

Provide a copy of your syslog or equivalent configuration on your Linux machine. Provide a copy of your log rotation. Obtain a legal program to analyze your log files. Run your log file analyzer

preuss : bash

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```
preuss@msctlinux:~> su  
Password:  
msctlinux:/home/preuss #
```

We need to be root.

preuss : bash

preuss : bash

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```
preuss@msctclinux:~> su
Password:
msctclinux:/home/preuss # cat /var/log/messages
```

preuss : bash

preuss : bash

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```

Feb  8 19:36:54 msctclinux su: (to root) preuss on /dev/pts/2
Feb  8 19:37:34 msctclinux su: (to root) preuss on /dev/pts/2
Feb  8 19:37:34 msctclinux su: (to root) preuss on /dev/pts/2
Feb  8 19:45:20 msctclinux dhcpcd[3621]: eth1: renewing lease of 192.168.32.128
Feb  8 19:45:20 msctclinux dhcpcd[3621]: eth1: leased 192.168.32.128 for 1800 seconds
Feb  8 19:45:20 msctclinux dhcpcd[3621]: eth1: adding IP address 192.168.32.128/24
Feb  8 19:45:20 msctclinux dhcpcd[3621]: eth1: adding default route via 192.168.32.2 metric 0
Feb  8 19:45:20 msctclinux ifup:      eth1      device: Advanced Micro Devices [AMD] 79c970 [PCnet32 LANCE
] (rev 10)
Feb  8 19:45:21 msctclinux suSEfirewall2: Setting up rules from /etc/sysconfig/susefirewall2 ...
Feb  8 19:45:21 msctclinux suSEfirewall2: using default zone 'ext' for interface eth1
Feb  8 19:45:21 msctclinux suSEfirewall2: batch committing...
Feb  8 19:45:21 msctclinux suSEfirewall2: Firewall rules successfully set
Feb  8 19:45:21 msctclinux dns-resolver: ATTENTION: You have modified /etc/resolv.conf. Leaving it untouch
ed...
Feb  8 19:45:21 msctclinux dns-resolver: You can find my version in /etc/resolv.conf.netconfig
Feb  8 19:45:21 msctclinux dhcpcd-hook: ATTENTION: You have modified /etc/resolv.conf. Leaving it untouch
ed...
Feb  8 19:45:21 msctclinux dhcpcd-hook: You can find my version in /etc/resolv.conf.netconfig ...
Feb  8 19:45:21 msctclinux syslog-ng[1584]: Configuration reload request received, reloading configuratio
n;
Feb  8 19:45:21 msctclinux syslog-ng[1584]: New configuration initialized;
Feb  8 19:48:07 msctclinux kernel: klogd 1.4.1, ----- state change -----
Feb  8 19:49:43 msctclinux su: (to root) preuss on /dev/pts/0

```

msctclinux:/home/preuss #

preuss : bash

preuss : bash

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```

Feb  8 19:36:54 msctclinux su: (to root) preuss on /dev/pts/2
Feb  8 19:37:34 msctclinux su: (to root) preuss on /dev/pts/2
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Feb  8 19:45:21 msctclinux suSEfirewall2: batch committing...
Feb  8 19:45:21 msctclinux suSEfirewall2: Firewall rules successfully set
Feb  8 19:45:21 msctclinux dns-resolver: ATTENTION: You have modified /etc/resolv.conf. Leaving it untouc
hed...
Feb  8 19:45:21 msctclinux dns-resolver: You can find my version in /etc/resolv.conf.netconfig
Feb  8 19:45:21 msctclinux dhcpcd-hook: ATTENTION: You have modified /etc/resolv.conf. Leaving it untouc
hed...
Feb  8 19:45:21 msctclinux dhcpcd-hook: You can find my version in /etc/resolv.conf.netconfig ...
Feb  8 19:45:21 msctclinux syslog-ng[1584]: Configuration reload request received, reloading configuratio
n;
Feb  8 19:45:21 msctclinux syslog-ng[1584]: New configuration initialized;
Feb  8 19:48:07 msctclinux kernel: klogd 1.4.1, ----- state change -----
Feb  8 19:49:43 msctclinux su: (to root) preuss on /dev/pts/0

```

msctclinux:/home/preuss # cat /etc/logrotate.conf

preuss : bash



Securing Your Web World

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Unix/Linux version 2.3

OSSEC for Linux, Solaris, *BSD, Mac and variant
[ossec-hids-2.3.tar.gz](#) [Sig](#) - [Checksum](#) - [License](#)
 Installation instructions [here](#).

This program will do the log analysis for us.

Windows agent version 2.3

OSSEC for Windows 2000,XP, 2003 and Vista:

RECENT ENTRIES

- >OSSEC v2.3 released Dec 7
- >Survey & get a free shirt! Nov 13
- >Week of OSSEC Oct 31
- >OSSEC v2.2 released Sep 8
- (Archives)

SHORTCUTS


- >Getting Started
- >First steps
- >Manual | Wiki
- >Commercial Support

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http://www.ossec.net/main/downloads/

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Unix/Linux version 2.3

OSSEC for Linux, Solaris, *BSD

[ossec-hids-2.3.tar.gz](#) [Signature](#)

Installation instructions [here](#).

Windows agent version 2.3

OSSEC for Windows 2000, XP, 2003 and Vista:

- >Getting Started
- >First steps
- >Manual | Wiki
- >Commercial Support

Opening ossec-hids-2.3.tar.gz

You have chosen to open

ossec-hids-2.3.tar.gz

which is a: GZ file

from: http://www.ossec.net

What should Firefox do with this file?

Open with

Save File

Do this automatically for files like this from now on.

Cancel OK

Desktop Folder



Firefox



ossec-hids-2.3.tar.gz

bin - Konqueror

File Edit View Go Bookmarks Tools Settings Window Help

Navigation icons: back, forward, up, refresh, stop, home, search

Address bar: /home/preuss/bin

Location: SUSE

Files: iperf-2.0.4 (folder), iperf-2.0.4.tar.gz (TGZ)

Yellow note: We move the tar.gz to /home/preuss/bin.


```

preuss : bash
File Edit View Scrollback Bookmarks Settings Help
uncompresscmd /usr/bin/bunzip2

# former versions had to have the compressext set accordingly
#compressext .bz2

# no packages own wtmp and btmp -- we'll rotate them here
#/var/log/wtmp {
#   monthly
#   create 0664 root utmp
#       minsize 1M
#   rotate 1
#)
#
# /var/log/btmp {
#   missingok
#   monthly
#   create 0600 root utmp
#   rotate 1
#)

# system-specific logs may be also be configured here.
msctclinux:/home/preuss # cd bin
msctclinux:/home/preuss/bin # ls
iperf-2.0.4 iperf-2.0.4.tar.gz ossec-hids-2.3.tar.gz
msctclinux:/home/preuss/bin # tar xzvf ossec-hids-2.3.tar.gz █

```

We are unzipping and untar the ossecfile.

```
preuss : bash
```

```

preuss : bash
File Edit View Scrollback Bookmarks Settings Help
ossec-hids-2.3/contrib/specs/
ossec-hids-2.3/contrib/specs/server/
ossec-hids-2.3/contrib/specs/server/preloaded-vars.conf
ossec-hids-2.3/contrib/specs/server/ossec-hids-server.spec
ossec-hids-2.3/contrib/specs/local/
ossec-hids-2.3/contrib/specs/local/preloaded-vars.conf
ossec-hids-2.3/contrib/specs/local/ossec-hids-local.spec
ossec-hids-2.3/contrib/specs/getattr.pl
ossec-hids-2.3/contrib/specs/remove_ossec
ossec-hids-2.3/contrib/specs/agent/
ossec-hids-2.3/contrib/specs/agent/preloaded-vars.conf
ossec-hids-2.3/contrib/specs/agent/ossec-hids-agent.spec
ossec-hids-2.3/contrib/ossec2mysql.pl
ossec-hids-2.3/contrib/ossectop.pl
ossec-hids-2.3/contrib/compile_alerts.pl
ossec-hids-2.3/contrib/ossec_batch_manager.pl
ossec-hids-2.3/contrib/ossec_report.txt
ossec-hids-2.3/contrib/ossec2mysql.sql
ossec-hids-2.3/contrib/ossecmysql.pm
ossec-hids-2.3/contrib/compile_alerts.txt
ossec-hids-2.3/contrib/config2xml
ossec-hids-2.3/contrib/add_localfile.sh
msctclinux:/home/preuss/bin # ls
iperf-2.0.4 iperf-2.0.4.tar.gz ossec-hids-2.3 ossec-hids-2.3.tar.gz
msctclinux:/home/preuss/bin # cd ossec-hids-2.3/

```

```
preuss : bash
```

```

preuss : bash
File Edit View Scrollback Bookmarks Settings Help
ossec-hids-2.3/contrib/specs/server/ossec-hids-server.spec
ossec-hids-2.3/contrib/specs/local/
ossec-hids-2.3/contrib/specs/local/preloaded-vars.conf
ossec-hids-2.3/contrib/specs/local/ossec-hids-local.spec
ossec-hids-2.3/contrib/specs/getattr.pl
ossec-hids-2.3/contrib/specs/remove_ossec
ossec-hids-2.3/contrib/specs/agent/
ossec-hids-2.3/contrib/specs/agent/preloaded-vars.conf
ossec-hids-2.3/contrib/specs/agent/ossec-hids-agent.spec
ossec-hids-2.3/contrib/ossec2mysql.pl
ossec-hids-2.3/contrib/ossectop.pl
ossec-hids-2.3/contrib/compile_alerts.pl
ossec-hids-2.3/contrib/ossec-batch-manager.pl
ossec-hids-2.3/contrib/ossec_report.txt
ossec-hids-2.3/contrib/ossec2mysql.sql
ossec-hids-2.3/contrib/ossecmysql.pm
ossec-hids-2.3/contrib/compile_alerts.txt
ossec-hids-2.3/contrib/config2xml
ossec-hids-2.3/contrib/add_localfile.sh
msctclinux:/home/preuss/bin # ls
iperf-2.0.4 iperf-2.0.4.tar.gz ossec-hids-2.3 ossec-hids-2.3.tar.gz
msctclinux:/home/preuss/bin # cd ossec-hids-2.3/
msctclinux:/home/preuss/bin/ossec-hids-2.3 # ls
active-response BUGS CONFIG contrib CONTRIB doc etc INSTALL install.sh LICENSE README src
msctclinux:/home/preuss/bin/ossec-hids-2.3 # ./install.sh

```

We are beginning the ossec installation.

```
preuss : bash
```

```

preuss : install.sh
File Edit View Scrollback Bookmarks Settings Help
ossec-hids-2.3/contrib/compile_alerts.txt
ossec-hids-2.3/contrib/config2xml
ossec-hids-2.3/contrib/add_localfile.sh
msctclinux:/home/preuss/bin # ls
iperf-2.0.4 iperf-2.0.4.tar.gz ossec-hids-2.3 ossec-hids-2.3.tar.gz
msctclinux:/home/preuss/bin # cd ossec-hids-2.3/
msctclinux:/home/preuss/bin/ossec-hids-2.3 # ls
active-response BUGS CONFIG contrib CONTRIB doc etc INSTALL install.sh LICENSE README src
msctclinux:/home/preuss/bin/ossec-hids-2.3 # ./install.sh

** Para instalação em português, escolha [br].
** 要使用中文进行安装, 请选择 [cn].
** Für eine deutsche Installation wählen Sie [de].
** Για εγκατάσταση στα Ελληνικά, επιλέξτε [el].
** For installation in English, choose [en].
** Para instalar en Español , eliga [es].
** Pour une installation en français, choisissez [fr]
** Per l'installazione in Italiano, scegli [it].
** 日本語でインストールします。選択して下さい。 [jp].
** Voor installatie in het Nederlands, kies [nl].
** Aby instalować w języku Polskim, wybierz [pl].
** Для инструкций по установке на русском , введите [ru].
** Za instalaciju na srpskom, izaberi [sr].
** Türkçe kurulum için seçin [tr].
(en/br/cn/de/el/es/fr/it/jp/nl/pl/ru/sr/tr) [en]: █

```

The language is your choice.

```
preuss : install.sh
```

```
preuss : install.sh
File Edit View Scrollback Bookmarks Settings Help
OSSEC HIDS v2.3 Installation Script - http://www.ossec.net

You are about to start the installation process of the OSSEC HIDS.
You must have a C compiler pre-installed in your system.
If you have any questions or comments, please send an e-mail
to dcid@ossec.net (or daniel.cid@gmail.com).

- System: Linux msctclinux 2.6.27.42-0.1-default
- User: root
- Host: msctclinux

-- Press ENTER to continue or Ctrl-C to abort. --
█
```

```
preuss : install.sh
```

```

preuss : install.sh
File Edit View Scrollback Bookmarks Settings Help
OSSEC HIDS v2.3 Installation Script - http://www.ossec.net

You are about to start the installation process of the
You must have a C compiler pre-installed in your system.
If you have any questions or comments, please send an email
to dcid@ossec.net (or daniel.cid@gmail.com).

- System: Linux msctclinux 2.6.27.42-0.1-default
- User: root
- Host: msctclinux

-- Press ENTER to continue or Ctrl-C to abort. --

1- What kind of installation do you want (server, agent, local or help)? local

```

We chose local installation, it is easier.

```
preuss : install.sh
```

```

preuss : install.sh
File Edit View Scrollback Bookmarks Settings Help
OSSEC HIDS v2.3 Installation Script - http://www.ossec.net

You are about to start the installation process of the OSSEC HIDS.
You must have a C compiler pre-installed in your system.
If you have any questions or comments, please send an e-mail
to dcid@ossec.net (or daniel.cid@gmail.com).

- System: Linux msctclinux 2.6.27.42-0.1-default
- User: root
- Host: msctclinux

-- Press ENTER to continue or Ctrl-C to abort. --

1- What kind of installation do you want (server, agent, local or help)? local

- Local installation chosen.

2- Setting up the installation environment.

- Choose where to install the OSSEC HIDS [/var/ossec]: █

```

```
preuss : install.sh
```

```
preuss : install.sh
File Edit View Scrollback Bookmarks Settings Help
You must have a C compiler pre-installed in your system.
If you have any questions or comments, please send an e-mail
to dcid@ossec.net (or daniel.cid@gmail.com).

- System: Linux msctclinux 2.6.27.42-0.1-default
- User: root
- Host: msctclinux

-- Press ENTER to continue or Ctrl-C to abort. --

1- What kind of installation do you want (server, agent, local or help)? local

- Local installation chosen.

2- Setting up the installation environment.

- Choose where to install the OSSEC HIDS [/var/ossec]:

- Installation will be made at /var/ossec .

3- Configuring the OSSEC HIDS.

3.1- Do you want e-mail notification? (y/n) [y]: n
```

```
preuss : install.sh
```



```
preuss : install.sh
File Edit View Scrollback Bookmarks Settings Help
- System: Linux msctclinux 2.6.27.42-0.1-default
- User: root
- Host: msctclinux

-- Press ENTER to continue or Ctrl-C to abort. --

1- What kind of installation do you want (server, agent, local or help)? local

- Local installation chosen.

2- Setting up the installation environment.

- Choose where to install the OSSEC HIDS [/var/ossec]:

- Installation will be made at /var/ossec .

3- Configuring the OSSEC HIDS.

3.1- Do you want e-mail notification? (y/n) [y]: n

--- Email notification disabled.

3.2- Do you want to run the integrity check daemon? (y/n) [y]: █
```

```
preuss : install.sh
```

```

preuss : install.sh
File Edit View Scrollback Bookmarks Settings Help

-- Press ENTER to continue or Ctrl-C to abort. --

1- What kind of installation do you want (server, agent, local or help)? local

- Local installation chosen.

2- Setting up the installation environment.

- Choose where to install the OSSEC HIDS [/var/ossec]:

- Installation will be made at /var/ossec .

3- Configuring the OSSEC HIDS.

3.1- Do you want e-mail notification? (y/n) [y]: n

--- Email notification disabled.

3.2- Do you want to run the integrity check daemon? (y/n) [y]:

- Running syscheck (integrity check daemon).

3.3- Do you want to run the rootkit detection engine? (y/n) [y]: █

```

preuss : install.sh

```

preuss : install.sh
File Edit View Scrollback Bookmarks Settings Help

- Installation will be made at /var/ossec .

3- Configuring the OSSEC HIDS.

3.1- Do you want e-mail notification? (y/n) [y]: n

--- Email notification disabled.

3.2- Do you want to run the integrity check daemon? (y/n) [y]:

- Running syscheck (integrity check daemon).

3.3- Do you want to run the rootkit detection engine? (y/n) [y]:

- Running rootcheck (rootkit detection).

3.4- Active response allows you to execute a specific
command based on the events received. For example,
you can block an IP address or disable access for
a specific user.
More information at:
http://www.ossec.net/en/manual.html#active-response

- Do you want to enable active response? (y/n) [y]: █

```

```
preuss : install.sh
```

```
preuss : install.sh
File Edit View Scrollback Bookmarks Settings Help
3.3- Do you want to run the rootkit detection engine? (y/n) [y]:

- Running rootcheck (rootkit detection).

3.4- Active response allows you to execute a specific
      command based on the events received. For example,
      you can block an IP address or disable access for
      a specific user.
      More information at:
      http://www.ossec.net/en/manual.html#active-response

- Do you want to enable active response? (y/n) [y]:

- Active response enabled.

- By default, we can enable the host-deny and the
  firewall-drop responses. The first one will add
  a host to the /etc/hosts.deny and the second one
  will block the host on iptables (if linux) or on
  ipfilter (if Solaris, FreeBSD or NetBSD).

- They can be used to stop SSHD brute force scans,
  portscans and some other forms of attacks. You can
  also add them to block on snort events, for example.

- Do you want to enable the firewall-drop response? (y/n) [y]: █
```

```
preuss : install.sh
```

```
preuss : install.sh
File Edit View Scrollback Bookmarks Settings Help

a specific user.
More information at:
http://www.ossec.net/en/manual.html#active-response

- Do you want to enable active response? (y/n) [y]:

- Active response enabled.

- By default, we can enable the host-deny and the
firewall-drop responses. The first one will add
a host to the /etc/hosts.deny and the second one
will block the host on iptables (if linux) or on
ipfilter (if Solaris, FreeBSD or NetBSD).
- They can be used to stop SSHD brute force scans,
portscans and some other forms of attacks. You can
also add them to block on snort events, for example.

- Do you want to enable the firewall-drop response? (y/n) [y]:

- firewall-drop enabled (local) for levels >= 6

- Default white list for the active response:
- 192.168.5.1

- Do you want to add more IPs to the white list? (y/n)? [n]: █
```

```
preuss : install.sh
```

```
preuss : install.sh
File Edit View Scrollback Bookmarks Settings Help
portscans and some other forms of attacks. You can
also add them to block on snort events, for example.

- Do you want to enable the firewall-drop response? (y/n) [y]:

- firewall-drop enabled (local) for levels >= 6

- Default white list for the active response:
  - 192.168.5.1

- Do you want to add more IPs to the white list? (y/n)? [n]:

3.6- Setting the configuration to analyze the following logs:
-- /var/log/messages
-- /var/log/mail.info

- If you want to monitor any other file, just change
the ossec.conf and add a new localfile entry.
Any questions about the configuration can be answered
by visiting us online at http://www.ossec.net .

--- Press ENTER to continue ---

preuss : install.sh
```

preuss : install.sh

File Edit View Scrollback Bookmarks Settings Help

```
make[1]: Leaving directory `/home/preuss/bin/ossec-hids-2.3/src/external/zlib-1.2.3'
make[1]: Entering directory `/home/preuss/bin/ossec-hids-2.3/src/external/zlib-1.2.3'
cp -pr zlib.h zconf.h ../../headers/
cp -pr libz.a ../
make[1]: Leaving directory `/home/preuss/bin/ossec-hids-2.3/src/external/zlib-1.2.3'

*** Making os_xml ***

make[1]: Entering directory `/home/preuss/bin/ossec-hids-2.3/src/os_xml'
gcc -DXML_VAR=\"var\" -g -Wall -I../ -I../headers -DDEFAULTDIR=\"/var/ossec\" -DLOCAL -DUSEINOTIFY -
DARGV0=\"os_xml\" -DXML_VAR=\"var\" -DOSSECHIDS -c os_xml.c os_xml_access.c os_xml_node_access.c os_xml_v
ariables.c os_xml_writer.c
ar cru os_xml.a os_xml.o os_xml_access.o os_xml_node_access.o os_xml_variables.o os_xml_writer.o
ranlib os_xml.a
make[1]: Leaving directory `/home/preuss/bin/ossec-hids-2.3/src/os_xml'

*** Making os_regex ***

make[1]: Entering directory `/home/preuss/bin/ossec-hids-2.3/src/os_regex'
gcc -g -Wall -I../ -I../headers -DDEFAULTDIR=\"/var/ossec\" -DLOCAL -DUSEINOTIFY -DARGV0=\"os_regex\"
-DXML_VAR=\"var\" -DOSSECHIDS -c *.c -Wall
```

preuss : install.sh

```
preuss : install.sh
File Edit View Scrollback Bookmarks Settings Help
- System is Suse Linux.
- Init script modified to start OSSEC HIDS during boot.
- Configuration finished properly.
- To start OSSEC HIDS:
    /var/ossec/bin/ossec-control start
- To stop OSSEC HIDS:
    /var/ossec/bin/ossec-control stop
- The configuration can be viewed or modified at /var/ossec/etc/ossec.conf

Thanks for using the OSSEC HIDS.
If you have any question, suggestion or if you find any bug,
contact us at contact@ossec.net or using our public maillist at
ossec-list@ossec.net
( http://www.ossec.net/main/support/ ).

More information can be found at http://www.ossec.net

--- Press ENTER to finish (maybe more information below). ---

preuss : install.sh
```



```

preuss : bash
File Edit View Scrollback Bookmarks Settings Help
- Configuration finished properly.
- To start OSSEC HIDS:
    /var/ossec/bin/ossec-control start
- To stop OSSEC HIDS:
    /var/ossec/bin/ossec-control stop
- The configuration can be viewed or modified at /var/ossec/etc/ossec.conf

Thanks for using the OSSEC HIDS.
If you have any question, suggestion or if you find a bug, please
contact us at contact@ossec.net or using our public mailing list
ossec-list@ossec.net
( http://www.ossec.net/main/support/ ).

More information can be found at http://www.ossec.net

--- Press ENTER to finish (maybe more information below)

msctclinux:/home/preuss/bin/ossec-hids-2.3 # less /var/ossec/logs/alerts/alerts.log
/var/ossec/logs/alerts/alerts.log: No such file or directory
msctclinux:/home/preuss/bin/ossec-hids-2.3 # █

```

This file has our log analysis. It would be more interesting if the machine was running on the Internet for some time.

```
preuss : bash
```