



The Linux Sensor v7.0.1 release notes contain the following sections:

- [Summary](#)
- [Installation Instructions](#)
- [New Features](#)
- [Corrective Content](#)
- [Known Issues and Limitations](#)
- [Contacting Support](#)

## Summary

VMware Carbon Black EDR Linux Sensor v7.0.1 introduces support for RHEL/CentOS 7.9. It includes fixes for [CB-22188] *file\_process\_table entry uses too much memory* , [CB-32413] *kernel memory corrupted by file\_process\_table cache data*, together with other bug fixes.

## Sensor operating systems

VMware Carbon Black EDR sensors operate with multiple operating systems. For the current list of supported operating systems, see <https://community.carbonblack.com/docs/DOC-7991>.

## Documentation

This document provides information for users who are upgrading to VMware Carbon Black EDR Linux Sensor v7.0.1 from previous versions and users who are new to VMware Carbon Black EDR. This document supplements other VMware Carbon Black documentation. [Click here](#) to search the full library of Carbon Black EDR user documentation on the VMware Carbon Black User Exchange.

## Installation Instructions

**Warning:** EDR Linux Sensors versions 7.x do not support el6 distros (RHEL/CentOS 6.x). Attempting to upgrade el6 endpoints will result in a failed upgrade and the sensor will be left offline.

**To install the new sensor:**

1. Set your yum repo appropriately: modify `/etc/yum.repos.d/CarbonBlack.repo` with the appropriate baseurl, if needed.
  - o Baseurl=  
[https://yum.distro.carbonblack.io/enterprise/stable/\\$releasever/\\$basearch/](https://yum.distro.carbonblack.io/enterprise/stable/$releasever/$basearch/)
2. Clear the yum cache.
  - o `yum clean all`
3. Download the installer.
  - o Substitute the `cb-linux-sensor-installer` name for `cb-linux-sensor-installer-7.0.1.14543-1`.
  - o The `<package local download directory>` is a directory such as `/tmp`.
  - o Run the following command to download the installer:  
`yum install --downloadonly --downloadaddir=<package local download directory> <package>`
4. Change your directory to the `<package local download directory>` from Step 3.
5. Run the following command to install the package:
  - o `rpm -i --force <package>`  
  
(current package to use:  
`cb-linux-sensor-installer-7.0.1.14543-1.noarch.rpm`)
6. Run the following command to make the new installation package available in the server console:
  - o `/usr/share/cb/cbcheck sensor-builds --update`

**Note:** If your groups have **Automatic Update** enabled, the sensors in that group will automatically update.

The new sensor versions should now be available via the console. If the following warning occurs:

```
warning: /tmp/cb-linux-sensor-installer-7.0.1.14543-1.noarch.rpm: Header V4 RSA/SHA1  
Signature, key ID 6ac57704: NOKEY
```

refer to this Knowledge Base Article: [How to provide public key for Linux sensor package](#).

For any other issues, contact [Carbon Black Technical Support](#).

# New Features

## RHEL/CentOS 7.9 Support

Introducing support for RHEL/CentOS 7.9.

## Corrective Content

This release provides the following corrective content changes:

- File process tracking was reworked to track file writes safely, efficiently, and to reduce memory footprint. [CB-22188/CB-32413]
- [eBPF] Restarting `cbdaemon.service` also restarted `ebpfdaemon.service`. [CB-33257]
- "Fail to delete inode" error messages were filling up the system log file. This message indicates that a thread tried to free a file tracking hash entry that had already been freed by another thread. This indicates a cache conflict and a "use after free" memory issue. These error messages are fixed. [CB-31346]
- [eBPF] `kmod` related or `uninstall` error messages are now displayed only when needed during `install` and `uninstall`. [CB-33242]
- Reset invalid license error when the underlying condition is resolved. [CB-31080]

## Known Issues and Limitations

Known issues associated with this sensor version:

- To prevent the sensor from going offline, users must upgrade to a 6.2.x or 6.3.x sensor prior to upgrading to 7.0.x.
- Downgrades from 7.0.0-lnx to 6.x.x-lnx will require a manual `uninstall` and `install` due to extensive architectural changes in the 7.0.0 version.
- Proxy setting in `sensorsettings.ini` will not work with a custom TLS certificate. [CB-30175]
- Updating from sensor version v6.1.6 and earlier can result in a system panic if certain other security software (Tripwire, McAfee) is also installed. v6.1.7 introduced a safety mechanism to prevent this panic. This safety mechanism can result in the sensor refusing to update to prevent a panic. An update will occur on the next system reboot. To upgrade without a reboot, review <https://community.carbonblack.com/docs/DOC-15629> [CB-12773] for alternate instructions and further technical analysis of the issue.

- Oracle UEK is not supported. The RHCK kernel must be installed prior to installing cbsensor on Oracle Linux. [CB-18158]
- This version of the Linux Sensor Installer does not respect the specification of a non-default installation directory in `cb.conf` on the server – the default directory is always used. [CB-17033]
- Memory and CPU usage in the `cbdaemon` increases as a system becomes busier. Under certain workloads such as long lived processes with lots of forked children, memory and CPU usage can become excessive. [CB-16064/CB-21648]
- PID reuse on the system can cause new processes to not be suppressed when they should be. [CB-18239/CB-29810]
- ICMP traffic is allowed when a sensor is isolated. [CB-6623]
- Unloading the `cbsensor` module can cause some programs to exit due to an unexpected return from a socket read. [CB-26764]
- The sensor might report an incorrect binary backlog. [CB-26518]

# Contacting Support

VMware Carbon Black EDR server and sensor update releases are covered under the VMware Carbon Black Customer Maintenance Agreement. Technical Support can assist with any issues that might develop during the installation or upgrade process. Our Professional Services organization is also available to ensure a smooth and efficient upgrade or installation.

**Note:** Before performing an upgrade, VMware Carbon Black recommends reviewing content on the User Exchange for supplemental information.

Use one of the following channels to request support or ask support questions:

- **Web:** [User Exchange](#)
- **Email:** [support@carbonblack.com](mailto:support@carbonblack.com)
- **Phone:** 877.248.9098
- **Fax:** 617.393.7499

When contacting Carbon Black Technical Support, provide the following required information:

- **Contact:** Your name, company name, telephone number, and email address.
- **Product version:** Product name (VMware Carbon Black EDR server and sensor version).
- **Hardware configuration:** Hardware configuration of the VMware Carbon Black EDR server (processor, memory, and RAM).
- **Document version:** For documentation issues, specify the version and/or date of the manual or document you are using.
- **Problem:** Action causing the problem, error message returned, and event log output (as appropriate).
- **Problem severity:** Critical, serious, minor, or enhancement request.