

# **Sophos Endpoint Security and Control**

Sophos Endpoint Security and Control 10.3

**Sophos Anti-Virus** HIPS (Host Intrusion Prevention System) Rootkit

**Sophos Behavior Monitoring** HIPS Windows

**Sophos Live Protection** Sophos

**Sophos Web Protection** Sophos

**Sophos Application Control** IP

**Sophos Device Control**

**Sophos Data Control**

**Sophos Web Control**

**Sophos Client Firewall**

**Sophos AutoUpdate**

**Sophos Tamper Protection** Sophos Endpoint Security and Control Sophos

# **Sophos Endpoint Security and Control**

Sophos Endpoint Security and Control

# Sophos

Sophos Endpoint Security and Control Sophos

Sophos Endpoint Security and Control Windows Sophos

Windows	Sophos
Administrators	SophosAdministrator
Power Users	SophosPowerUser
	SophosUser

Sophos

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## SophosUsers

SophosUsers

- Sophos Endpoint Security and Control
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## SophosPowerUsers

SophosPowerUsers SophosUsers

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## SophosAdministrators

## SophosAdministrators    Sophos Endpoint Security and Control

### SophosAdministrator

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# Sophos

Windows Administrators Sophos  
Security and Control

Sophos Endpoint

Sophos

1. Windows
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- 3.
- 4.
5. Sophos
  - **SophosAdministrator**
  - **SophosPowerUser**
  - **SophosUser**
6. Sophos

Sophos Endpoint Security and Control

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- Sophos



Sophos Anti-Virus





Sophos 114345 ( <http://www.sophos.com/en-us/support/knowledgebase/114345.aspx>)

HIPS Sophos 12790  
<http://www.sophos.com/en-us/support/knowledgebase/12790.aspx>

Sophos Endpoint Security and Control

Sophos Anti-Virus

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1. > **HIPS** > **HIPS** > >

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SophosAdministrator

Sophos Endpoint Security and Control

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Sophos Endpoint Security and Control

1. > **HIPS** > **HIPS** > >

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Sophos Anti-Virus

Sophos Anti-Virus

Sophos Endpoint Security and Control

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## Sophos Endpoint Security and Control

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## Sophos Endpoint Security and Control

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Sophos Anti-Virus Windows

C:\Documents\CV.doc

\\Server\Users\Documents\CV.doc

8.3 (8.3-compliant file and folder names)

C:\Program Files\Sophos\Sophos Anti-Virus

C:\Progra~1\Sophos\Sophos~1

<http://www.sophos.com/en-us/support/knowledgebase/13045.aspx>

spacer.gif

C:

\\Server\\



D:\Tools\logs

\Tools\logs

C:\Tools\logs

\\Server\Tools\logs

logs
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? \*

?

? file?? .txt file.txtfile1.txt file12.txt file123.txt

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file.\*

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file.txt\*

file.\*txt



MySample.txt.doc = MySample.txt + .doc

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## Sophos Endpoint Security and Control

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## Sophos Endpoint Security and Control

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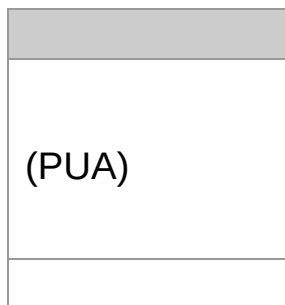
## Sophos Endpoint Security and Control

### Sophos Anti-Virus

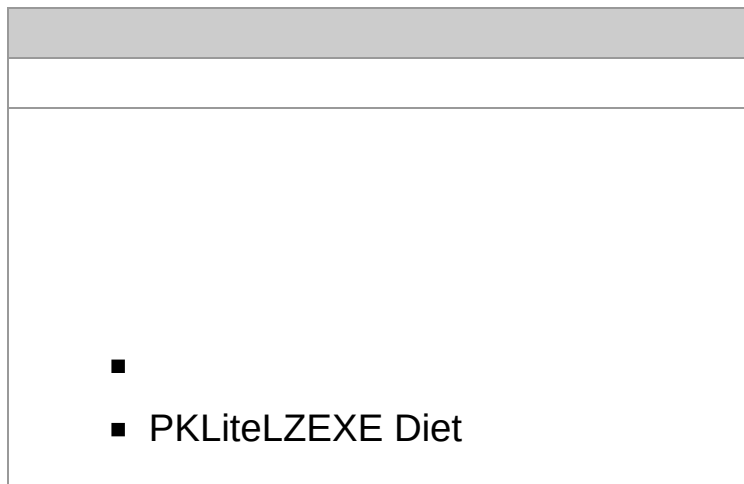
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Sophos Endpoint Security and Control

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Sophos Endpoint Security and Control

Sophos Anti-Virus

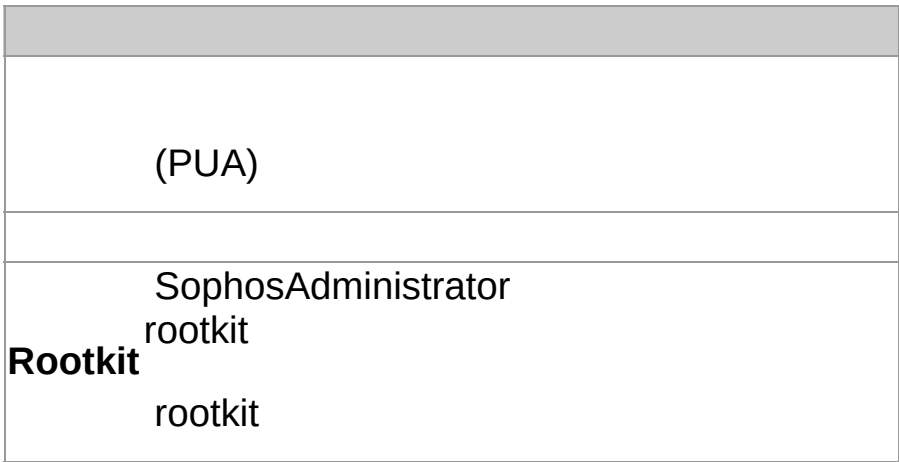
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- (PUA)
- rootkit

1. **HIPS**

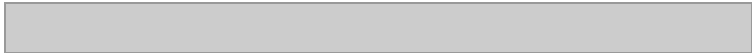
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- PKLiteLZEXE Diet

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Windows Vista

Sophos Endpoint Security and Control

1. **HIPS**

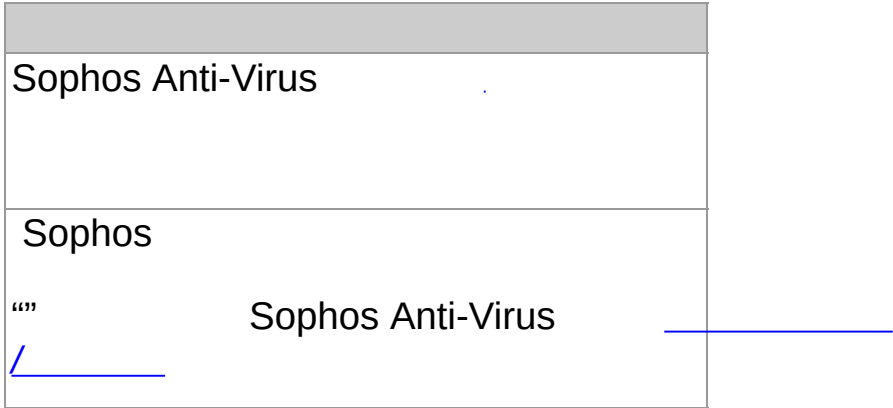
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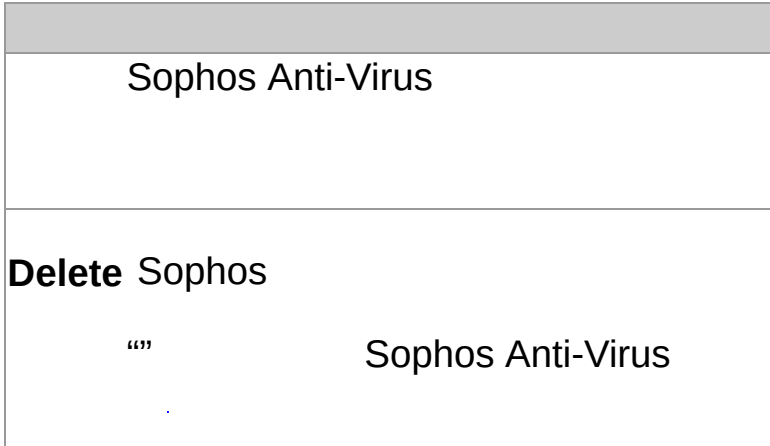
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**PUA**

**/PUA**

- Sophos PUA

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## SophosAdministrator

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**HIPS**

**Sophos Endpoint Security and Contro**





## Sophos Behavior Monitoring Windows “

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Sophos (HIPS)

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## Sophos Endpoint Security and Control

### SophosAdministrator

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## Sophos Endpoint Security and Control

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SophosAdministrator

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## Sophos Endpoint Security and Control

### SophosAdministrator

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## **Sophos Live Protection**

Sophos Live Protection Sophos Anti-Virus

Sophos Live Protection Sophos

Sophos Live Protection

- **Live Protection**

(IDE) Sophos

SophosLabs

- **Sophos**

Sophos Sophos

Sophos

# Sophos Live Protection

Sophos Endpoint Security and Control

SophosAdministrator Sophos Live Protection

1. > **HIPS** > **HIPS** > > **Sophos Live Protection**
2. **Sophos Live Protection**
  - Sophos **Live Protection**
  - Sophos **Sophos**  
**Live Protection**



Sophos

# Sophos Live Protection

Sophos

Sophos Live Protection

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- **HIPS** **HIPS**

# Sophos Web Protection

Sophos Web Protection Sophos URL

- IE
- Firefox
- Google Chrome
- Safari
- Opera

## Sophos Endpoint Security and Control

1. > **HIPS** > **HIPS** > >

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## Sophos Endpoint Security and Control

SophosAdministrator

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## Sophos Endpoint Security and Control

### Sophos Anti-Virus

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## Sophos Endpoint Security and Control

### Sophos Anti-Virus

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## Sophos Endpoint Security and Control

1. > **HIPS** > **HIPS** > >
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## Sophos Endpoint Security and Control

Sophos URL Sophos

1. > **HIPS** > **HIPS** > >
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# Quarantine manager

1

Show: All items

Type	Name 2	Details 3	Available actions 4
Virus/spyware	EICAR-AV-Test	C:\Documents and Settings...\eicar.com [more...]	Clean up

5

6

7

8

Select all Deselect all Clear from list

9

Perform action

1	
2	Sophos
3	rootkit rootkit
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1. **HIPS**

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Sophos Anti-Virus

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1. **HIPS**

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Sophos Anti-Virus

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- Sophos Anti-Virus
- Windows Administrators SophosAdministrator



1. **HIPS**

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Sophos Anti-Virus Sophos

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Sophos Anti-Virus Sophos

## Sophos Endpoint Security and Control

### Sophos Anti-Virus

1. > **HIPS** > **HIPS** > >
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### Sophos Anti-Virus

### Sophos Anti-Virus

## Windows 8



Sophos Endpoint Security and Control

Sophos Anti-Virus

- 1. > **HIPS** > **HIPS** > >
- 2.

Sophos Anti-Virus

Sophos Anti-Virus                  Sophos Anti-Virus

Sophos Anti-Virus

**SMTP**

SMTP

SMTP	
SMTP	SMTP IP                  SMTP
SMTP ""	
SMTP ""	

# SNMP

Sophos Endpoint Security and Control

Sophos Anti-Virus SNMP

1. > **HIPS** > **HIPS** > >
2. **SNMP**

## SNMP

Sophos Anti-Virus SNMP

Sophos Anti-Virus SNMP

Sophos Anti-Virus

Sophos Anti-Virus SNMP

## SNMP

IP

## SNMP

SNMP

SNMP SNMP

## Sophos Anti-Virus Windows

1. > **HIPS** > **HIPS** > >
- 2.

## Sophos Anti-Virus Windows

Sophos Anti-Virus

Sophos Anti-Virus

Sophos Anti-Virus

<b>Windows Vista, Windows 7, Windows 8, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012</b>	C:\ProgramData\Sophos\Sophos Anti-Virus\logs\SAV.txt
<b>Windows</b>	C:\Documents and Settings\All Users\Application Data\Sophos\Sophos Anti-Virus\logs\SAV.txt

1. > **HIPS** > **HIPS** >
- 2.

**HIPS**

**HIPS**

# Sophos Endpoint Security and Control

*(short range)*

- USB PC
- CD-ROM/DVD/Blu-ray
- 
- USB



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- Wi-Fi 802.11

**(short range)**

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- (IrDA

- MTP/PTP

## Sophos Endpoint Security and Control

SophosAdministrator CD

- 1.
2. **Sophos Device Control**

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Sophos Endpoint Security and Control

SophosAdministrator

## Sophos Endpoint Security and Control

SophosAdministrator

- 1.
2. **Sophos Data Control**



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- DOS
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Sophos Web Control



Sophos Endpoint Security and Control

SophosAdministrator

## Sophos Endpoint Security and Control

SophosAdministrator

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Windows 8

## Sophos Endpoint Security and Control

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- ICMP
- LAN
- FTP
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SophosAdministrator

Sophos Endpoint Security and Control

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## Sophos Endpoint Security and Control

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## FTP

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# FTP

FTP FTP

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FTP

Sophos

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2. > > **FTP**

**LAN**

LAN

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3. **LAN**

- **LAN** LAN
- IP



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5. **LAN**

- LAN LAN

# LAN

LAN

LAN

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3. LAN

- LAN LAN
- IP

Windows 8

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5. LAN LAN NetBIOS LAN

LAN (LAN)

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LAN LAN

## NetBIOS

1. **LAN** (LAN) NetBIOS
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**LAN** (LAN)

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**LAN LAN**

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## IPv6

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- Windows 7

**IPv6**

- Windows 8

**IPv6**

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- Windows 7
- Windows 8

## Windows 8 “Sophos Anti-Virus HIPS”

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- 64 Windows
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# ICMP

Internet (ICMP) ICMP

ICMP ICMP

[ICMP](#)

ICMP

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3. **ICMP**

- Windows 7
- Windows 8 ICMP

**ICMP**



IP TCP/IP

**ping**

**IPv4**

IP

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## Sophos Client Firewall

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Sophos

<http://www.sophos.com/en-us/support/knowledgebase/57757.aspx>

## LAN

## LAN

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- **NetBIOS**

TCP	137-139 445
TCP	137-139 445
UDP	137 138
UDP	137 138

## LAN

### 1. LAN NetBIOS

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Windows 8

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- TCP

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Windows 8

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## Windows 8 “Sophos Anti-Virus HIPS”

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## Sophos Client Firewall

- VPN
- ISP

ISP

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DNS

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**Sophos Endpoint Security and Control**  
**Both**

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<b>DNS</b>	IP
<b>MAC</b>	MAC

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## Sophos Client Firewall

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CSV

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CSV

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Sophos AutoUpdate 10 60

Sophos AutoUpdate 60

Sophos Endpoint Security and Control

## Sophos Endpoint Security and Control

### Sophos Anti-Virus

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3.           Sophos AutoUpdate

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Sophos AutoUpd



## Sophos AutoUpdate Sophos Anti-Virus

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## Sophos AutoUpdate

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## Sophos AutoUpdate

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Sophos AutoUpdate

## Sophos AutoUpdate

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Sophos AutoUpdate

## Sophos Anti-Virus

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“Sophos Anti-Virus” 4



## **SophosUsers SophosPowerUsers**

SophosUser SophosPowerUser

SophosUsers SophosPowerUsers

Sophos [Sophos](#)

## **SophosAdministrators**

SophosAdministrator

Sophos Endpoint Security and Control

SophosAdministrator

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- "" Sophos Endpoint Security and Control Sophos Anti-VirusSophos Client FirewallSophos AutoUpdate Sophos Remote Management System
- "" Sophos SafeGuard Disk Encryption

SophosAdministrator

SophosAdministrators

## Sophos Endpoint Security and Control

Sophos Endpoint Security and Control SophosAdministrator

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## Sophos Endpoint Security and Control

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Sophos Endpoint Security and Control Sophos Endpoint  
Security and Control

Sophos Endpoint Security and Control

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# Sophos

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- Sophos Endpoint Security and Control Sophos Anti-Virus  
Sophos Client FirewallSophos AutoUpdateSophos Remote  
Management System
- Sophos SafeGuard Disk Encryption

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SophosAdministrator

- [Sophos Endpoint Security and Control](#)
- [Sophos Endpoint Security and Control](#)
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# **Sophos Endpoint Security and Control**

Sophos Endpoint Security and Control

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Sophos Anti-Virus

## Sophos Anti-Virus

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## Sophos Anti-Virus

1. [Sophos Anti-Virus](#)
2. [Sophos Anti-Virus](#)

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## **NTFS**

NTFS Windows XP

Sophos Anti-Virus



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Sophos Anti-Virus

**(PUA)**

Sophos Anti-Virus PUA

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## Sophos Endpoint Security and Control

### Sophos Anti-Virus

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# Sophos Endpoint Security and Control

Sophos Endpoint Security and Control Sophos

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- HIPS

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## Sophos Endpoint Security and Control

1. Windows

2.

- HIPS                    **Sophos Anti-Virus**
- **Sophos Client Firewall Manager**

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“ Sophos Client Firewall ”



## Windows Administrators

1. Windows
2. **Sophos Client Firewall Manager**
3. "" C:\Documents and Settings\All Users\Application Data\Sophos\Sophos Client Firewall\logs  
""
4. op\_data.mdb
5. "" **Sophos Client Firewall Manager**

■

**(adware and PUAs)**

PUA (Potentially Unwanted Application)

**(application rule)**

**(Authorization manager)**

**(blocked)**

ICMP

**(buffer overflow detection)**

**(checksum)**

(PUA)

**(CCL) (Content Control List (CCL))**

SophosLabs

**(content rule)**

(destination)

**(controlled application)**

**(custom rule)**

Webmail

**(data view)**

**(description bar)**

**(device control)**

**(extensive scanning)**

**(firewall event)**

**(firewall policy)**

**(global rules)**

“ (LAN)”

**(hidden process)**

**(high-priority global rule)**

**(HIPS)**

**ICMP**

"Internet Control Message Protocol"(Internet ) IP

**ICMP (ICMP settings)**

ICMP

**(instant messaging)**

MSN

**(learning dialog)**

**(log cleanup settings)**

**(log viewer)**

**(match)**

**NetBIOS/**

/Network Basic Input/Output System I/O  
Windows (LAN) NetBIOS

**(network protocol)**

**(non-interactive mode)**

**(normal scanning)**

**(on-access scan)**

Sophos Anti-Virus

**(on-demand scan)**

**(primary configuration)**

**(process settings)**

**(rawsocket)**

**(right-click scan)**

**rootkit**

**(scanning error)**

**(scheduled scan)**

**(secondary configuration)**

**Sophos Live Protection**

Sophos

**(stateful inspection)**

TCP and UDP

**(storage device)**

USB PC CD/DVD SanDisk

Cruzer Enterprise Kingston Data Traveller IronKey Enterprise

IronKey Basic USB

**(suspicious behavior detection)**

**(suspicious file)**

**(system memory)**

**(system rule)**

**(tamper protection)**

Sophos Endpoint Security and Control Sophos

**(threat event)**

**(tree view)**

**(true file type)**

**(trusted application)**

**(unidentified virus)**

**(unknown traffic)**

**(IDE) (virus identity file (IDE))**

Sophos Anti-Virus

**IP (Voice over IP)**

IP

**(working mode)**





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## ICU

ICU version 1.8.1 or later

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