

DEPLOYMENT GUIDE

# Fortinet and SentinelOne

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- Overview** .....3
  - Deployment Prerequisites .....3
  - Architecture Overview .....3
- FortiClient Installation. ....4
- SentinelOne Installation.** .....5
  - Download the SentinelOne Agent Installer .....5
  - Install the SentinelOne Agent .....5
- FortiGate Configuration.** .....6
  - Enforce Endpoint Telemetry and Compliance. ....6
  - FortiClient Security Profile Definition. ....7
- Check the FortiClient Security Fabric Agent .....8
- Check the SentinelOne Agent .....9

## Overview

This document explains the installation and configuration steps required to install FortiClient Security Fabric agent and SentinelOne agent on a corporate endpoint device protected by a FortiGate appliance.

FortiGate is responsible for enforcing network compliance before allowing endpoints to connect to the network. Compliance rules are defined by the administration into a FortiGate Security Profiles. It contains the requirements the endpoint must satisfy prior to access the network. By forcing endpoints to match the security profile, FortiGate and FortiClient help to reduce the attack surface vector. In addition, FortiClient Security Fabric agent will feed FortiGate with telemetry data, enabling the automatic updates to the Security Fabric and providing comprehensive visibility of the endpoints.

These actions are complemented by the SentinelOne agent which employs dynamic behavior tracking and autonomous monitoring to keep the endpoint ahead of any advanced threat in real-time.

The joint solution combines SentinelOne's next generation total endpoint protection platform with Fortinet's best-in-class network security platform, to deliver unparalleled protection and security without compromise for your entire deployment.

## Architecture Overview

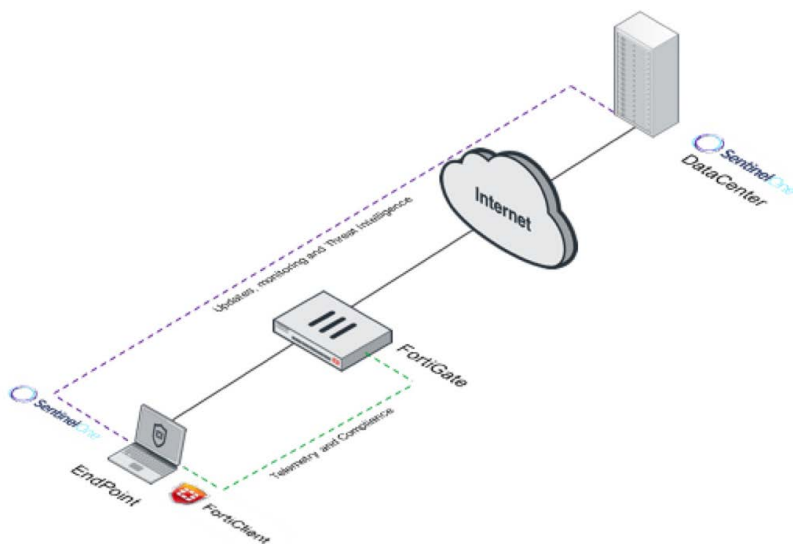


Figure 1: This topology shows the interactions of the two agents.

FortiClient Security Fabric agent registers on FortiGate and gets the FortiClient Security Profile in order to perform its compliance checks. It sends regular keep alive messages including telemetry information aiming to feed the Security Fabric computed by FortiGate.

SentinelOne agent connects to a dedicated server in the cloud from which it leverages cloud intelligence and machine learning to seamlessly adapt endpoint defenses against the latest malware, exploits and attacks.

## Deployment Prerequisites

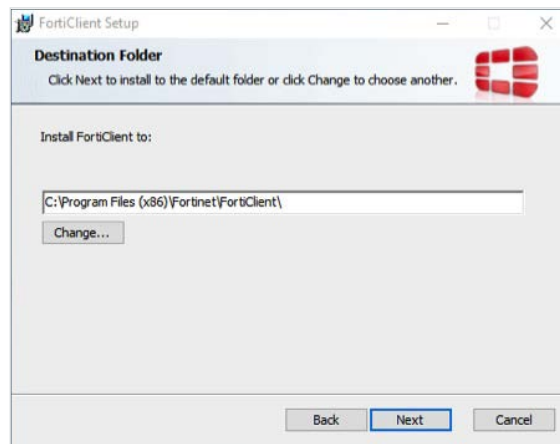
1. FortiGate appliance running FortiOS v5.6.0
2. FortiClient Software version 5.6.0 beta3
3. Credentials for accessing the SentinelOne cloud-based management portal from which will be downloaded SentinelOne Agent v1.8.4. URL of the portal is in the form <https://<customer>.sentinelone.net/>

## FortiClient Installation

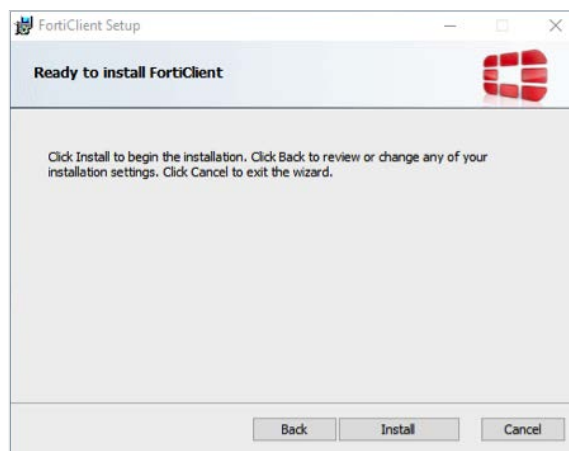
1. Download and run the FortiClient installer.
2. In window **Welcome to the FortiClient Setup Wizard**, check **Yes, I have read and accept the License Agreement**, click **Next**.



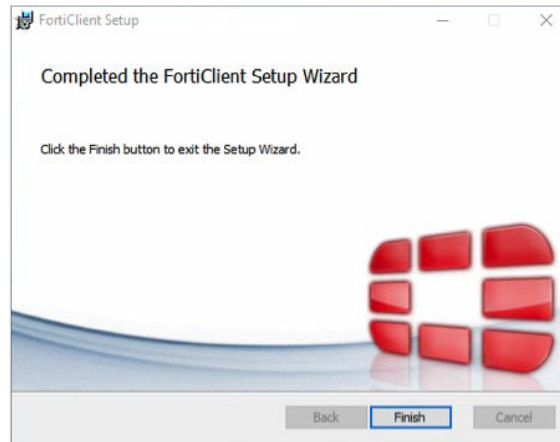
3. In window **Choose Setup Type**, uncheck **Secure Remote Access**, then click **Next**.
4. In window **Destination Folder**, click **Next**.



5. In window **Ready to install FortiClient**, click **Install**.



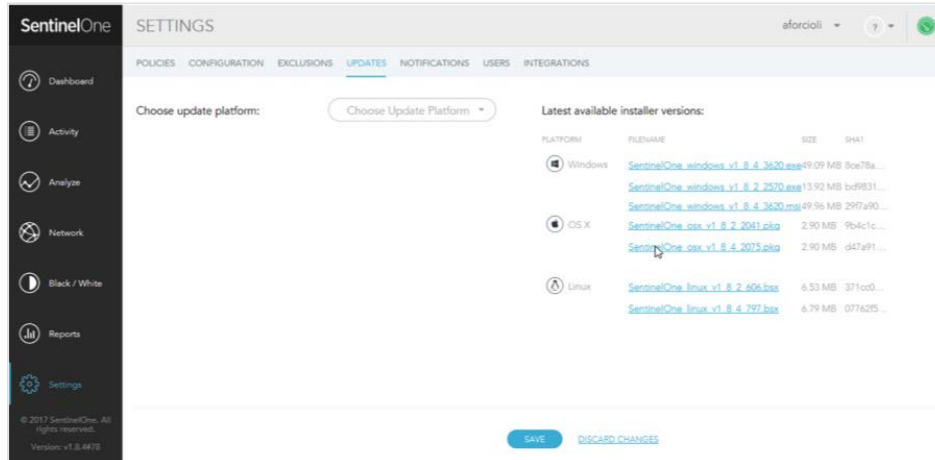
6. In window **Completed the FortiClient Setup Wizard**, click **Finish**.



## SentinelOne Installation

### Download the SentinelOne Agent Installer

1. Go to your SentinelOne cloud-based management portal.
2. Sign-in using your credentials.
3. Go to **Settings**.
4. Select tab **UPDATES**.
5. Download the SentinelOne Installer on your endpoint.

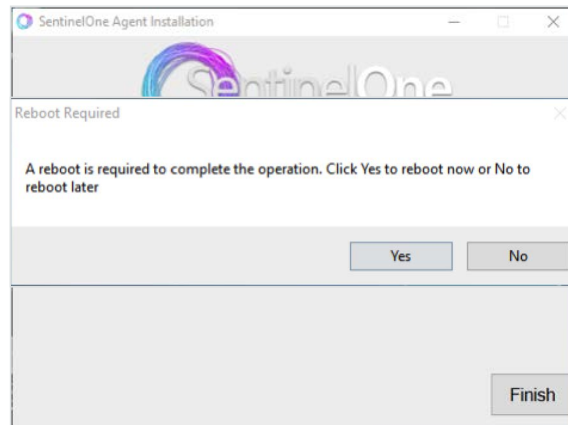


### Install the SentinelOne Agent

1. Run the SentinelOne installer.
2. Click **Install**.



3. Click **Finish**.



4. Click **Yes** in window **Reboot Required**.

## FortiGate Configuration

### Enforce Endpoint Telemetry and Compliance

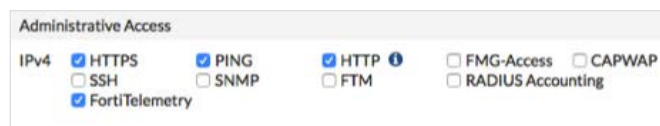
FortiGate needs the three following functionalities enabled in order to enforce compliance checking and gaining devices visibility in order to populate the Security Fabric:

- Telemetry service
- FortiClient On-Net status
- Device Detection
- FortiClient Compliance check enforcement

1. Go to **Network > Interfaces**

2. Edit the interface connected to the LAN network.

3. In section **Administrative Access**, enable **FortiTelemetry**.

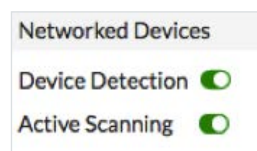


4. Enable **DHCP Server**

- Define an **Address Range**.



- Enable **FortiClient On-Net Status**.



- In section **Networked Devices**, enable **Device Detection** and **Active Scanning**.
- In section **Admission Control**, enable **Enforce FortiClient Compliant Check**.
- Click **OK**.

### FortiClient Security Profile Definition

The FortiClient Security Profile contains the compliance rules the endpoint must satisfy prior to be granted on the network.

- Go to **Security Profiles > FortiClient Profiles**
- Create a new profile with the parameters listed in the table below.
- Click **OK**.

<b>Profile name</b>	Corporate
<b>Assign profile to</b>	Windows PC
<b>On-Net Detection by address</b>	Disabled
<b>Endpoint Vulnerability Scan on client</b>	
<b>Vulnerability level</b>	High
<b>Non-compliance action</b>	Warning
<b>System compliance</b>	
<b>Minimum FortiClient version</b>	Enabled
<b>Window endpoints</b>	5.4.1
<b>Mac endpoints</b>	5.4.1
<b>Upload Logs to FortiAnalyzer</b>	Disabled
<b>Non-compliance action</b>	Warning
<b>Security posture check</b>	
<b>Realtime protection</b>	Disabled
<b>Third party AntiVirus on windows</b>	Enabled
<b>Web filter</b>	Disabled
<b>Application firewall</b>	Disabled
<b>Non-compliance action</b>	Warning

**Edit FortiClient Profile**

Profile Name:

Comments:

Assign Profile To:

On-Net Detection By Address:

Endpoint Vulnerability Scan on Client

Vulnerability level:

Non-compliance action:

System Compliance

Minimum FortiClient version:

Windows endpoints:

Mac endpoints:

Upload Logs to FortiAnalyzer:

Non-compliance action:

Security Posture Check

Realtime Protection:

Third party AntiVirus on Windows:

Web Filter:

Application Firewall:

Non-compliance action:

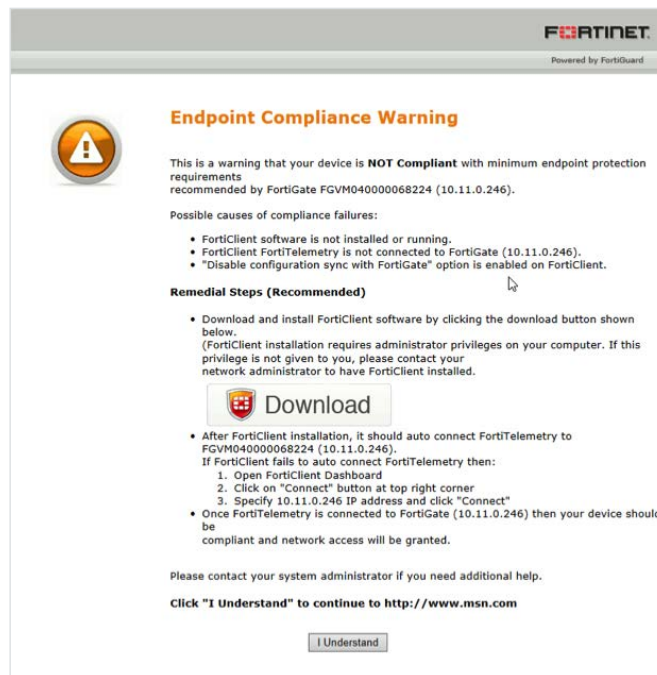
The new profile appears before the default one.

Seq.#	FortiClient Profile	Assign To	Comments	Non-Compliance Action
1	corporate	Windows PC		Warning
2	default	All Other Registered Clients		Warning

## Check the FortiClient Security Fabric Agent

FortiGate is configured to enforce FortiClient compliance check. As such, it prevents connected devices, which are not registered, to access the Internet.

Users who attempt to navigate the Internet will be presented with a warning page in their browser.



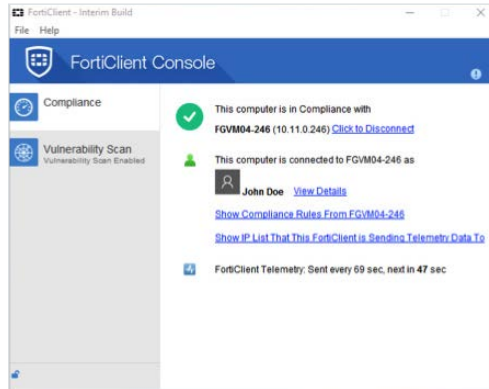
FortiGate sends FortiTelemetry probes on the LAN network on a regular basis. Once FortiClient is started it detects these probes and displays a registration popup the user has to accept in order to register.



Once registered, FortiGate sends the FortiClient Security profiles which has been defined. FortiClient performs the required checks and transmits the result to FortiGate which decides whether or not the device is compliant.

Open FortiClient Console and go the Compliance tab in order to check your compliance status. A compliant registered endpoint should display this window.



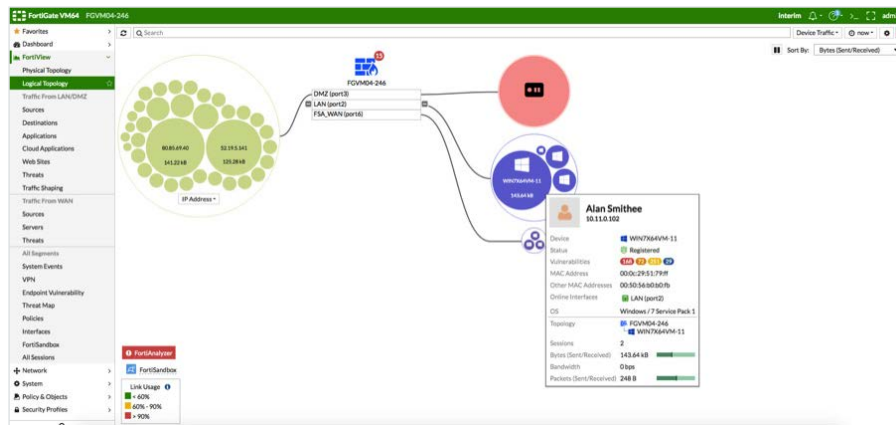


**Note:** it is possible to configure the solution for a transparent and automatic registration.

FortiGate FortiView drill-down pages are useful to view the relevant information in the Security Fabric. For instance the logical view gives the detected topology and a mouse over one of the detected device gives you the elements collected by FortiGate.

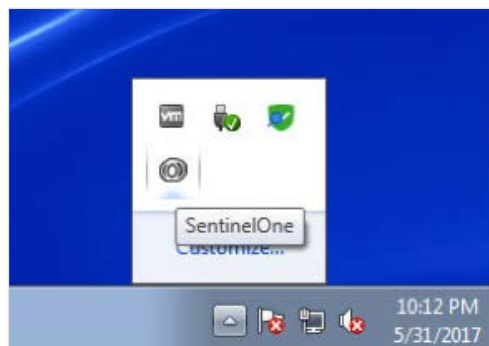
In the following screenshot, the detail for our endpoint is displayed. We can review some information like the user name, avatar, IP and MAC address, etc. More interesting we can also notice its vulnerability result.

From here it is possible to drill down. For instance, you can right click and access the details of the detected vulnerability.

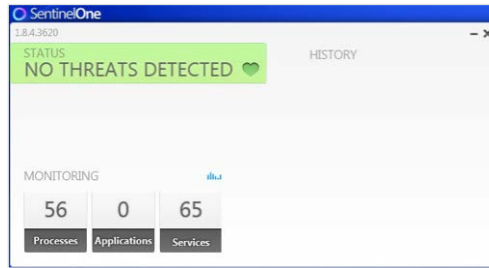


## Check the SentinelOne Agent

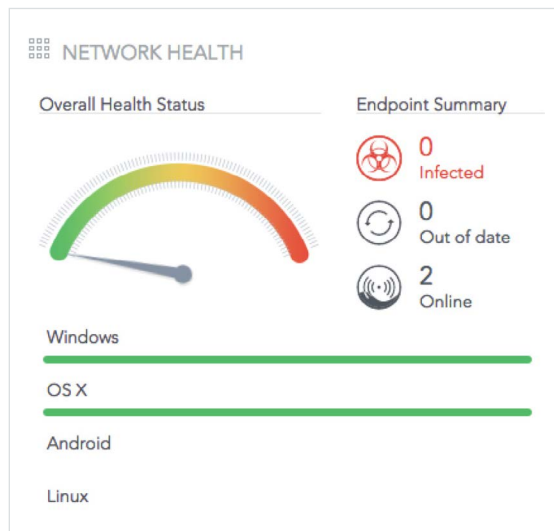
SentinelOne agent console can be opened with a right click on the its icon into the Windows task bar.



It displays essential information related to endpoint security.



You can access more information from the cloud-based management portal. In the screenshot below, we clicked on the SentinelOne dashboard from which there is the **Network Health** widget.



Then we clicked on **2 Online** and we selected our deployed endpoint. The next screenshot shows the information collected by the agent and transmitted to the SentinelOne Management Console.

