# FortiClient (Linux) - Release Notes

Version 6.4.3

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# Change log

| Date | Change Description |
|---|---|
| 2021-02-09 | Initial release. |
| | |

# Introduction

FortiClient (Linux) 6.4.3 is an endpoint product for well-known Linux distributions that provides FortiTelemetry, antivirus, SSL VPN, and Vulnerability Scan features. FortiClient (Linux) can also download and use FortiSandbox signatures.

This document provides a summary of support information and installation instructions for FortiClient (Linux) 6.4.3 build 0959.


- Installation information on page 6
- Product integration and support on page 9
- Resolved issues on page 10
- Known issues on page 12


Review all sections prior to installing FortiClient.

# Installation information

## Installing FortiClient (Linux)

You can install FortiClient (Linux) on the following operating systems:

- Ubuntu
- CentOS
- Red Hat

For supported versions, see Product integration and support on page 9.

If upgrading from FortiClient (Linux) 6.0.3 or an earlier version using an RPM package, you must first uninstall any version of FortiClient (Linux) earlier than 6.4.3 from the machine.

If upgrading from FortiClient (Linux) 6.0.4 or a later version, you can directly upgrade to FortiClient (Linux) 6.4.3 without first uninstalling the earlier version of FortiClient (Linux).

### Installing FortiClient (Linux) using a downloaded installation file

**To install on Red Hat or CentOS 8:**

1. Obtain a FortiClient Linux installation rpm file.
2. In a terminal window, run the following command:
   `$ sudo dnf install <FortiClient installation rpm file> -y`
   `<FortiClient installation rpm file>` is the full path to the downloaded rpm file.

If running Red Hat 7 or CentOS 7, replace `dnf` with `yum` in the command in step 2.

**To install on Ubuntu:**

1. Obtain a FortiClient Linux installation deb file.
2. Install FortiClient using the following command:
   `$ sudo apt-get install <FortiClient installation deb file>`
   `<FortiClient installation deb file>` is the full path to the downloaded deb file.

### Install FortiClient (Linux) from repo.fortinet.com

**To install on Red Hat or CentOS 8:**

1. Add the repository:
   ```
   sudo dnf config-manager --add-repo https://repo.fortinet.com/repo/6.4/centos/7/os/x86_
   64/fortinet.repo
   ```
2. Install FortiClient:
   `sudo dnf install forticlient`

**To install on Red Hat or CentOS 7:**

1. Add the repository:
```
sudo yum-config-manager --add-repo https://repo.fortinet.com/repo/6.4/centos/7/os/x86_
     64/fortinet.repo
```
2. Install FortiClient:
```
sudo yum install forticlient
```

**To install on Fedora 32:**

1. Add the repository:
```
sudo dnf config-manager --add-repo https://repo.fortinet.com/repo/6.4/centos/7/os/x86_
     64/fortinet.repo
```
2. Install FortiClient:
```
sudo dnf install forticlient
```

**To install on Ubuntu:**

1. Install the gpg key:
```
wget -O - https://repo.fortinet.com/repo/6.4/ubuntu/DEB-GPG-KEY | sudo apt-key add -
```
2. Add the following line in `/etc/apt/sources.list`:
   a. If using Ubuntu 16.04 LTS:
   ```
   deb [arch=amd64] https://repo.fortinet.com/repo/6.4/ubuntu/ xenial multiverse
   ```
   b. If using Ubuntu 18.04 LTS or 20.04:
   ```
   deb [arch=amd64] https://repo.fortinet.com/repo/6.4/ubuntu/ /bionic multiverse
   ```
3. Update package lists:
```
sudo apt-get update
```
4. Install FortiClient:
```
sudo apt install forticlient
```

## Installation folder and running processes

The FortiClient installation folder is `/opt/forticlient`.

In case there are issues, or to report a bug, FortiClient logs are available in `/var/log/forticlient`.

# Starting FortiClient (Linux)

FortiClient (Linux) runs automatically in the backend after installation.

**To open the FortiClient (Linux) GUI:**

1. Do one of the following:
   a. In the terminal, run the `forticlient` command.
   b. Open Applications and search for `forticlient`.

After running the FortiClient (Linux) GUI for the first time, you can add it to the favorites menu. By default, the favorites menu is usually on the left-hand side of the screen.

# Uninstalling FortiClient (Linux)

**To uninstall FortiClient from Red Hat or CentOS:**

```
$ sudo dnf remove forticlient
```

If running Red Hat 7 or CentOS 7, replace `dnf` with `yum` in the command.

**To uninstall FortiClient from Ubuntu:**

```
$ sudo apt-get remove forticlient
```

# Product integration and support

The following table lists version 6.4.3 product integration and support information:

| | |
|---|---|
| **Operating systems** | • Ubuntu 16.04 and later<br>• CentOS 7.4 and later<br>• Red Hat 7.4 and later<br>All supported with KDE or GNOME |
| **FortiAnalyzer** | • 6.4.0 and later |
| **FortiClient EMS** | • 6.4.1 and later |
| **FortiManager** | • 6.4.0 and later |
| **FortiOS** | The following FortiOS versions support SSL VPN with FortiClient (Linux) 6.4.3:<br>• 6.4.0 and later<br>• 6.2.0 and later<br>• 6.0.0 and later<br>The following FortiOS versions support endpoint control and SSL VPN with FortiClient (Linux) 6.4.3:<br>• 6.2.0 and later |
| **FortiSandbox** | • 3.2.0 and later<br>• 3.1.0 and later<br>• 3.0.0 and later<br>• 2.5.0 and later |

# Resolved issues

The following issues have been fixed in version 6.4.3. For inquiries about a particular bug, contact Customer Service & Support.

## Endpoint control

| Bug ID | Description |
|---|---|
| 673119 | DHCP IP address on-Fabric detection rule does not work. |
| 678357 | FortiClient (Linux) does not reflect Red Hat Enterprise Linux OS Zero Trust tag. |
| 685743 | FortiClient (Linux) sends the X-FCCK-TAG endpoint control message to EMS. |
| 692024 | FortiClient sends FCCK-TAG message to EMS even if no fields change. |

## GUI

| Bug ID | Description |
|---|---|
| 682883 | GUI display issue. |

## Malware Protection

| Bug ID | Description |
|---|---|
| 595520 | Real-time protection quarantines infected files when action on virus discovery is set to delete infected files. |

## Remote Access

| Bug ID | Description |
|---|---|
| 659267 | Improve VPN DNS management. |

| Bug ID | Description |
|---|---|
| 675855 | FortiClient (Linux) on Ubuntu does not accept SSL VPN DNS suffix DHCP settings. |
| 685344 | FortiClient should show SASE tunnel under SASE SIA heading, not Corporate VPN. |

## Other

| Bug ID | Description |
|---|---|
| 582302 | FortiClient cannot get signature from FortiManager using HTTPS because of certificate check failure. |
| 689771 | Copyright year must be updated to 2021 in installer EULA. |
| 691789 | epctrl stays in high CPU and FortiClient (Linux) fails to disconnect from EMS. |

# Known issues

The following issues have been identified in FortiClient (Linux) 6.4.3. For inquiries about a particular bug or to report a bug, contact Customer Service & Support.

## Endpoint control

| Bug ID | Description |
|---|---|
| 636209 | FortiClient does not accurately or reliably detect Ubuntu. |
| 646115 | Endpoint running process and network statistics information is not visible on EMS. |
| 676150 | FortiClient (Linux) cannot get software inventory from CentOS server. |
| 686052 | Add EMS connect/disconnect event information on GUI. |
| 690477 | FortiClient fails to migrate to non-default EMS sites. |
| 691790 | EMS fails to download requested diagnostic result. |
| 693681 | FortiClient does not show Zero Trust tag when nwifs and rule change is applied. |
| 694048 | FortiClient (Linux) disconnects randomly during migration. |
| 694549 | FCCK-TAG message is not triggered when VPN disconnects. |

## Malware Protection

| Bug ID | Description |
|---|---|
| 649641 | Real-time protection scan/scan on insertion does not work for removable media. |
| 667824 | Antivirus settings page is configurable after connecting to EMS. |
| 674410 | GUI shows wrong antivirus scan message. |

## Vulnerability Scan

| Bug ID | Description |
|---|---|
| 677948 | Scan results show no vulnerabilities found, while scan history records vulnerabilities. |

## Remote Access

| Bug ID | Description |
|---|---|
| 651864 | SSL VPN does not check network interface state. |
| 677640 | SSL VPN autoconnect with or without certificate and with FortiToken enabled does not work. |
| 678647 | FortiClient fails to connect to SSL VPN when using SAML authentication with third-party identity provider. |
| 683687 | FortiClient fails to autoconnect to FortiSASE VPN. |
| 684913 | SAML authentication on SSL VPN with realms does not work. |
| 691580 | DNS resolving issue in SSL VPN. |

## GUI

| Bug ID | Description |
|---|---|
| 692385 | When disconnecting from EMS, FortiClient (Linux) should keep the EMS hostname/IP address in the GUI. |

## Logs

| Bug ID | Description |
|---|---|
| 650334 | Feature list for log settings is inconsistent between EMS and FortiClient (Linux). |
| 671898 | XFS file system does not allow FortiAnalyzer logging. |

## Other

| Bug ID | Description |
|---|---|
| 693410 | fctsched memory leak. |

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