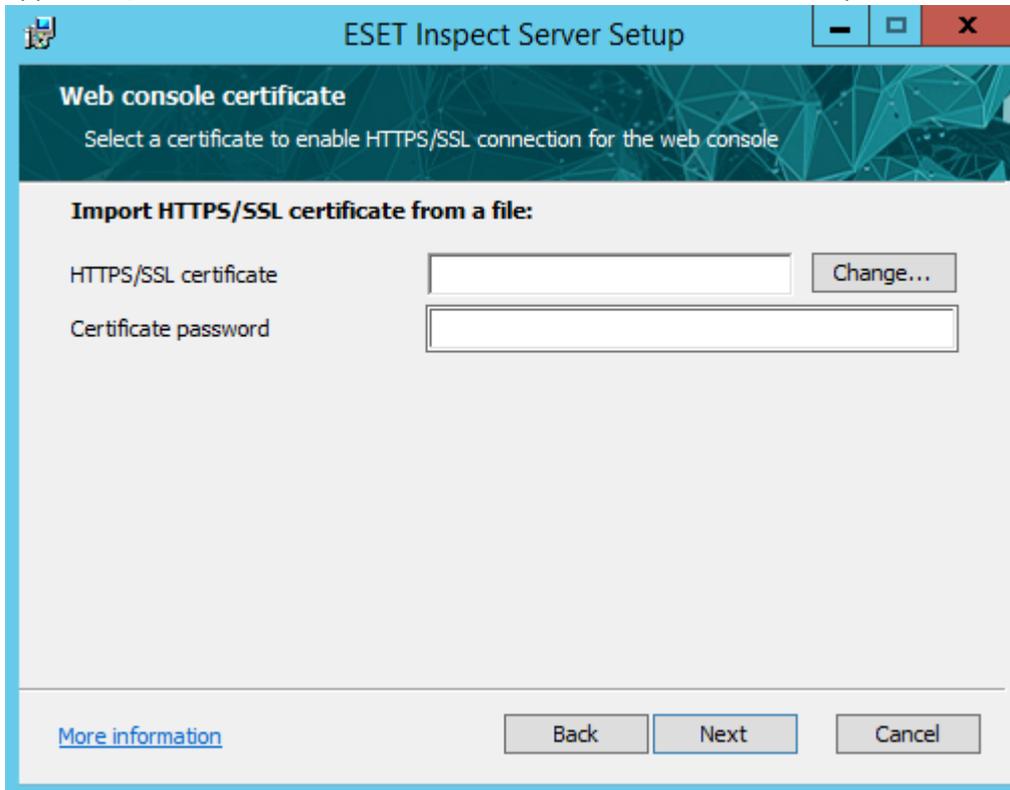
Do not use the semicolon symbol ; in the file name or the folder name in the path of the certificate. It is used to separate multiple certificates if applicable.

Get the ESET Inspect Web Console certificate from ESET PROTECT

1. The list of ESET Inspect Web Console certificates displays, where you can select the one desired, type in the Certificate password if applied and click **Next**.
2. If you do not have the ESET Inspect Web Console certificate created yet in ESET PROTECT, through the installer, you can generate the certificate by clicking the **Create new certificate** button in the upper right corner.
3. Here you see the Certificate Authorities available on the ESET PROTECT Server.
4. Select desired Certificate authority, fill in the password if applied, and click **Next**.
5. Fill in the **Description** (you will see this string in the list of ESET Inspect Web Console certificates shown in the previous step) and password if desired. Other parameters can be changed if needed but are pre-defined and filled with, for example, the server's IP address where you are installing the ESET Inspect Server. Click **Next**, and **Next**. After choosing this option, click the **Install** button to start the installation process. You can also create the certificates in the ESET PROTECT itself. [Learn how to create a Certificate Authority](#). [Learn how to create a Peer Certificate](#).
6. If there is a problem with the installation, follow the instructions in the dialog box. Click **Finish** to finish the installation.
7. Open **https://localhost** in a web browser to log into ESET Inspect. If you want to access ESET Inspect from a different device, write the IP Address or hostname of the ESET Inspect Server in a browser.
8. Type in the username and password of the ESET PROTECT user that has the correct [ESET PROTECT Permission Settings](#). An Administrator and User account with the following [ESET PROTECT Account Settings](#) are needed. See the [Admin Access Rights](#) topic for ESET PROTECT account creation instructions.

Import ESET Inspect Web Console certificate from file

1. Fill in the path to the ESET Inspect Web Console certificate (.PFX file) that was created in ESET PROTECT Server or use the **Change** button to navigate to the file location manually. Fill in the password (if applicable). Click **Next**. Click the **Install** button to start the installation process.



2. If there is a problem with the installation, follow the instructions in the dialog box. Click **Finish** to complete the installation.
3. Open **https://localhost** in a web browser to log into ESET Inspect. If you want to access ESET Inspect from a different device, write the IP Address or hostname of the ESET Inspect Server in a browser.
4. Type in the username and password of the ESET PROTECT user with the correct [ESET PROTECT Permission Settings](#). An Administrator and User account with the following [ESET PROTECT Account Settings](#) are needed. See the [Admin Access Rights](#) topic for ESET PROTECT account creation instructions.

Web browser HTTPS/SSL certificate list

Download the Authority Public key (.DER file) to the PC/Server, from which you are going to access the ESET Inspect Web Console.

The following procedure will suit the most used web browsers. For Mozilla Firefox, use the second one below:

1. Double-click the DER file.
2. Click **Install Certificate** -> **Local Machine** -> **Place all certificates in the following store** -> **Trusted Root Certification Authorities**.
3. To verify that the certificate was installed successfully, open **Microsoft Management Console** by pressing **Win + R** and type in "MMC".
4. In MMC go **File** -> **Add/Remove Snap-in...** -> **Certificates** -> **Add** -> **My user account** -> **Finish**, do the same for the **Computer Account** and click **OK**.

5. The certificate installed in the first step should be visible in sections:

a. **Certificates - Current User -> Trusted Root Certificates -> Certificates**

b. **Certificates (Local computer) -> Trusted Root Certificates -> Certificates**

Procedure for Mozilla Firefox

This procedure should work for the most recent Mozilla Firefox version.



1. Click  icon.

2. Go **Options -> Privacy & Security -> Certificates -> View Certificates -> Authorities -> Import**. Select desired **Authority Public key -> Open -> Trust this CA to identify websites -> OK**.

The type of ESET Inspect user

There are three types of ESET Inspect users that we think of:

- **Security Operations Center (SOC)**—is recommended to the center with its staff, usually at least five to ten people, consisting of Security Engineers or Analysts. They can work with large amounts of data and analyze it continuously daily. They want to have maximum visibility and do not mind spending additional effort. They also have the skills to effectively and efficiently analyze detections and other data on the network. We're configuring the product to provide as much information as possible.
- **Security-focused IT**—usually have several IT Administrators, of which some can focus on IT Security. Typically found in Enterprises before the organization establishes its own SOC. They can dedicate time or even people to security but not as much as an entire SOC. We're limiting information not directly related to threats to prevent an overload of information.
- **IT Administrators**—work alone or with only a few others and have generalist roles, without time to dedicate to security. They deal with IT Security as one of many topics and may not have time for it during a given week. We limit the amount of information to the most severe issues to prevent an overload of information.

Rules Sets

This dialog controls which new detection rules are enabled after the installation.

New means added with the new install pack and in the **Web Console** in the **Admin > Detection Rules** tab can be found after filtering by **Tag New**.

When updating the ESET Inspect Server, if ESET updated the default rule, it is marked with a tag **Updated**.

- **Enable detection rules with Threat, Warning, and Information severity**—ideal for advanced users who want complete visibility and are already familiar with ESET Inspect, which prefer to customize everything manually.
- **Enable detection rules with Threat and Warning severity**—ideal for skilled users who want to do Threat Hunting and evaluate malicious and potentially malicious events.
- **Enable only detection rules with Threat severity**—ideal for new users who know cyber attacks but want to evaluate only confirmed threats.

- **Disable all detection rules**—ideal for new users with no previous experience with EDR solutions and start with an analysis of confirmed malware and attacks detected and blocked by the ESET Endpoint product.

The more severities are enabled, the more sensitive the product reacts to threats and generates more detections.

Rules can be enabled or disabled at any time in the **Admin > Detection rules** tab of the product:

- The first option can be achieved by filtering the view by severity, enabling all three Threat, Warning, and Info.
- The second option can be achieved by filtering the view by severity, enabling Warning, Info.
- The third option can be achieved by filtering the view by severity, enabling Info.

After selecting the filter of your choice, choose all rules by clicking the check box on the left side of the first row (Rule Name (count)). Click the **Enable/Disable** button.

Data Collection

Data collection settings impact how data is stored in the database.

Regardless of the option the user selects, all low-level raw events are being collected on the endpoints, sent to the server and processed by the rule engine, which generates detections when appropriate.

When detection is generated for a specific event, this specific event is also stored in the database regardless of the selected data collection option. For the events processed by the rule-engine without triggering detection, data collection settings apply as follows:

Store all available data

All collected low-level raw events are stored in the database. This option creates a vast database but allows detailed investigation of possible incidents because the analyst can see everything that happened on the system, regardless of whether it was previously flagged as suspicious by the product or not.

This option allows using all the product's features, such as retroactive search, execution of Threat Hunting queries or a re-run of existing or custom rules on the data.

Store most important data

Stores all the data related to the processes (for instance, you will see all processes executed on the endpoints along with their properties, such as command line, etc.). It also limits the storage of low-level events generated by the processes only to those generating the detection. It means the analyst will see a complete process tree during the investigation (be aware that also data retention setting applies here). Still, for the actions of the processes (such as writing to the disk, writing to the registry, network connection etc.), the analyst will see only those which were explicitly caught by the rule.

This may turn into a situation where you will see a network connection (detected by the rule) but will not see that the downloaded file was written to the disk (unless another rule does not detect a specific file write). Similarly, you will not be able to retroactively search for IOCs that are not connected to the process/file and were not detected by the rule previously. For example, you will find a file hash or command line fragment, but not the registry write anymore.

Suppose you are missing some important events using this option. In that case, you can still customize this setting by creating custom rules (typically with low severity, which you will ignore during the monitoring) that will detect events of your interest solely to save these low-level events to the database.

Store only data directly related to detections

This option stores only those low-level event data explicitly caught by the rule, so the smallest database in this mode is created. It applies to the actions (such as writing to the disk, writing to the registry, network connection etc.) and to the processes themselves (process execution, command line, etc.). However, when detection is triggered for the process, process-related data for the process itself, and with the process-related data about all the processes upwards, the process tree and direct child processes will be stored. (Storing process-related data for these additional processes will not store any other data such as "action-related" events.) The database will not store information about all the other processes.

That means that similarly to the option "Store most important data" you may not see some actions and, in this case, also processes that were not explicitly caught by the rule (and are not in that stored part of the process tree mentioned above) with the corresponding consequences. The process tree will not show processes for stored data.

The ability to retroactively search for IOCs would be minimal since you will see neither IOCs related to actions nor IOCs related to process properties (command line, etc.) unless they were detected by the rule previously.

As mentioned in the previous option, you can also customize this setting by creating custom rules (typically with low severity, which you will ignore during the monitoring) that will detect events of your interest (including process execution) to save these low-level events to the database.



As mentioned previously, the storage of low-level event data is significantly affected by which events are being detected. It means that lowering the number of enabled rules will, in turn, also decrease the amount of stored data (available for investigation and retroactive search). This should be considered when lowering the Data Collection settings and disabling some rules simultaneously. For example, selecting "Store only data directly related to detections" and disabling all the rules will lead to storing no data at all and thus causing the product to be dysfunctional.

Store most important data/Store only data directly related to detections, some features are limited:

- Events view
- Aggregated events view
- Background tasks
- Scripts view

- Search

The goal is to control the database size. The user is making a trade-off between database size and some advanced options.

Store only data directly related to detections option is recommended for IT Administrators.

To change what data is stored in the database, go to Admin->Server Settings in the Database Collection section.

Data Retention

Select how long should be the data in the database stored. The longer the period, the more extensive database will become before old data is [purged](#).

Choose how long you want the data in the database to be stored. By default, it is three months.

Choose how long you want the low-level data in the database to be stored. By default, it is one month. Low-level data accounts for most of the database size and should be kept as brief as possible. It only limits detailed investigations of data not identified as suspicious by the product when it is removed.

This setting can be changed in Admin->Server Settings in the Database cleanup section.

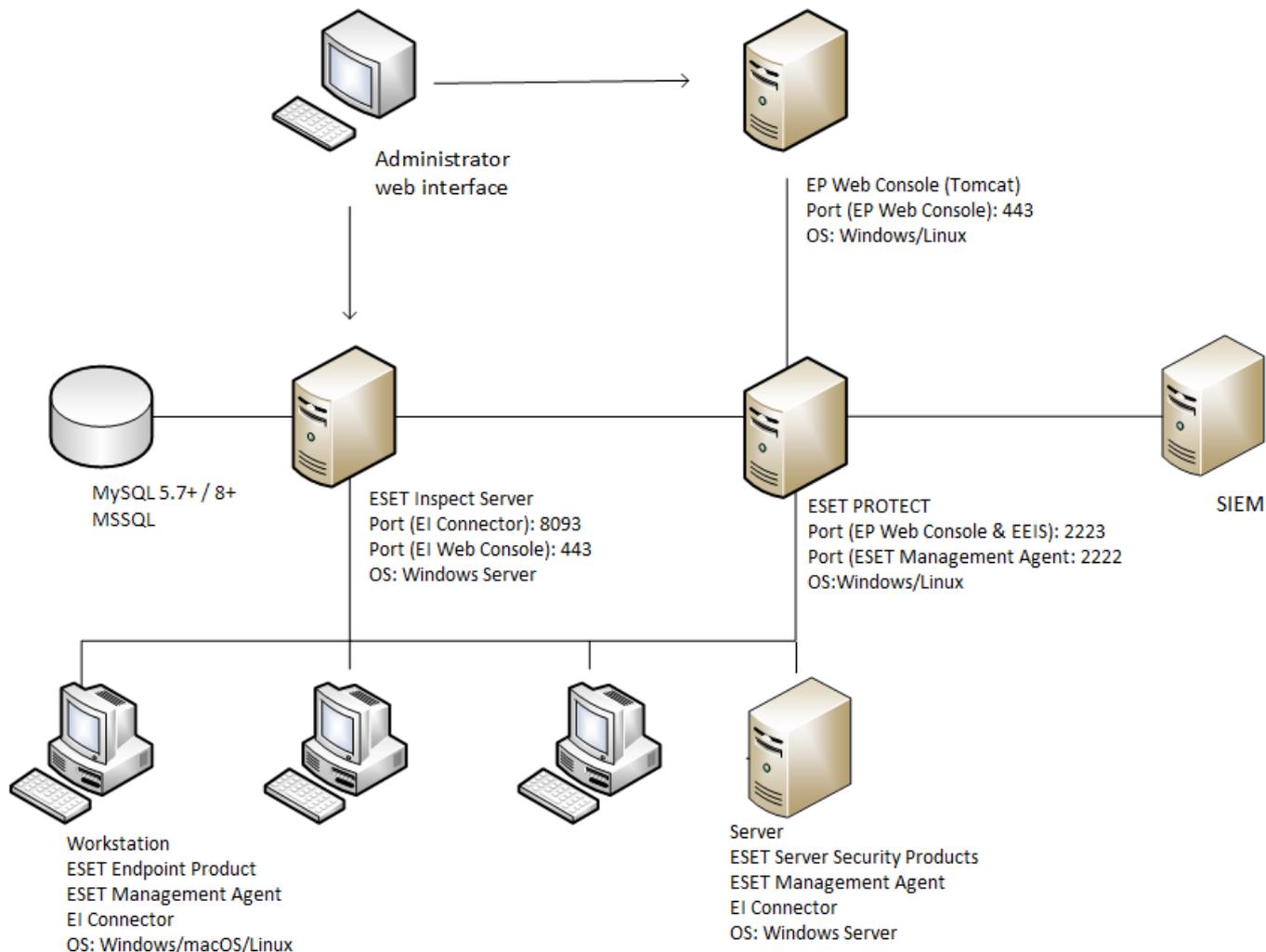
ESET PROTECT Deployment

Make sure that you fulfilled the [requirements](#) before proceeding with the ESET Inspect Server installation. **We recommend that you do not install the ESET PROTECT Server and ESET Inspect Server on the same machine.** We do not recommend using this process. Instead, use the [GUI installation](#) process.

For installation purposes, use only the user that is created without the Two Factor Authentication option enabled.

1. Log in to the ESET PROTECT with proper rights (ESET PROTECT Admin rights or ask ESET PROTECT Admin to create and deploy connectors for you if you don't have sufficient rights).
2. Make sure that the computer for installing ESET Inspect Server has an [ESET Management Agent installed](#).
3. Click the desired computer and choose **New Task...**
4. Fill in the desired **Name**, **Description**, in **Task Category**, you can keep **All Tasks**, in **Task** select **Software Install**. Click **Settings** in the left menu or the **Continue** button at the bottom of the window.
5. Choose whether you want to install ESET Inspect Server from the repository or specify the URL path to the installer.
6. Fill in the **Installation parameters** field. Use the parameters from the [table](#), or you can leave it blank (if it is an upgrade from the existing installation). Click **Finish**.
7. If the task is already created, you can rerun it on another computer or group of computers. See [Client Tasks executions](#).

ESET Inspect Communication Scheme



i SIEM is an acronym for Security Information and Event Management.

Attribute	Description	Required	Default value
APPDIR	Used to set directory under which application should be installed.	-	By default, the path is "C:\Program Files (x86)\ESET\ESET Inspect Server\1" for 32-bit OS and "C:\Program Files\ESET\ESET Inspect Server" for 64-bit
P_DATABASEHOST	Set the hostname of Database Server.	-	"localhost"
P_DATABASEPORT	Set the port number Database Server operates on.	-	"3306"
P_DATABASEUSER	The user that should be used to modify the database.	-	"root"
P_DATABASEPASSWORD	Password to be used to connect to the database. Even if the database allows users not to use a password, the ESET Inspect installer does not allow users without passwords due to security reasons.	yes	-
P_PORTFORSECUREWEB	The port is used for a secure connection to the ESET Inspect Server frontend.	-	"443"
P_PORTFORWEB	The port is used for standard connection to the ESET Inspect Server frontend.	-	"80"
P_PORTFORAGENTS	The port on which the ESET Inspect Server is supposed to listen for events reported by Agents.	-	"8093"
P_DATABASENAME	Name of the database which is created for the ESET Inspect Server by the installer.	-	"enterpriseinspectordb"
P_ERAHOST	Hostname of ESET PROTECT.	-	"localhost"
P_ERAPORT	The port on which ESET PROTECT is configured to listen.	-	"2223"
P_ERAUSER	Name of the user used to connect to ESET PROTECT.	-	"Administrator"
P_ERAPASSWORD	The password of the user used to connect to ESET PROTECT	yes	-
P_PATH_OF_CERT_FOR_AGENT	An absolute path, on target PC, as for now, we don't support URLs. Mounted remote drives like \\store03 should work	yes	-
P_PATH_OF_CERT_FOR_WEB	An absolute path, on target PC, as for now, we don't support URLs. Mounted remote drives like \\store03 should work	yes	-
P_PATH_OF_CERT_AUTH	An absolute path, on target PC, as for now, we don't support URLs. Mounted remote drives like \\store03 should work for the user connected to ESET PROTECT. It's required to install a Connector with Server assisted certification installation.	-	-
P_PASSWORD_OF_CERT_FOR_AGENT	The certificate's password, if it was entered during the creation process.	-	-
P_PASSWORD_OF_CERT_FOR_WEB	The certificate's password, if it was entered during the creation process.	-	-
P_DELETE_EXISTING_DB	In the case of installation: If set to "1", and the database of a provided name already exists, then this database is deleted and recreated. In the case of uninstalling: If set to "1", deletes existing application database after removing all files. It does not require providing the database name. Do not use with reinstall and update.	-	"0"
P_ISTEMETRYACCEPTED	It is used to enable ESET Inspect to send systems telemetry to ESET. It is enabled if different than 0.	-	"1"
P_IS_SERVER_ASSISTED_ERA_CERT_AUTH	It causes the installer to download the ESET PROTECT certificate from ERA Server. It is enabled if different than 0.	-	-

Attribute	Description	Required	Default value
P_PATH_OF_ERA_CERT_AUTH	An absolute path, on target PC, as for now, we don't support URLs. Mounted remote drives works. The server-assisted option can be used when ESET PROTECT certificate authority cannot be downloaded from ESET PROTECT	-	-
P_DATABASETYPE	Choose what type of SQL database you want to use. MySQL or MSSQL	-	MySQL
P_ENABLE_RULES_WITH_SEVERITY_ABOVE	Built-in rules will be marked as disabled if their severity score is not at least given value.	-	39
P_DETECTIONS_STORAGE_DAYS	Number of days after which detections will be removed from a database	-	93
P_EVENT_STORAGE_DAYS	Number of days after which events will be removed from a database	-	7
P_DATA_COLLECTION_LEVEL	Level of data collection allows set type of data stored in a database. 0(Detections only): This mode saves only detections, events and processes not related with detection are discard 1(Most data): This mode saves detections and all processes. 2(All data): This mode saves detections, events, and processes.	-	0

Troubleshooting the installation

ESET Inspect Server and ESET Inspect Connector write error logs to *C:\ProgramData\ESET\Inspect Server\Logs* respectively *C:\ProgramData\ESET\Inspect Connector\Logs*.



If you are using Windows Firewall as your default firewall, the installation creates necessary Windows Firewall rules for communication between components of ESET Inspect. If the Firewall is disabled or you are using a third-party firewall, ensure that ports "80,443,8093,2223" are allowed.

To gather the data on the installation process (both successful or failed installation), it is required to execute the installer package from an administrative command line along with some additional parameters: `/L*Vx temp_log.txt`

Below is a sample command to install the ESET Inspect Server in silent mode and save logs to **temp_log.txt**:

To run GUI - Mode installation and collect logs, use:

```
msiexec /i "ei_server_nt32_ENU.msi" /L*Vx temp_log.txt"
```

```
msiexec /i "ei_server_nt32_ENU.msi" /q /L*Vx temp_log.txt P.DATABASEPASSWORD="yourDatabasePasswordHere"
```

The following is a sample command to install ESET Inspect Connector along with GUI mode, and providing one optional parameter:

```
msiexec /i "ei_connector_nt32_ENU.msi" /L*Vx temp_log.txt /q P_HOSTNAME="localhost"
```

ESET Inspect Server Migration

There are four ways to migrate ESET Inspect Server from one server to another:

- [Clean installation with the same IP address](#)—the new installation uses the original IP address.
- [Clean installation with a different IP address](#)—the new installation uses the new IP address.

Clean installation with the same IP address

This procedure aims to install an entirely new instance of ESET Inspect Server that will have the same IP address as your previous server but will not use the database from the old ESET Inspect Server.

1. **Stop** ESET Inspect Service on an old ESET Inspect Server machine.

2. **Turn** off the old ESET Inspect Server machine.

! Ensure that the new ESET Inspect Server machine has the same IP address as the old one.

3. **Run** the ESET Inspect Server installer on a new server machine and proceed like a typical [installation](#) process.

4. **Connect** to ESET Inspect Servers Web Console.

5. If the connection works, you can now dismantle/disband/uninstall the old ESET Inspect Server.

Clean installation with a different IP address

This procedure aims to install an entirely new instance of ESET Inspect Server that does not use the same IP address as your previous server of the old ESET Inspect Server.

1. **Stop** ESET Inspect Service on an old ESET Inspect Server machine.

2. **Turn** off the old ESET Inspect Server machine.

3. **Run** the ESET Inspect Server installer on a new server machine and proceed like a typical [installation](#) process.

4. To make ESET Inspect Connectors connect to the new ESET Inspect Server, create a new [policy](#) in ESET PROTECT for ESET Inspect Connectors.

5. **Connect** to ESET Inspect Servers Web Console.

6. If the connection works, you can now dismantle/disband/uninstall the old ESET Inspect Server.

ESET Inspect Database Migration

Click the appropriate link below for instructions to migrate the ESET Inspect Server database between different SQL Server instances (this also applies when relocating to a different SQL Server version or when migrating to a SQL Server hosted on a different machine):

- [The migration process for MS SQL Server](#)
- [The migration process for MySQL Server](#)

The migration process for MySQL Server

Prerequisites

- Source and target SQL Server instances must be installed.
- The target SQL Server instance must have at least the same version as the source instance. A downgrade is not supported!

Using command prompt

In the commands, configuration files, or SQL statements below, always replace:

- **SRCHOST** with the address of the source database server
- **SRCROOTLOGIN** with the source MySQL server root user login
- **SRCEEIDBNAME** with the name of the source ESET Inspect Server database to back up
- **TARGETHOST** with the address of the target database server

- **TARGETROOTLOGIN** with the target MySQL server root user login

It is unnecessary to execute the SQL statements below via the command line. If a graphical user interface tool is available, you can use an application you already know.

You can run the commands from the Source or Target machine if those machines are in the same network and the ping between those machines is working. If they are not in the same network, you must manually move the backup file to the target machine.

1. **Stop** the ESET Inspect Server service.
2. **Navigate** to C:\Program Files\MySQL\MySQL Server 5.7\bin or C:\Program Files\MySQL\MySQL Server 8\bin based on the MySQL version you have installed.
3. **Create** a full database backup of the source ESET Inspect Server database (the database you plan to migrate):

```
mysql_dump --host SRCHOST --user=SRCROOTLOGIN --password --events --opt --
routines --triggers --databases SRCEEIDBNAME --default-character-set=utf8mb4 --
result-file="C:\USERS\public\BACKUPFILE.sql"
```

4. **Enter** root login password. You can also add it directly after --password parameter (--password=ABCD).
5. **Adjust** the my.ini file on the target machine based on the version of MySQL you are using. [Version 5.7 or 8](#).
6. **Restore** the database on the target MySQL server.

```
mysql --host TARGETHOST --user=TARGETROOTLOGIN --password <
"C:\USERS\public\BACKUPFILE.sql"
```

7. **Enter** root login password. You can do it as well by adding it directly after -p parameter (-pABCD).
8. **Run** the ESET Inspect Server service if the target MySQL Server machine keeps the same IP address and name of the database as the Source one.
9. When you migrate the database to another server (MySQL IP or port are changed) or change the database name (MySQL IP and port are the same, but database name changed), you have to re-setup the ESET Inspect Server by using the "Repair/Change" option in the Installer. Leave all the settings as they are, but change the database settings like MySQL IP, port, or database name.

The migration process for MS SQL Server

Prerequisites

- Source and target SQL Server instances must be installed.
- The target SQL Server instance must have at least the same version as the source instance. A downgrade is not supported!

Using command prompt

1. **Stop** the ESET ESET Inspect Server service.
2. **Run** the **Command Prompt** application and use this command:

```
SQLCMD -U sa -S localhost -Q "BACKUP DATABASE enterpriseinspectordb TO DISK =
N'C:\USERS\public\BACKUPFILE.bak"
```

3. **Copy** created backup file to the designated MSSQL machine and run this command to restore the

backup of the database on the designated machine:

```
SQLCMD -U sa -S localhost -Q "RESTORE DATABASE enterpriseinspectordb FROM DISK = N'C:\USERS\public\BACKUPFILE.bak"
```

4. [Enable](#) TCP/IP on the target machine.
5. Make sure that the Firewall on the source machine is set up to allow incoming and outgoing communication at port (by default 1433, or changed by the user during [ESET Inspect Server installation process](#))
6. **Run** the ESET ESET Inspect Server service in case the target MSSQL Server machine keeps the same IP address as the Source one.
7. When you migrate the database to another server (MS SQL IP or port will be changed), you have to re-setup the ESET Inspect Server by using the "Repair/Change" option in the Installer. Leave all the settings as they are, but change the database settings like MS SQL IP port.

For attribute meaning, please visit

<https://docs.microsoft.com/en-us/sql/tools/sqlcmd-utility?view=sql-server-2017>.

The **enterpriseinspectordb** in the example is the default DB name created during the ESET Inspect Server [installation](#) process. If you used a different name for the DB, replace the one used in the example above.

Server upgrade through ESET PROTECT



We do not recommend upgrading the ESET Inspect Server via the ESET PROTECT task because the server upgrade can take a long time due to the database upgrade, and the user cannot check the progress of the upgrade operation. We recommend [installing/upgrading the ESET Inspect Server manually](#) where also a progress bar is visible, displaying the current status.

Update ESET Products button in ESET PROTECT

1. In the ESET PROTECT, navigate to the ESET Inspect Server computer overview.
2. In the **Products & Licenses** tile, you see if the version of ESET Products is outdated.
3. Click the tile, and you are redirected to the sub-tab Products & Licenses.
4. Click the **UPDATE ESET PRODUCTS** button, and the window with available latest versions for ESET Products will appear.
5. Check the check box on the line with ESET Inspect Server and click the **OK** button.

ESET Inspect Connector Installation

ESET Inspect Connector is installed on endpoint devices that are monitored by ESET Inspect / ESET Inspect Cloud and collect the data for the ESET Inspect, removes malicious components, and blocks execution of these components.

ESET Inspect Connector can be installed/deployed on [Windows](#), [macOS](#) or [Linux](#) systems using their GUI if available, from the command line or by deploying through ESET PROTECT.

For the uninstallation process of ESET Inspect Connector [follow](#).

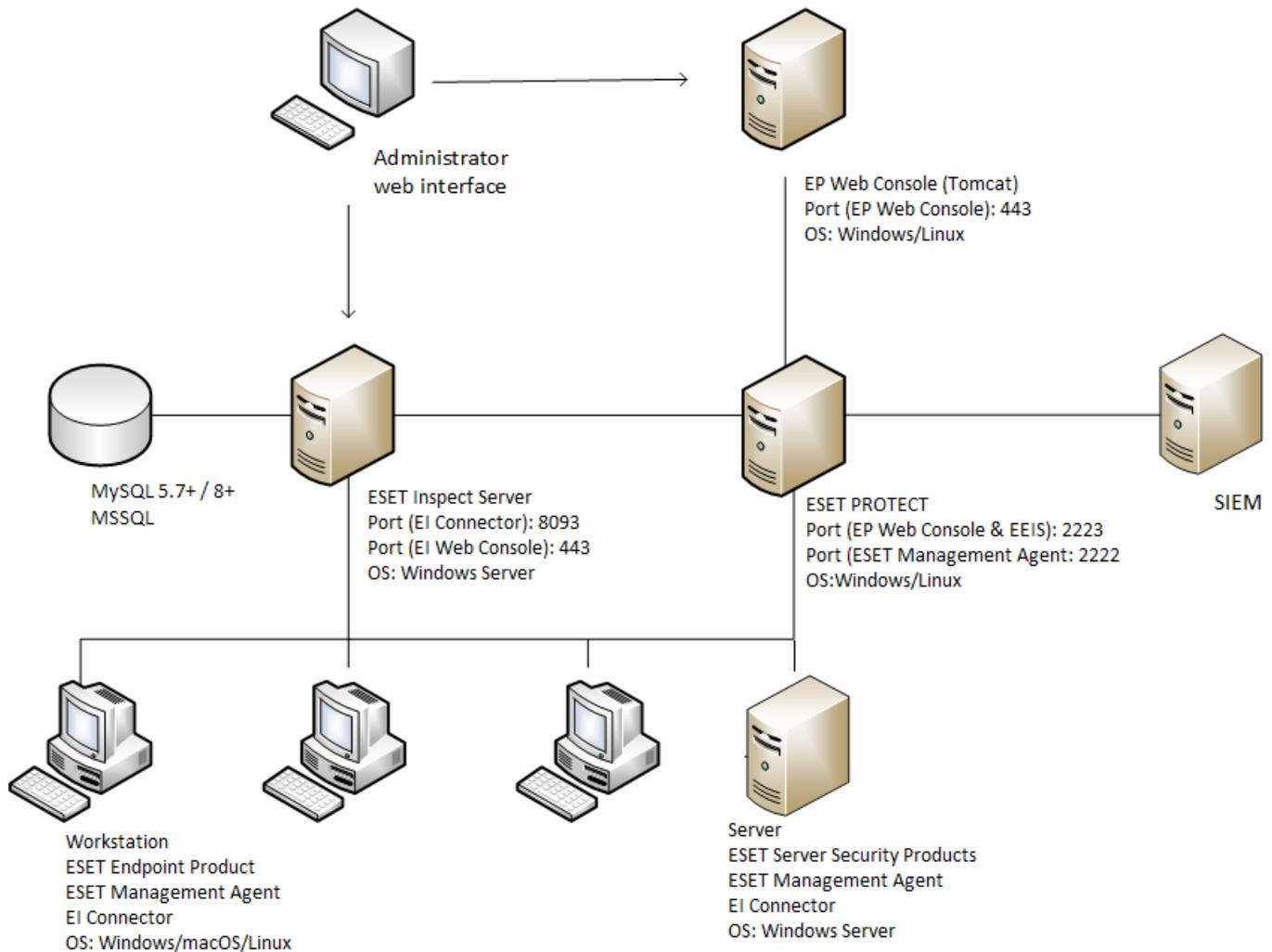


Before installing the ESET Inspect Connector, make sure you are using the latest ESET Endpoint Product update.

Remember that if the ESET Inspect Connector lost the connection with the ESET Inspect Server, it caches the data locally, and the limit is 1GB. You can change this in the ESET Inspect Connector.ini file located on target machines by adding the parameter the MaxOfflineStorageSize, which controls the limit. The value is in Bytes, so the actual set value is 1073741824.

After installing or upgrading ESET Inspect Connector, there is approximately a 7-minute delay until the connector starts to communicate with ESET Inspect Server. Because of that, you see the warning message in ESET PROTECT that the computer cannot connect to ESET Inspect Server. The ESET Inspect Connector will be immediately visible as active at ESET Inspect Web Console if connected correctly.

ESET Inspect Communication Scheme



SIEM is an acronym for Security Information and Event Management.

Windows

Prerequisites

Ensure that you have met the [System Requirements](#) needed to install the ESET Inspect Connector successfully.

To install ESET Inspect Connector for ESET Inspect Cloud, you need first deploy the [ESET Management Agent](#) and install [ESET Endpoint Product](#). For the ESET Inspect Connector installation for ESET Inspect on-premises version, you need first deploy the [ESET Management Agent](#) and install [ESET Endpoint Product](#). Otherwise, the

ESET Inspect Connector will display information that ESET Endpoint Product is required, and your installation will fail if they are not installed.

The recommended way to install ESET Inspect Connector for ESET Inspect Cloud is to use an [All-in-one installer](#). The installer with all needed components is created and ready to deploy at the endpoint.

[Installation of the ESET Inspect Connector for ESET Inspect Cloud](#)

There are several possible ways to install the ESET Inspect Connector for ESET Inspect on-premises version:

- Using [Graphical User Interface](#) provided by the installer
- Using [Command line](#)
- Using [ESET PROTECT Deployment](#)

- Using an [All-in-one installer](#) from ESET PROTECT. A recommended way as the installer with all needed components is created and ready to deploy at the endpoint

ESET Inspect Cloud All-in-one Installer

A recommended way to install ESET Inspect Connector for ESET Inspect Cloud endpoints is to use an [All-in-one installer](#).



You need to activate ESET Inspect Connector with an "ESET Inspect" license. To do this, contact your ESET PROTECT Administrator or create a [Product Activation](#) task.



The ESET Inspect Connector will be visible in ESET Inspect Web Console immediately after activation and correct setting of policy. In a few minutes, you should be able to view the first events sent by connectors. ESET Inspect Connector write error logs into folder:

- Windows *C:\ProgramData\ESET\Inspect Connector\logs*
- macOS */Library/Application Support/ESET/eset_eia/logs*
- Linux */var/log/eset/eei/*

If you experience any other issues, follow the instructions on gathering debug data as detailed in [Troubleshooting the installation](#) topic.

Windows GUI - Mode Installation

Prerequisites

Ensure that you have met the [System Requirements](#) needed to install the ESET Inspect Connector successfully.

To install ESET Inspect Connector for ESET Inspect Cloud, you need first deploy the [ESET Management Agent](#) and install [ESET Endpoint Product](#). For the ESET Inspect Connector installation for ESET Inspect on-premises version, you need first deploy the [ESET Management Agent](#) and install [ESET Endpoint Product](#). Otherwise, the ESET Inspect Connector will display information that ESET Endpoint Product is required, and your installation will fail if they are not installed.

Installation process

1. Execute the downloaded [installer](#) file `ei_connector_nt32_ENU.msi` or `ei_connector_nt64_ENU.msi`, depending on the system.
2. Accept the license agreement and click **Next**.

3. Choose the destination directory where you want ESET Inspect Connector to be installed and then click **Next**.
4. If you need to change the default connection settings to ESET Inspect Connector:
 - a. Type the proper values into the following fields: ESET Inspect Server host, ESET Inspect Server port.
 - b. Choose whether you want to use Server assisted installation or Offline installation.
5. Click **Next**.

The ESET Inspect Connector needs the same certificate authority used to sign a certificate for ESET Inspect Server. You can provide it in one of the methods below:

- Server assisted installation
- Certificate authority on local disk
- Certificate authority installed in Windows Certificate Store

6. In the case of Server assisted installation, the dialog box with certification details appears. Click **Yes** to accept the Certification Authority for ESET Inspect Connector.
7. In the Offline installation, fill the path to the [Certification Authority](#) or click the **Change** button and navigate to it. Click **Next**.
8. Click **Install**. A progress bar appears, displaying the current status.
9. Click **Finish**.
10. If there was a problem with the installation, follow the instructions in the dialog box that appears.

You need to activate ESET Inspect Connector with an "ESET Inspect" license. To do this, contact your ESET PROTECT Administrator or create a [Product Activation](#) task.

Assign policy

It is necessary to create a [Policy](#) to make ESET Inspect Connector communicate with ESET Inspect Server (this is not necessary for ESET Inspect Cloud):

1. In the **Settings** window, select the product "ESET Enterprise Inspector Agent"
2. Fill in the **Server Address** with the ESET Inspect Server IP address.
3. Edit the **Certificate Authority** by clicking **Edit** > **Add** > **Open Certificate Authority**. Chose the certificate that was used during ESET Inspect Server installation. Click **Save**.
4. Click **Continue**.
5. Select the **Assign** button and select the computer/computers you want the policy to be applied on in the **Assign** window. Click **Finish**.

The ESET Inspect Connector will be visible in ESET Inspect Web Console immediately after activation and correct setting of policy. In a few minutes, you should be able to view the first events sent by connectors. ESET Inspect Connector write error logs into folder:

- Windows *C:\ProgramData\ESET\Inspect Connector\logs*
- macOS */Library/Application Support/ESET/eset_eia/logs*
- Linux */var/log/eset/eei/*

If you experience any other issues, follow the instructions on gathering debug data as detailed in [Troubleshooting the installation](#) topic.

Installation from a windows command line

Prerequisites

Ensure that you have met the [System Requirements](#) needed to install the ESET Inspect Connector successfully.

To install ESET Inspect Connector for ESET Inspect Cloud, you need first deploy the [ESET Management Agent](#) and install [ESET Endpoint Product](#). For the ESET Inspect Connector installation for ESET Inspect on-premises version, you need first deploy the [ESET Management Agent](#) and install [ESET Endpoint Product](#). Otherwise, the ESET Inspect Connector will display information that ESET Endpoint Product is required, and your installation will fail if they are not installed.

For the command line installation, follow these steps:

1. Download the [installer](#) file `ei_connector_nt32_ENU.msi` or `ei_connector_nt64_ENU.msi`, depending on the system.
2. Open the command line and navigate to the downloaded file.
3. You can use the example from below with altered attributes or run with specified in the table of attributes.

You may use several attributes with the installer using the silent mode during installation. The hostname is required:

Attribute	Description	Required	Default value
APPDIR	Used to set directory under which application will be installed	-	C:\Program Files(x86)\ESET\ESET Inspect Connector\ for 32-bit OS and C:\Program Files\ESET\ESET Inspect Connector\ for 64-bit
P_HOSTNAME	Used to set host, on which ESET Inspect Server is installed	yes	"localhost"
P_PORT	Used to set the number of the port on which ESET Inspect Server is listening for data from ESET Inspect Connectors	-	8093
APPDATADIR	The directory used to store logs and additional output files	-	"C:\ProgramData\ESET\Inspect Server\"
P_PATH_TO_CERT_AUTH	The absolute path to the Certificate Authority file on the target PC. Currently, URLs are not supported. Mounted remote drives like \\store03 should work. Multiple files can be separated by char ','	-	-
P_IS_SERVER_ASSISTED	If you do not have the Certificate Authority present, set this parameter to 1 (P_IS_SERVER_ASSISTED=1) for server-assisted installation. If this parameter is used user does not need to use P_PATH_TO_CERT_AUTH	-	-

```
msiexec /i ei_connector_nt32_ENU.msi P_HOSTNAME="192.168.5.21" P_PORT="8093"  
P_PATH_TO_CERT_AUTH="C:\repo\Component\Products\Inspect  
Server\Src\test\http_server\certs\ca_store\ca.cert.der"
```



You need to activate ESET Inspect Connector with an "ESET Inspect" license. To do this, contact your ESET PROTECT Administrator or create a [Product Activation](#) task.

Assign policy

It is necessary to create a [Policy](#) to make ESET Inspect Connector communicate with ESET Inspect Server (this is not necessary for ESET Inspect Cloud):

1. In the **Settings** window, select the product "ESET Enterprise Inspector Agent"
2. Fill in the **Server Address** with the ESET Inspect Server IP address.
3. Edit the **Certificate Authority** by clicking **Edit > Add > Open Certificate Authority**. Chose the certificate that was used during ESET Inspect Server installation. Click **Save**.
4. Click **Continue**.
5. Select the **Assign** button and select the computer/computers you want the policy to be applied on in the **Assign** window. Click **Finish**.

The ESET Inspect Connector will be visible in ESET Inspect Web Console immediately after activation and correct setting of policy. In a few minutes, you should be able to view the first events sent by connectors. ESET Inspect Connector write error logs into folder:

- Windows `C:\ProgramData\ESET\Inspect Connector\logs`
- macOS `/Library/Application Support/ESET/eset_eia/logs`
- Linux `/var/log/eset/eei/`

If you experience any other issues, follow the instructions on gathering debug data as detailed in [Troubleshooting the installation](#) topic.

Troubleshooting the installation

ESET Inspect Server and ESET Inspect Connector write error logs to `C:\ProgramData\ESET\Inspect Server\Logs` respectively `C:\ProgramData\ESET\Inspect Connector\Logs`.

- ! If you are using Windows Firewall as your default firewall, the installation creates necessary Windows Firewall rules for communication between components of ESET Inspect. If the Firewall is disabled or you are using a third-party firewall, ensure that ports "80,443,8093,2223" are allowed.

To gather data on the installation process (both successful or failed installation), it is required to execute the installer package from an administrative command line along with some additional parameters: `/L*Vx temp_log.txt`

Below is a sample command to install ESET Inspect Server in silent mode and save logs to **temp_log.txt**:

To run GUI - Mode installation and collect logs, use:

```
msiexec /i "ei_server_nt32_ENU.msi" /L*Vx temp_log.txt
```

```
msiexec /i "ei_server_nt32_ENU.msi" /q /L*Vx temp_log.txt P.DATABASEPASSWORD="yourDatabasePasswordHere"
```

The following is a sample command to install ESET Inspect Connector along with GUI mode, and providing one optional parameter:

```
msiexec /i "ei_connector_nt32_ENU.msi" /L*Vx temp_log.txt /q P_HOSTNAME="localhost"
```

GUI Repair/Change

ESET Inspect Connector reinstallation using GUI

1. Use the "Modify" option from Apps & Features (or Programs and Features at Control Panel for older systems) or execute the downloaded installer file **ei_connector_nt32_ENU.msi** or **ei_connector_nt64_ENU.msi**, depending on the system.
2. Click **Repair/Change**.
3. Change the ESET Inspect Server host address and port or keep those from the previous installation.
4. Choose one of the following options:
 - a. Do not change current CA settings—This will keep the certification authority from the previous installation.
 - b. Server assisted installation—If certificates on the server side change and you don't want to add them manually.

c.Offline installation—If you have exported certificates from the server, you can install them manually.

5. In the case of a Server assisted installation, the dialog box with certification details appears. Click **Yes** to accept the Certification Authority for ESET Inspect Connector.
6. In the Offline installation, fill the path to the **Certification Authority** or click the **Change** button and navigate to it. Click **Next**.
7. Click **Repair**. A progress bar appears, displaying the current status.
8. If no problems occur, the next screen shows up. Click **Finish**, and your application is ready to use.
9. If there was a problem with the installation, follow the instructions in the dialog box that appears.

The ESET Inspect Connector will be visible in ESET Inspect Web Console immediately after activation and correct setting of policy. In a few minutes, you should be able to view the first events sent by connectors. ESET Inspect Connector write error logs into folder:

- Windows *C:\ProgramData\ESET\Inspect Connector\logs*
- macOS */Library/Application Support/ESET/eset_eia/logs*
- Linux */var/log/eset/eei/*

If you experience any other issues, follow the instructions on gathering debug data as detailed in [Troubleshooting the installation](#) topic.

Upgrade through ESET PROTECT

For upgrade through the ESET PROTECT, you can follow the same procedure described in the [ESET PROTECT Deployment](#) topic.

GUI Upgrade from older version

In the second installation screen:

Fill in the proper ESET Inspect Server IP address (if unchanged, no action is needed)

Fill in the proper ESET Inspect Server port (if unchanged, no action is necessary)

Choose how you want to work with the Certification Authority:

- **Do not change current CA settings**—use this option if you are using the same CA.
- **Server assisted installation**—if the ESET Inspect Server IP address changed or you want to use a different CA that is currently used by your ESET Inspect Server, you can use this option to help you with the proper setting. Click **Next**. The dialog box with certification details appears. Click **Yes** to accept the Certification Authority for ESET Inspect Connector.
- **Offline installation**—in the next screen, fill the path to the **Certification Authority** or click the **Change** button and navigate to it. Click **Next**.

Click **Install**. A progress bar will appear, displaying the current status.

If no problems occur, the next screen displays. Click **Finish**, and your application is ready to use.

If there was a problem with the installation, follow the instructions in the dialog box that appears.

Command Line Upgrade from older version

For upgrade from the command line, you can follow the same procedure described in the [Installation from the command line](#) topic.

macOS

Prerequisites

Ensure that you have met the [System Requirements](#) needed to install the ESET Inspect Connector successfully.

To install ESET Inspect Connector for ESET Inspect Cloud, you need first deploy the [ESET Managemegent Agent](#) and install [ESET Endpoint Product](#). For the ESET Inspect Connector installation for ESET Inspect on-premises version, you need first deploy the [ESET Managemegent Agent](#) and install [ESET Endpoint Product](#). Otherwise, the ESET Inspect Connector will display information that ESET Endpoint Product is required, and your installation will fail if they are not installed.

ESET Inspect Connector installation on macOS

There are several possible ways to install the ESET Inspect Connector for ESET Inspect / ESET Inspect Cloud version:

- Using [Graphical User Interface](#) provided by the installer
- Using [Terminal](#)
- Using [ESET PROTECT Deployment](#)

macOS GUI - Mode Installation

Prerequisites

Ensure that you have met the [System Requirements](#) needed to install the ESET Inspect Connector successfully.

To install ESET Inspect Connector for ESET Inspect Cloud, you need first deploy the [ESET Managemegent Agent](#) and install [ESET Endpoint Product](#). For the ESET Inspect Connector installation for ESET Inspect on-premises version, you need first deploy the [ESET Managemegent Agent](#) and install [ESET Endpoint Product](#). Otherwise, the ESET Inspect Connector will display information that ESET Endpoint Product is required, and your installation will fail if they are not installed.

ESET Inspect Connector installation on macOS

1. Download the ESET Inspect Connector installation [file](#).
2. Copy the installation file to the desired computer.
3. Run ESET_Enterprise_Inspect.pkg file.
4. On the introduction screen, click the **Continue** button.
5. On the read me screen, you can **Print** or **Save** the System requirements or **Go Back**. Click **Continue**.
6. You can change the installation folder on the installation type screen by clicking the **Change Installation Location** button. Click **Install**.

7. Type your administrator credential to allow the installer to continue. Click **Install Software**.
8. In the summary window, click the [System preferences/Security & Privacy/Privacy/Full disk access](#) to grant ESET Inspect Connector full disk access.
9. Click **Close**.



You need to activate ESET Inspect Connector with an "ESET Inspect" license. To do this, contact your ESET PROTECT Administrator or create a [Product Activation](#) task.

Assign policy

It is necessary to create a [Policy](#) to make ESET Inspect Connector communicate with ESET Inspect Server (this is not necessary for ESET Inspect Cloud):

1. In the **Settings** window, select the product "ESET Enterprise Inspector Agent"
2. Fill in the **Server Address** with the ESET Inspect Server IP address.
3. Edit the **Certificate Authority** by clicking **Edit > Add > Open Certificate Authority**. Chose the certificate that was used during ESET Inspect Server installation. Click **Save**.
4. Click **Continue**.
5. Select the **Assign** button and select the computer/computers you want the policy to be applied on in the **Assign** window. Click **Finish**.

From version macOS 10.14 onwards, you will receive the notification, "**Your computer is partially protected from ESET Endpoint Security for macOS. To access all ESET Endpoint Security for macOS functions, you need to allow Full disk access to ESET Endpoint Security for macOS**".

For a fully functional ESET Inspect Connector, grant full disk access:

1. Open **Preferences > Security & Privacy > Privacy**.
2. Unlock settings in the lower-left corner
3. Scroll the left side menu and click **full disk access**.
4. In the right side menu mark the ESET Endpoint Security/ESET Endpoint Antivirus, ESET Managemegent Agent, ESET Inspect Connector and also ESET Real-time system protection.
5. Lock your settings.

Using MDM

To allow Full disk access remotely:

1. Download the [.plist](#) configuration file.
2. Generate two UUIDs with a UUID generator of your choice and use a text editor to replace strings with the text insert your UUID 1 here and insert your UUID 2 here in the downloaded configuration profile.
3. Deploy the [.plist](#) configuration profile file using the MDM server.

Your computer needs to be enrolled in the MDM server to be able to deploy configuration profiles to those computers.

Installation from a macOS terminal

Prerequisites

Ensure that you have met the [System Requirements](#) needed to install the ESET Inspect Connector successfully.

To install ESET Inspect Connector for ESET Inspect Cloud, you need first deploy the [ESET Management Agent](#) and install [ESET Endpoint Product](#). For the ESET Inspect Connector installation for ESET Inspect on-premises version, you need first deploy the [ESET Management Agent](#) and install [ESET Endpoint Product](#). Otherwise, the ESET Inspect Connector will display information that ESET Endpoint Product is required, and your installation will fail if they are not installed.

ESET Inspect Connector installation on macOS

1. Download the ESET Inspect Connector installation [file](#).
2. Copy the installation file to the desired computer.
3. Open the Terminal.
4. Execute this command `"sudo installer -pkg "/PATH_TO_INSTALLER/ESET_Inspect_Connector.pkg" -target LocalSystem"`.



You need to activate ESET Inspect Connector with an "ESET Inspect" license. To do this, contact your ESET PROTECT Administrator or create a [Product Activation](#) task.

Assign policy

It is necessary to create a [Policy](#) to make ESET Inspect Connector communicate with ESET Inspect Server (this is not necessary for ESET Inspect Cloud):

1. In the **Settings** window, select the product "ESET Enterprise Inspector Agent"
2. Fill in the **Server Address** with the ESET Inspect Server IP address.
3. Edit the **Certificate Authority** by clicking **Edit > Add > Open Certificate Authority**. Chose the certificate that was used during ESET Inspect Server installation. Click **Save**.
4. Click **Continue**.
5. Select the **Assign** button and select the computer/computers you want the policy to be applied on in the **Assign** window. Click **Finish**.

From version macOS 10.14 onwards, you will receive the notification, "**Your computer is partially protected from ESET Endpoint Security for macOS. To access all ESET Endpoint Security for macOS functions, you need to allow Full disk access to ESET Endpoint Security for macOS**".

For a fully functional ESET Inspect Connector, grant full disk access:

1. Open **Preferences > Security & Privacy > Privacy**.
2. Unlock settings in the lower-left corner
3. Scroll the left side menu and click **full disk access**.
4. In the right side menu mark the ESET Endpoint Security/ESET Endpoint Antivirus, ESET Management Agent, ESET Inspect Connector and also ESET Real-time system protection.
5. Lock your settings.

Using MDM

To allow Full disk access remotely:

1. Download the [.plist](#) configuration file.

2. Generate two UUIDs with a UUID generator of your choice and use a text editor to replace strings with the text insert your UUID 1 here and insert your UUID 2 here in the downloaded configuration profile.
3. Deploy the .plist configuration profile file using the MDM server.

Your computer needs to be enrolled in the MDM server to be able to deploy configuration profiles to those computers.

Linux

Prerequisites

Ensure that you have met the [System Requirements](#) needed to install the ESET Inspect Connector successfully.

To install ESET Inspect Connector for ESET Inspect Cloud, you need first deploy the [ESET Managemegent Agent](#) and install [ESET Endpoint Product](#). For the ESET Inspect Connector installation for ESET Inspect on-premises version, you need first deploy the [ESET Managemegent Agent](#) and install [ESET Endpoint Product](#). Otherwise, the ESET Inspect Connector will display information that ESET Endpoint Product is required, and your installation will fail if they are not installed.

ESET Inspect Connector installation on Linux

There are several possible ways to install the ESET Inspect Connector for ESET Inspect / ESET Inspect Cloud version:

- Using [Terminal](#)
- Using [ESET PROTECT Deployment](#)

Linux Terminal Installation

Prerequisites

Ensure that you have met the [System Requirements](#) needed to install the ESET Inspect Connector successfully.

To install ESET Inspect Connector for ESET Inspect Cloud, you need first deploy the [ESET Managemegent Agent](#) and install [ESET Endpoint Product](#). For the ESET Inspect Connector installation for ESET Inspect on-premises version, you need first deploy the [ESET Managemegent Agent](#) and install [ESET Endpoint Product](#). Otherwise, the ESET Inspect Connector will display information that ESET Endpoint Product is required, and your installation will fail if they are not installed.

ESET Inspect Connector installation on Linux

1. Download the ESET Inspect Connector installation [file](#).
2. Copy the installation file to the desired computer.
3. Open the Terminal in the folder where the file was copied to.
4. Execute command "`sudo chmod 777 *`" to get full access to the installation file.
5. Execute command "`sudo ./esets_eia-x.x.xxxx-Linux.sh`".



You need to activate ESET Inspect Connector with an "ESET Inspect" license. To do this, contact your ESET PROTECT Administrator or create a [Product Activation](#) task.

Assign policy

It is necessary to create a [Policy](#) to make ESET Inspect Connector communicate with ESET Inspect Server (this is not necessary for ESET Inspect Cloud):

1. In the **Settings** window, select the product "ESET Enterprise Inspector Agent"
2. Fill in the **Server Address** with the ESET Inspect Server IP address.
3. Edit the **Certificate Authority** by clicking **Edit > Add > Open Certificate Authority**. Chose the certificate that was used during ESET Inspect Server installation. Click **Save**.
4. Click **Continue**.
5. Select the **Assign** button and select the computer/computers you want the policy to be applied on in the **Assign** window. Click **Finish**.

The ESET Inspect Connector will be visible in ESET Inspect Web Console immediately after activation and correct setting of policy. In a few minutes, you should be able to view the first events sent by connectors. ESET Inspect Connector write error logs into folder:

- Windows *C:\ProgramData\ESET\Inspect Connector\logs*
- macOS */Library/Application Support/ESET/eset_eia/logs*
- Linux */var/log/eset/eei/*

If you experience any other issues, follow the instructions on gathering debug data as detailed in [Troubleshooting the installation](#) topic.

ESET PROTECT Windows/macOS/Linux Deployment

Prerequisites

Ensure that you have met the [System Requirements](#) needed to install the ESET Inspect Connector successfully.

To install ESET Inspect Connector for ESET Inspect Cloud, you need first deploy the [ESET Management Agent](#) and install [ESET Endpoint Product](#). For the ESET Inspect Connector installation for ESET Inspect on-premises version, you need first deploy the [ESET Management Agent](#) and install [ESET Endpoint Product](#). Otherwise, the ESET Inspect Connector will display information that ESET Endpoint Product is required, and your installation will fail if they are not installed.

ESET PROTECT Windows/macOS/Linux deployment

1. Log in to the ESET PROTECT with proper rights (ESET PROTECT Admin rights or ask ESET PROTECT Admin to create and deploy connectors for you if you do not have sufficient privileges).
2. Click **COMPUTERS** in the left side menu.
3. You can deploy the connector in two possible ways:
 - On one computer.
 - On a group of computers.
4. Click the desired computer and choose **New Task**.
5. Fill in the desired **Name**, **Description**, in **Task Category** you can keep **All Tasks**, in **Task** select **Software Install**. Then, click **Settings** in the left menu or the **Continue** button at the bottom of the window.
6. Choose a proper license. You need to activate ESET Inspect Connector with an "ESET PROTECT Enterprise" license. [Click here](#) to manage the license for ESET Inspect.
7. Choose whether you want to install ESET Inspect Connector from the repository or specify the URL path to the installer (32-bits or 64-bits, depending on the operating system).
8. In case of Linux or macOS, skip to step 9. Fill in the **Installation parameters** field. You can use the

same parameters as in [Installation from a command line](#), or you can leave it blank (it will install without Certificate Authority, and ESET Inspect Server address will be "localhost". You can change this by creating a Policy with ESET Inspect Server address and Certificate Authority. For a Policy in the ESET PROTECT, [click here](#) or ask ESET PROTECT Administrator to create a policy for you). Click **Finish**.

9. If the task is already created, you can rerun it on another computer or group of computers. See [Client Tasks executions](#).

10. For Linux and macOS (if you left parameters blank for Windows part, then for it as well), it is necessary to create [Policy](#) to make ESET Inspect Connector communicate with ESET Inspect Server (this is not necessary for ESET Inspect Cloud):

- a. In the **Settings** window, select the product "ESET Inspect Connector"
- b. Fill in the **Server Address** with the ESET Inspect Server IP address.
- c. Edit the **Certificate Authority** by clicking **Edit > Add > Open Certificate Authority**. Chose the certificate that was used during ESET Inspect Server installation. Click **Save**.
- d. Click **Continue**.
- e. Select the **Assign** button and select the computer/computers you want the policy to be applied on in the **Assign** window. Click **Finish**.

Example:

The easiest way to install the connector (Windows only) through a deployment is to use these parameters:

```
✓ P_HOSTNAME="IP_OR_HOSTNAME_OF_EI_SERVER" P_IS_SERVER_ASSISTED=1
```

ESET PROTECT macOS Deployment

From version macOS 10.14 onwards, you will receive the notification, "**Your computer is partially protected from ESET Endpoint Security for macOS. To access all ESET Endpoint Security for macOS functions, you need to allow Full disk access to ESET Endpoint Security for macOS**".

For a fully functional ESET Inspect Connector, grant full disk access:

1. Open **Preferences > Security & Privacy > Privacy**.
2. Unlock settings in the lower-left corner
3. Scroll the left side menu and click **full disk access**.
4. In the right side menu mark the ESET Endpoint Security/ESET Endpoint Antivirus, ESET Management Agent, ESET Inspect Connector and also ESET Real-time system protection.
5. Lock your settings.

Using MDM

To allow Full disk access remotely:

1. Download the [.plist](#) configuration file.
2. Generate two UUIDs with a UUID generator of your choice and use a text editor to replace strings with the text insert your UUID 1 here and insert your UUID 2 here in the downloaded configuration profile.
3. Deploy the .plist configuration profile file using the MDM server.

Your computer needs to be enrolled in the MDM server to be able to deploy configuration profiles to those computers.



You need to activate ESET Inspect Connector with an "ESET Inspect" license. To do this, contact your ESET PROTECT Administrator or create a [Product Activation](#) task.

The ESET Inspect Connector will be visible in ESET Inspect Web Console immediately after activation and correct setting of policy. In a few minutes, you should be able to view the first events sent by connectors. ESET Inspect Connector write error logs into folder:

- Windows C:\ProgramData\ESET\Inspect Connector\logs
- macOS /Library/Application Support/ESET/eset_eia/logs
- Linux /var/log/eset/eei/

ESET Inspect Connector uninstallation

Through ESET PROTECT / ESET PROTECT Cloud

To uninstall ESET Inspect Connector for ESET Inspect Cloud, use the [Software Uninstall](#) Task in the ESET PROTECT Cloud instance.

To uninstall ESET Inspect Connector for ESET Inspect, use the [Software Uninstall](#) Task in the ESET PROTECT instance.

1. Navigate to **Tasks > New**.
2. In the Task creation wizard in the **Basic** section, fill in the Name and Description and select **Software uninstall** from the **Task** drop-down menu.
3. Select the application to uninstall from the **Uninstall** drop-down menu in the **Settings** section. Under **Package name**, click **Select package to uninstall**, select the ESET Inspect Connector you want to uninstall and click **OK**.
4. Under **Package version**, click **Uninstall all versions of package** to prevent problems when uninstalling different versions of ESET Inspect Connector on client computers in your network.
5. Select the check box next to **Automatic reboot when needed** to ensure that the uninstallation process is finished.
6. Click **Finish** to create the task.
7. Click **Create trigger** to select a Target for the task.
8. Click **Add Groups** and select the **All** group as the target.
9. Select the appropriate trigger and click **Finish** to execute.

Manual uninstallation

Windows

Standard windows application uninstallation processes can be used.

macOS

In the Terminal run the command: `sudo "/Library/Application Support/ESET/ESET Inspect Connector.app/Contents/Scripts/Uninstall.command"`

Linux

In the Terminal run the command: `sudo "/opt/eset/eei/uninstall.sh"`

Telemetry

ESET Inspect Telemetry services collect usage information based on user behavior within the ESET Inspect Web Console to improve user experience and overall system performance.

Data collected

- Number of computers with the ESET Inspect Connector installed
- Information about the machine where the ESET Inspect Server is installed:
 - OS name and version
 - CPU model and speed
 - RAM size
 - MySQL database version and size
- Information about the machine where the ESET Inspect Connector is installed:
 - Agent version
 - OS name and version
 - RAM size
 - CPU model and speed
- Number of computers managed by ESET PROTECT
- Number of events received by the ESET Inspect Server, the processing time
- Web browser name and version in which the ESET Inspect Web Console is viewed
- Commands executed by the user in the ESET Inspect Web Console
- Report how long it takes to run purge for one partition
- Report if the purge was completed successfully or failed
- How many detections were generated from which rule
- How many detections were generated each day (week)

Due to the nature of telemetry, the IP address of the ESET Inspect Server from which the information is sent is also collected.

End User License Agreement

Effective as of October 19, 2021.

IMPORTANT: Please read the terms and conditions of product application set out below carefully prior to download, installation, copy or use. **THROUGH DOWNLOADING, INSTALLING, COPYING OR USING THE SOFTWARE YOU ARE EXPRESSING YOUR CONSENT TO THESE TERMS AND CONDITIONS AND YOU ACKNOWLEDGE [PRIVACY POLICY](#).**

End User License Agreement

Under the terms of this End User License Agreement ("Agreement") executed by and between ESET, spol. s r. o., having its registered office at Einsteinova 24, 85101 Bratislava, Slovak Republic, registered in the Commercial

Register administered by Bratislava I District Court, Section Sro, Entry No 3586/B, Business Registration Number: 31333532 ("ESET" or "Provider") and you, a physical person or legal entity ("You" or "End User"), You are entitled to use the Software defined in Article 1 of this Agreement. The Software defined in Article 1 of this Agreement can be stored on a data carrier, sent via electronic mail, downloaded from the Internet, downloaded from the Provider's servers or obtained from other sources, subject to the terms and conditions specified below.

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YOU AGREE THAT YOUR USE OF THE SOFTWARE ACKNOWLEDGES THAT YOU HAVE READ THIS AGREEMENT, UNDERSTAND IT AND AGREE TO BE BOUND BY ITS TERMS AND CONDITIONS.

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2. Installation, Computer and a License key. Software supplied on a data carrier, sent via electronic mail, downloaded from the Internet, downloaded from the Provider's servers or obtained from other sources requires installation. You must install the Software on a correctly configured Computer, complying at least with requirements set out in the Documentation. The installation methodology is described in the Documentation. No computer programs or hardware which could have an adverse effect on the Software may be installed on the Computer on which You install the Software. Computer means hardware, including but not limited to personal computers, laptops, workstations, palmtop computers, smartphones, hand-held electronic devices, or other electronic devices for which the Software is designed, on which it will be installed and/or used. License key means the unique sequence of symbols, letters, numbers or special signs provided to the End User in order to allow the legal use of the Software, its specific version or extension of the term of the License in compliance with this Agreement.

3. License. Subject to the condition that You have agreed to the terms of this Agreement and You comply with all the terms and conditions stipulated herein, the Provider shall grant You the following rights ("License"):

a) **Installation and use.** You shall have the non-exclusive, non-transferable right to install the Software on the hard disk of a Computer or other permanent medium for data storage, installation and storage of the Software in the memory of a computer system and to implement, store and display the Software.

b) **Stipulation of the number of licenses.** The right to use the Software shall be bound by the number of End Users. One End User shall be taken to refer to the following: (i) installation of the Software on one Computer; or (ii) if the extent of a license is bound to the number of mailboxes, then one End User shall be taken to refer to a

Computer user who accepts electronic mail via a Mail User Agent ("MUA"). If MUA accepts electronic mail and subsequently distributes it automatically to several users, then the number of End Users shall be determined according to the actual number of users for whom the electronic mail is distributed. If a mail server performs the function of a mail gate, the number of End Users shall equal the number of mail server users for which the said gate provides services. If an unspecified number of electronic mail addresses are directed to and accepted by one user (e.g., through aliases) and messages are not automatically distributed by the client to a larger number of users, a License for one computer shall be required. You must not use the same License at the same time on more than one Computer. The End User is entitled to enter the License key to the Software only to the extent to which the End User has the right to use the Software in accordance with the limitation arising from the number of Licenses granted by Provider. The License key is deemed confidential, You must not share the License with third parties or allow third parties to use the License key unless permitted by this Agreement or Provider. If your License key is compromised, notify Provider immediately.

c) **Home/Business Edition.** A Home Edition version of the Software shall be used exclusively in private and/or non-commercial environments for home and family use only. A Business Edition version of the Software must be obtained for use in a commercial environment as well as to use the Software on mail servers, mail relays, mail gateways, or Internet gateways.

d) **Term of the License.** Your right to use the Software shall be time-limited.

e) **OEM Software.** Software classified as "OEM" shall be limited to the Computer You obtained it with. It cannot be transferred to a different Computer.

f) **NFR, TRIAL Software.** Software classified as "Not-for-resale", NFR or TRIAL cannot be assigned for payment and must only be used for demonstration or testing the Software's features.

g) **Termination of the License.** The License shall terminate automatically at the end of the period for which granted. If You fail to comply with any of the provisions of this Agreement, the Provider shall be entitled to withdraw from the Agreement, without prejudice to any entitlement or legal remedy open to the Provider in such eventualities. In the event of cancellation of the License, You must immediately delete, destroy or return at your own cost, the Software and all backup copies to ESET or to the outlet from which You obtained the Software. Upon termination of the License, the Provider shall also be entitled to cancel the End User's entitlement to use the functions of the Software, which require connection to the Provider's servers or third-party servers.

4. Functions with data collection and internet connection requirements. To operate correctly, the Software requires connection to the Internet and must connect at regular intervals to the Provider's servers or third-party servers and applicable data collection in compliance with Privacy Policy. Connection to the Internet and applicable data collection is necessary for functioning of the Software and for updating and upgrading the Software. The Provider shall be entitled to issue updates or upgrades to the Software ("Updates"), but shall not be obliged to provide Updates. This function is enabled under the Software's standard settings and Updates are therefore installed automatically, unless the End User has disabled the automatic installation of Updates. For provisioning of Updates, License authenticity verification is required, including information about Computer and/or the platform on which the Software is installed in compliance with Privacy Policy.

Provision of any Updates may be subject to End of Life Policy ("EOL Policy"), which is available on https://go.eset.com/eol_business. No Updates will be provided after the Software or any of its features reaches the End of Life date as defined in the EOL Policy.

For the purpose of this Agreement, it is necessary to collect, process and store data enabling the Provider to identify You in compliance with Privacy Policy. You hereby acknowledge that the Provider checks using its own means whether You are using the Software in accordance with the provisions of this Agreement. You hereby acknowledge that for the purpose of this Agreement it is necessary for your data to be transferred, during communication between the Software and the Provider's computer systems or those of its business partners as

part of Provider's distribution and support network to ensure functionality of Software and authorization to use the Software and to protection of the Provider's rights.

Following conclusion of this Agreement, the Provider or any of its business partners as part of Provider's distribution and support network shall be entitled to transfer, process and store essential data identifying You for billing purposes, performance of this Agreement and transmitting notifications on your Computer.

Details about privacy, personal data protection and Your rights as a data subject can be found in Privacy Policy which is available on Provider's website and accessible directly from the installation process. You can also visit it from Software's help section.

5. Exercising End User rights. You must exercise End User rights in person or via your employees. You are only entitled to use the Software to safeguard your operations and protect those Computers or computers systems for which You have obtained a License.

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b) You may not use, modify, translate or reproduce the Software or transfer rights to use the Software or copies of the Software in any manner other than as provided for in this Agreement.

c) You may not sell, sub-license, lease or rent or borrow the Software or use the Software for the provision of commercial services.

d) You may not reverse engineer, reverse compile or disassemble the Software or otherwise attempt to discover the source code of the Software, except to the extent that this restriction is expressly prohibited by law.

e) You agree that You will only use the Software in a manner that complies with all applicable laws in the jurisdiction in which You use the Software, including, but not limited to, applicable restrictions concerning copyright and other intellectual property rights.

f) You agree that You will only use the Software and its functions in a way which does not limit the possibilities of other End Users to access these services. The Provider reserves the right to limit the scope of services provided to individual End Users, to enable use of the services by the highest possible number of End Users. Limiting the scope of services shall also mean complete termination of the possibility to use any of the functions of the Software and deletion of Data and information on the Provider's servers or third-party servers relating to a specific function of the Software.

g) You agree not to exercise any activities involving use the License key, contrary to the terms of this Agreement or leading to provide License key to any person who is not entitled to use the Software, such as the transfer of used or unused License key in any form, as well as the unauthorized reproduction, or distribution of duplicated or generated License keys or using the Software as a result of the use of a License key obtained from the source other than the Provider.

7. Copyright. The Software and all rights, without limitation including proprietary rights and intellectual property rights thereto are owned by ESET and/or its licensors. They are protected by international treaty provisions and by all other applicable national laws of the country in which the Software is being used. The structure, organization and code of the Software are the valuable trade secrets and confidential information of ESET and/or its licensors. You must not copy the Software, except as set forth in Article 6(a). Any copies which You are

permitted to make pursuant to this Agreement must contain the same copyright and other proprietary notices that appear on the Software. If You reverse engineer, reverse compile, disassemble or otherwise attempt to discover the source code of the Software, in breach of the provisions of this Agreement, You hereby agree that any information thereby obtained shall automatically and irrevocably be deemed to be transferred to and owned by the Provider in full, from the moment such information comes into being, notwithstanding the Provider's rights in relation to breach of this Agreement.

8. Reservation of rights. The Provider hereby reserves all rights to the Software, with the exception of rights expressly granted under the terms of this Agreement to You as the End User of the Software.

9. Multiple language versions, dual media software, multiple copies. In the event that the Software supports multiple platforms or languages, or if You receive multiple copies of the Software, You may only use the Software for the number of computer systems and for the versions for which You obtained a License. You may not sell, rent, lease, sub-license, lend or transfer versions or copies of the Software which You do not use.

10. Commencement and termination of the Agreement. This Agreement shall be effective from the date You agree to the terms of this Agreement. You may terminate this Agreement at any time by permanently uninstalling, destroying and returning, at your own cost, the Software, all backup copies and all related materials provided by the Provider or its business partners. Your right to use Software and any of its features may be subject to EOL Policy. After the Software or any of its features reaches the End of Life date defined in the EOL Policy, your right to use the Software will terminate. Irrespective of the manner of termination of this Agreement, the provisions of Articles 7, 8, 11, 13, 19 and 21 shall continue to apply for an unlimited time.

11. END USER DECLARATIONS. AS THE END USER YOU ACKNOWLEDGE THAT THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW. NEITHER THE PROVIDER, ITS LICENSORS OR AFFILIATES, NOR THE COPYRIGHT HOLDERS MAKE ANY REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR THAT THE SOFTWARE WILL NOT INFRINGE ANY THIRD-PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS. THERE IS NO WARRANTY BY THE PROVIDER OR BY ANY OTHER PARTY THAT THE FUNCTIONS CONTAINED IN THE SOFTWARE WILL MEET YOUR REQUIREMENTS OR THAT THE OPERATION OF THE SOFTWARE WILL BE UNINTERRUPTED OR ERROR-FREE. YOU ASSUME ALL RESPONSIBILITY AND RISK FOR THE SELECTION OF THE SOFTWARE TO ACHIEVE YOUR INTENDED RESULTS AND FOR THE INSTALLATION, USE AND RESULTS OBTAINED FROM IT.

12. No other obligations. This Agreement creates no obligations on the part of the Provider and its licensors other than as specifically set forth herein.

13. LIMITATION OF LIABILITY. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL THE PROVIDER, ITS EMPLOYEES OR LICENSORS BE LIABLE FOR ANY LOST PROFITS, REVENUE, SALES, DATA OR COSTS OF PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES, PROPERTY DAMAGE, PERSONAL INJURY, INTERRUPTION OF BUSINESS, LOSS OF BUSINESS INFORMATION OR FOR ANY SPECIAL, DIRECT, INDIRECT, INCIDENTAL, ECONOMIC, COVER, PUNITIVE, SPECIAL OR CONSEQUENTIAL DAMAGES, HOWEVER CAUSED AND WHETHER ARISING UNDER CONTRACT, TORT, NEGLIGENCE OR OTHER THEORY OF LIABILITY, ARISING OUT OF THE INSTALLATION, THE USE OF OR INABILITY TO USE THE SOFTWARE, EVEN IF THE PROVIDER OR ITS LICENSORS OR AFFILIATES ARE ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. BECAUSE SOME COUNTRIES AND JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF LIABILITY, BUT MAY ALLOW LIABILITY TO BE LIMITED, IN SUCH CASES, THE LIABILITY OF THE PROVIDER, ITS EMPLOYEES OR LICENSORS OR AFFILIATES SHALL BE LIMITED TO THE SUM THAT YOU PAID FOR THE LICENSE.

14. Nothing contained in this Agreement shall prejudice the statutory rights of any party dealing as a consumer if running contrary thereto.

15. Technical support. ESET or third parties commissioned by ESET shall provide technical support at their own discretion, without any guarantees or declarations. No technical support will be provided after the Software or any of its features reaches the End of Life date defined in the EOL Policy. The End User shall be required to back up all existing data, software and program facilities prior to the provision of technical support. ESET and/or third parties commissioned by ESET cannot accept liability for damage or loss of data, property, software or hardware or loss of profits due to the provision of technical support. ESET and/or third parties commissioned by ESET reserve the right to decide that resolving the problem is beyond the scope of technical support. ESET reserves the right to refuse, suspend or terminate the provision of technical support at its own discretion. License information, Information and other data in compliance with Privacy Policy may be required for the purpose of technical support provision.

16. Transfer of the License. The Software can be transferred from one Computer to another, unless contrary to the terms of the Agreement. If not contrary to the terms of the Agreement, the End User shall only be entitled to permanently transfer the License and all rights ensuing from this Agreement to another End User with the Provider's consent, subject to the condition that (i) the original End User does not retain any copies of the Software; (ii) the transfer of rights must be direct, i.e. from the original End User to the new End User; (iii) the new End User must assume all the rights and obligations incumbent on the original End User under the terms of this Agreement; (iv) the original End User has to provide the new End User with documentation enabling verification of the genuineness of the Software as specified under Article 17.

17. Verification of the genuineness of the Software. The End User may demonstrate entitlement to use the Software in one of the following ways: (i) through a license certificate issued by the Provider or a third party appointed by the Provider; (ii) through a written license agreement, if such an agreement was concluded; (iii) through the submission of an e-mail sent by the Provider containing licensing details (user name and password). License information and End User identification data in compliance with Privacy Policy may be required for the purpose of Software genuineness verification.

18. Licensing for public authorities and the US Government. The Software shall be provided to public authorities, including the United States Government, with the license rights and restrictions described in this Agreement.

19. Trade control compliance.

a) You will not, directly or indirectly, export, re-export, transfer or otherwise make available the Software to any person, or use it in any manner, or be involved in any activity, that could result in ESET or its holding companies, its subsidiaries, and the subsidiaries of any of its holding companies, as well as entities controlled by its holding companies ("Affiliates") being in violation of, or being subject to, negative consequences under trade control laws which include:

i. any laws that control, restrict, or impose licensing requirements on export, re-export or transfer of goods, software, technology, or services, issued or adopted by any government, state or regulatory authority of the United States of America, Singapore, the United Kingdom, the European Union or any of its Member States, or any country in which obligations under the Agreement are to be performed, or in which ESET or any of its Affiliates are incorporated or operate, and

ii. any economic, financial, trade or other, sanction, restriction, embargo, import or export ban, prohibition on transfer of funds or assets or on performing services, or equivalent measure imposed by any government, state or regulatory authority of the United States of America, Singapore, the United Kingdom, the European Union or any of its Member States, or any country in which obligations under the Agreement are to be performed, or in which ESET or any of its Affiliates are incorporated or operate.

(legal acts referred to in points i, and ii. above together as "Trade Control Laws").

b) ESET shall have the right to suspend its obligations under, or terminate, these Terms with immediate effect in

the event that:

- i. ESET determines that, in its reasonable opinion, the User has breached or is likely to breach provision of Article 19 a) of the Agreement; or
- ii. the End User and/or the Software become subject to Trade Control Laws and, as a result, ESET determines that, in its reasonable opinion, the continued performance of its obligations under the Agreement could result in ESET or its Affiliates being in violation of, or being subject to negative consequences under, Trade Control Laws.
- c) Nothing in the Agreement is intended, and nothing should be interpreted or construed, to induce or require either party to act or refrain from acting (or to agree to act or refrain from acting) in any manner which is inconsistent with, penalized, or prohibited under any applicable Trade Control Laws.

20. Notices. All notices and returns of the Software and Documentation must be delivered to: ESET, spol. s r. o., Einsteinova 24, 85101 Bratislava, Slovak Republic, without prejudice to ESET's right to communicate to You any changes to this Agreement, Privacy Policies, EOL Policy and Documentation in accordance with art. 22 of the Agreement. ESET may send You emails, in-app notifications via Software or post the communication on our website. You agree to receive legal communications from ESET in electronic form, including any communications on change in Terms, Special Terms or Privacy Policies, any contract proposal/acceptance or invitations to treat, notices or other legal communications. Such electronic communication shall be deemed as received in writing, unless applicable laws specifically require a different form of communication.

21. Applicable law. This Agreement shall be governed by and construed in accordance with the laws of the Slovak Republic. The End User and the Provider hereby agree that the principles of the conflict of laws and the United Nations Convention on Contracts for the International Sale of Goods shall not apply. You expressly agree that any disputes or claims ensuing from this Agreement with respect to the Provider or any disputes or claims relating to use of the Software shall be settled by Bratislava I District Court and You expressly agree to the said court exercising jurisdiction.

22. General provisions. Should any of the provisions of this Agreement be invalid or unenforceable, this shall not affect the validity of the other provisions of the Agreement, which shall remain valid and enforceable under the conditions stipulated therein. This Agreement has been executed in English. In case any translation of the Agreement is prepared for the convenience or any other purpose or in any case of a discrepancy between language versions of this Agreement, the English version shall prevail.

ESET reserves the right to make changes to the Software as well as to revise terms of this Agreement, its Annexes, Addendums, Privacy Policy, EOL Policy and Documentation or any part thereof at any time by updating the relevant document (i) to reflect changes to the Software or to how ESET does business, (ii) for legal, regulatory or security reasons, or (iii) to prevent abuse or harm. You will be notified about any revision of the Agreement by email, in-app notification or by other electronic means. If You disagree with the proposed changes to the Agreement, You may terminate it in accordance with Art. 10 within 30 days after receiving a notice of the change. Unless You terminate the Agreement within this time limit, the proposed changes will be deemed accepted and become effective towards You as of the date You received a notice of the change.

This is the entire Agreement between the Provider and You relating to the Software and it supersedes any prior representations, discussions, undertakings, communications or advertising relating to the Software.

EULAID: EULA-PRODUCT-LG-EI; 3537.0

ADDENDUM TO THE AGREEMENT

Forwarding of Information to the Provider. Additional provisions apply to the Forwarding of Information to the Provider as follows:

The Software contains functions which collect samples of computer viruses and other malicious computer programs and suspicious, problematic, potentially unwanted or potentially unsafe objects such as files, URLs, IP packets and ethernet frames (hereinafter referred to as "Infiltrations") and then send them to the Provider, including but not limited to information about the installation process, the computer and/or the platform on which the Software is installed and/or information about the operations and functionality of the Software (hereinafter referred to as "Information"). The Information and Infiltrations may contain data (including randomly or accidentally obtained personal data) about the End User or other users of the computer on which the Software is installed, and files affected by Infiltrations with associated metadata.

Information and Infiltrations may be collected by LiveGrid Reputation System function which includes collection and sending of one-way hashes related to Infiltrations to Provider. This function is enabled under the Software's standard settings.

The Provider shall only use Information and Infiltrations received for analysis and research of Infiltrations, improvement of Software and License authenticity verification and shall take appropriate measures to ensure that Infiltrations and Information received remain secure. By activating this function of the Software You are agreeing to Infiltrations and Information being sent to the Provider and You are also granting the Provider the necessary approval, as specified under the relevant legal regulations, for processing Infiltrations and Information obtained. You can deactivate these functions at any time.

EULAID: EULA-PRODUCT-LG-EI; 3537.0

Privacy Policy

The protection of personal data is of particular importance to ESET, spol. s r. o., having its registered office at Einsteinova 24, 851 01 Bratislava, Slovak Republic, registered in the Commercial Register administered by Bratislava I District Court, Section Sro, Entry No 3586/B, Business Registration Number: 31333532 as a Data Controller ("ESET" or "We"). We want to comply with the transparency requirement as legally standardized under the EU General Data Protection Regulation ("GDPR"). To achieve this goal, We are publishing this Privacy Policy with the sole purpose of informing our customer ("End User" or "You") as a data subject about following personal data protection topics:

- Legal Basis of Personal Data Processing,
- Data Sharing and Confidentiality,
- Data Security,
- Your Rights as a Data Subject,
- Processing of Your Personal Data
- Contact Information.

Processing of Your Personal Data

Services provided by ESET implemented in our product are provided under the terms of [EULA](#), but some of them might require specific attention. We would like to provide You with more details on data collection connected with the provision of our services. We render various services described in the EULA and the product [documentation](#). To make it all work, We need to collect the following information:

Server and web console

- Information concerning installation process, including platform on which our product is installed and information about the operations and functionality of our product such as hardware fingerprint, installation IDs, crash dumps, license IDs, IP address, MAC address, configuration settings of ESET product installed on server (not including data from monitored endpoint devices).
- Licensing information such as license ID and personal data such as company name, name and surname, address, email address is required for billing purposes, license genuineness verification and provision of our services.
- Contact information and data contained in your support requests may be required for service of support. Based on the channel You choose to contact us, We may collect your email address, phone number, license information, product details and description of your support case. You may be asked to provide us with other information to facilitate service of support such as generated log files.
- Telemetry data concerning usage.

Monitored endpoint devices

- ESET product collects and locally stores information from monitoring of endpoint devices and network exclusively based on preferences, requirements and setting managed by You.
- Data from monitored endpoint devices and from network are not transferred to ESET.

We encourage You to check and review the legislation and legal requirements for data collection and processing in Your country while setting up ESET product. You might be required to notify users of monitored endpoint devices or ask for specific permission under the certain jurisdiction when You monitor and collect.

Data Sharing and Confidentiality

We do not share your data with third parties. However, ESET is a company that operates globally through affiliated companies or partners as part of our sales, service and support network. Licensing, billing and technical support information processed by ESET may be transferred to and from affiliates or partners for the purpose of fulfilling the EULA, such as providing services or support.

ESET prefers to process its data in the European Union (EU). However, depending on your location (use of our products and/or services outside the EU) and/or the service you choose, it may be necessary to transfer your data to a country outside the EU. For example, we use third-party services in connection with cloud computing. In these cases, we carefully select our service providers and ensure an appropriate level of data protection through contractual as well as technical and organizational measures. As a rule, we agree on the EU standard contractual clauses, if necessary, with supplementary contractual regulations.

For some countries outside the EU, such as the United Kingdom and Switzerland, the EU has already determined a comparable level of data protection. Due to the comparable level of data protection, the transfer of data to these countries does not require any special authorization or agreement.

Data Subject's Rights

The rights of every End User matter and We would like to inform you that all End Users (from any EU or any non-EU country) have the following rights guaranteed at ESET. To exercise your data subject's rights, you can contact us via support form or by e-mail at dpo@eset.sk. For identification purposes, we ask you for the following

information: Name, e-mail address and - if available - license key or customer number and company affiliation. Please refrain from sending us any other personal data, such as the date of birth. We would like to point out that to be able to process your request, as well as for identification purposes, we will process your personal data.

Right to Withdraw the Consent. Right to withdraw the consent is applicable in case of processing based on consent only. If We process your personal data on the basis of your consent, you have the right to withdraw the consent at any time without giving reasons. The withdrawal of your consent is only effective for the future and does not affect the legality of the data processed before the withdrawal.

Right to Object. Right to object the processing is applicable in case of processing based on the legitimate interest of ESET or third party. If We process your personal data to protect a legitimate interest, You as the data subject have the right to object to the legitimate interest named by us and the processing of your personal data at any time. Your objection is only effective for the future and does not affect the lawfulness of the data processed before the objection. If we process your personal data for direct marketing purposes, it is not necessary to give reasons for your objection. This also applies to profiling, insofar as it is connected with such direct marketing. In all other cases, we ask you to briefly inform us about your complaints against the legitimate interest of ESET to process your personal data.

Please note that in some cases, despite your consent withdrawal, we are entitled to further process your personal data on the basis of another legal basis, for example, for the performance of a contract.

Right of Access. As a data subject, you have the right to obtain information about your data stored by ESET free of charge at any time.

Right to Rectification. If we inadvertently process incorrect personal data about you, you have the right to have this corrected.

Right to Erasure and Right to Restriction of Processing. As a data subject, you have the right to request the deletion or restriction of the processing of your personal data. If we process your personal data, for example, with your consent, you withdraw it and there is no other legal basis, for example, a contract, We delete your personal data immediately. Your personal data will also be deleted as soon as they are no longer required for the purposes stated for them at the end of our retention period.

If we use your personal data for the sole purpose of direct marketing and you have revoked your consent or objected to the underlying legitimate interest of ESET, We will restrict the processing of your personal data to the extent that we include your contact data in our internal black list in order to avoid unsolicited contact. Otherwise, your personal data will be deleted.

Please note that We may be required to store your data until the expiry of the retention obligations and periods issued by the legislator or supervisory authorities. Retention obligations and periods may also result from the Slovak legislation. Thereafter, the corresponding data will be routinely deleted.

Right to Data Portability. We are happy to provide You, as a data subject, with the personal data processed by ESET in the xls format.

Right to Lodge a Complaint. As a data subject, You have a right to lodge a complaint with a supervisory authority at any time. ESET is subject to the regulation of Slovak laws and We are bound by data protection legislation as part of the European Union. The relevant data supervisory authority is The Office for Personal Data Protection of the Slovak Republic, located at Hraničná 12, 82007 Bratislava 27, Slovak Republic.

Contact Information

If You would like to exercise your right as a data subject or You have a question or concern, send us a message at:

ESET, spol. s r.o.
Data Protection Officer
Einsteinova 24
85101 Bratislava
Slovak Republic
dpo@eset.sk