

Sentora-paranoid version 1.0.0
by: Mario Rodríguez Somohano
sentora-paranoid@open-source.tk

Official web site: <http://sentora-paranoid.open-source.tk>

Forum: <http://forum.sentora-paranoid.open-source.tk>

Document versión: 1.0.0-150421

Thanks for choosing sentora-paranoid for your sentora hosting environment security solution

We've broken down the installation into many smaller steps. Don't worry if it looks daunting; if you need any help, just post a thread in the forum for the version you are running, and we will try to help you.

- Having trouble with sentora-paranoid? The support at the site forum is free and available to anyone using this software, supported by other members of the community!
- Must of sentora-paranoid packages are customizable to suit your site's needs, but please refer to the package documentation and package specific support for it.
- Best of all, sentora-paranoid is released under the GNU GPL Licence, and therefore it's enterily free! No forced advertisements, no cost, no sign-ups, no forced email subscriptions!
- You will require a web host to run your sentora panel secured by sentora-paranoid
- Your web host must satisfy a few basic requirements for sentora-paranoid to run properly.

Installation

Downloading the installers scripts

1. First, Install a new fresh linux distribution.
2. Execute the latest sentora installer from the [sentora project web page](#)
(you may need to install curl first)

```
>bash <(curl -Ss https://raw.githubusercontent.com/sentora/sentora-  
installers/master/sentora_install.sh)
```

- 3.Follow sentora installer instructions
- 4.Download or execute sentora-paranoid installer from the [sentora-paranoid web page](#)

```
>bash <(curl -Ss http://sentora-paranoid.open-source.tk/installers/1.0.0-  
yymmdd/sentora-paranoid.sh)
```

Replace *yymdd* for a valid release number (or use the dev-snapshot for current development test)

You will see the installation welcome screen which asks for some useful information for the server you are installing, as shown on figure 1, then you will be asked for start installation.

```
root@sentora:~# bash <<(curl -Ss http://sentora-paranoid.open-source.tk/installer
s/1.0.0-150113/sentora-paranoid.sh)
#####
# Welcome to sentora-paranoid, the unofficial Sentora security script #
#####

Checking that minimal requirements are ok
Detected : Ubuntu 14.04 32
Ok
  This OS is supported by sentora-paranoid team

Installing tree required to review file permissions
Selecting previously unselected package tree.
(Reading database ... 66274 files and directories currently installed.)
Preparing to unpack ../archives/tree_1.6.0-1_i386.deb ...
Unpacking tree (1.6.0-1) ...
Processing triggers for man-db (2.6.7.1-1ubuntu1) ...
Setting up tree (1.6.0-1) ...
Checking for preinstalled security packages
Ok

Some installations require more security than others, you may want to
have an unprivileged user to change configurations only, or you want to
have more than one administrator all of them belonging to an administration
group, so you have three choices to select user/group names below:

  adminuser/adminuser (which is in the sudoers list)
  adminuser/admingroup (adminuser is in the sudoers list)
  root/root (more secure but risky at the same time)

In doubt, please use the default values or root/root if you know what are you do
ing

Please enter administrative user name:
```

Figure 1: sentora-paranoid welcome screen

Administrative user/group:

The first thing that script will ask to you is the administrative user name and group you wish to use as administrative accounts, and there is three options:

- adminuser/adminuser: The user that perform sudo command (probably your user)
- adminuser/admingroup: The user that perform sudo command and sudoers group
- root/root: The root user

What is the appropriate selection? It depends on how you delegate administration, but here is a hint:

- a) If you are the only administrator you can write your unprivileged user and group (default)
- b) If there are more than one administrator and all of them belongs to an administrative group you need to write your username and the administration group
- c) You can choose root account as the only administrator, but be advised, there is no need to risk your server for mistakes using this account just only by change a simple configuration file.

Unsecure PHP functions

The system, exec and eval PHP functions are dangerous. Some specific installations may not require this functions enabled, some others need them to operate effectively, Unfortunately, various content management systems requires some of this functions. If you are unsure the best answer here is: NO, to keep enabled these php functions.

MTA virus scanner and content filters

Some hosting environments requires to handle a better mail security but we aware that virus scanners and content filters may require more CPU and RAM resources. You will be asked if you want to install a MTA virus scanner and content filters (not required for all installations).

MAC – Mandatory Access Control system (apparmor)

AppArmor is an effective and easy-to-use Linux security system, apparmor proactively protects the operating system and applications from external or internal threats by enforcing good behavior and preventing even unknown application flaws from being exploited. The main drawback is that this software may block legitimate applications and it's not quite user friendly for average user, for these reason this security feature will remain optional.

Sentora security modules

By default, modules can't be loaded without certain file system permissions, to allow modules installation you need to changes file system permissions manually, this will be improved in future sentora-paranoid script releases. By now the sentora-paranoid script has an experimental sentora module currently under development, you must not install security modules unless you were developing and testing this modules.

At this point the script is ready for installation.

Iptables-persistent configuration

It doesn't matter if you select yes or no, because proper iptables rules will be stored later during installation.

Note that you will be prompted for this twice, for ipv4 and for ipv6 settings.

clamav-base	0.98.5	anti-virus utility for Unix - base package
libclamav6	0.98.5	anti-virus utility for Unix - library
clamav-daemon	0.98.5	anti-virus utility for Unix - scanner daemon
clamav-freshclam	0.98.5	anti-virus utility for Unix - virus database update utility
sp-policyd	1.0.0	Postfix send rate limit per user/domain
libswitch-perl	2.16-2	Switch statement for Perl
libnet-dns-perl	0.68-1.2build1	Perform DNS queries from a Perl script
libmail-spf-perl	2.9.0-2	Perl implementation of Sender Policy Framework and Sender ID
pyzor	1:0.5.0-2fakesync1	spam-catcher using a collaborative filtering network
razor	1:2.85-4build2	spam-catcher using a collaborative filtering network
-decompressors-		arj bzip2 cabextract cpio gzip nomarch pax rar unrar unzip zip

See log files for preinstalled packages configurations changes.

temporary SSL certificates

The script generates two temporary certificates, one for CAroot and one for the server name you provided earlier. This certificates are used to provide SMTP, POP3, sFTP and HTTPS security.

```
-- Openssl certificates
Creating new CA please enter a new rootCA password and requested data
Generating RSA private key, 2048 bit long modulus
.....+++
.....+++
e is 65537 (0x10001)
Enter pass phrase for /etc/sentora/configs/sentora-paranoid/openssl/keys/root-ca
.key:█
```

Figure 3: Temporary SSL CA private key

CAroot password will be saved and will be recorded in /root/passwords.txt.

Remember CA and server certificates are temporary, you are encouraged to generate your own certificates and replace these ones.

Completed installation

Once the script ends a completed installation screen will be showed to you with relevant information, please take note of:

- Name of the log file and where is located
- MySQL user account and password (for sentora-paranoid processes)
- OpenSSL Caroot password (for sign temporary certificates)

```
#####
Congratulations sentora-paranoid has now been installed
on your server. Please review the log file for any error
encountered during installation.

Log file is located at:
/root/sentora-paranoid-1875.log
Tree files are located at: /root

MySQL: paranoid user password is:

For relevant information about security changes please
take a look for the NOTICE messages in log file or using
the following command:
grep "NOTICE" /root/sentora-paranoid-1875.log

#####
Restart your server now to complete the install (Y/n)? y
```

Figure 4: Reboot screen

There is a lot of important changes to the server configurations, you can review the script notices executing the grep command as follow:

```
> grep "NOTICE" <path of the log file>
```

And last, you need to reboot your server to changes take effect.

Troubleshooting

If you have any trouble please consider the forum to check for community solutions.
<http://forum.sentora-paranoid.open-source.tk/>