Installing an Esia Lite server

Installation

Prerequisites

To **MINIMUM** (depending on the number of services), a server or VM with :

- 4 cores (64 bits)
- 4 GB RAM
- 30 GB of disk space
- Debian 13 **Trixie** 64 bits (amd64) Downloadable ici

Here is the link for the step-by-step installation of Debian. When selecting software, I advise you to uncheck everything except '**SSH server**'.

Adding the esia repot

To install Esia on your server, you need to add our repository to the list of trusted repositories on your server. To do this, simply enter the following commands.

copy

```
apt install gpg wget
wget -qO- http://lite.repository.esia-sa.com/esia/trixie/gnupg.key
| gpg --dearmor > /etc/apt/keyrings/esia.gpg
chmod 755 /etc/apt/keyrings/esia.gpg
echo "deb [signed-by=/etc/apt/keyrings/esia.gpg]
http://lite.repository.esia-sa.com/esia trixie contrib non-free"
>> /etc/apt/sources.list
```

Install packages

Enter the following commands:

copy

```
apt-get update
apt-get install esia-lite-base -y
```

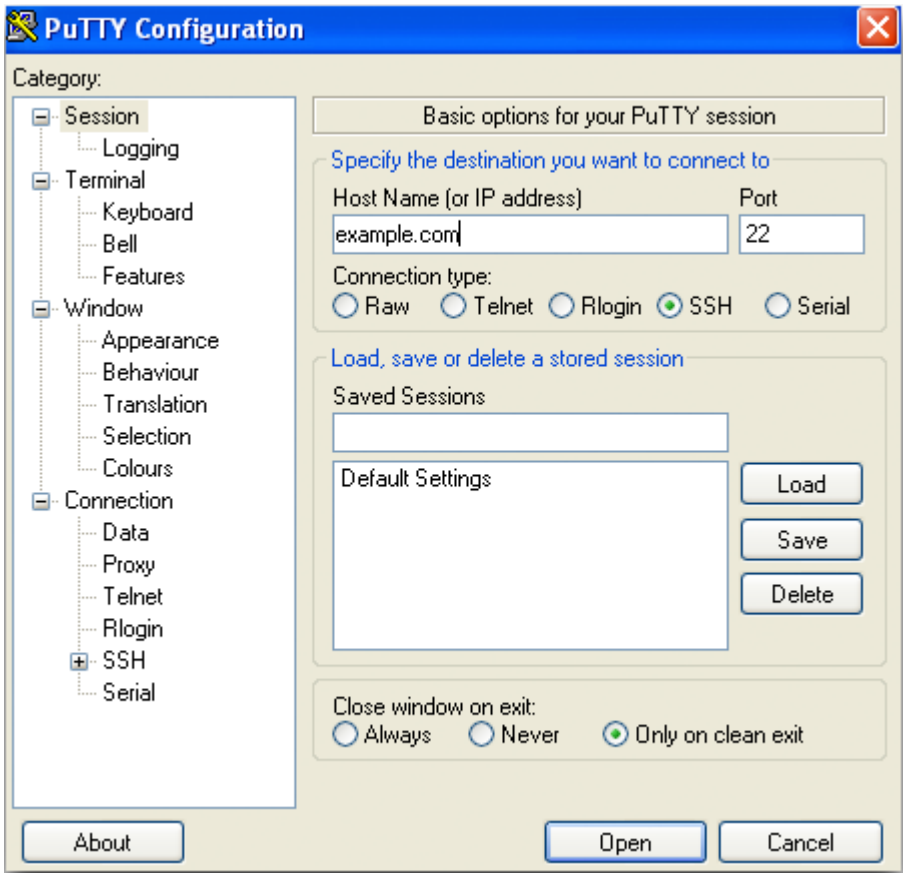
For remote access to your Esia

Via Windows

- via ssh cmd
- PuTTy
- Cygwin
- WinSCP

Example on **PuTTy** Telechargeable here. Once it has been installed and launched, follow the steps below:

- In the Host Name (or IP address) field, enter the IP address of your Esia server.
- In the Port field, enter 22 if it is not already entered.
- Check SSH.
- Click Open.



The login and password to be entered are those entered for the user created when you installed your **Debian 12 bookworm**.

Via Mac or GNU/Linux

- Open a command line terminal
- Type the following command :

copy

```
ssh $USERNAME@$IP
```

$USERNAME corresponding to the user login and **$IP** the IP address of your VM.

Example:

```
elessar@bookworm ~ $ ssh esiauser@10.12.0.203

The authenticity of host '10.12.0.203 (10.12.0.203)' can't be established.
ECDSA key fingerprint is SHA256:vB+p7UwKmXbdrQDctldkEI5sJIFqz4TdbAK4j8jyqJ4.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '10.12.0.203' (ECDSA) to the list of known hosts.
esiauser@10.12.0.203's password:

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.

***** Welcome to Esia Lite !!! *****

With root permissions. You can configure your server with command "esia-
configure".

* Network with esia-configure -S net
* Users with esia-configure -S user
* Alerting mail with esia-configure -S mail

For example for a first setup :

* esia-configure -S user -A add -u lite -e jdoe@example.com -P
* esia-configure -S mail -u alert@example.com -P -r
smtp.mail.example.com:465
* esia-configure -S net -M static -i eth1 -a 10.12.0.201 -m 255.255.255.0 -g
10.12.0.254 -n 8.8.8.8
```

```
For more help, you can :

* run esia-configuration --help
* visit page http://wiki.esia-sa.com
* send mail to support@esia-sa.com
* call +32 (0) 42 87 75 80 or +33 (01) 86 95 80 41

esiauser@debian-bookwoorm:~$
```

Get root(s) rights

Depending on the configuration of your Debian system :

Using su :

```
esiauser@debian-buster:~$ su -
Password:
root@debian-trixie:/home/esiauser#
```

Using sudo :

```
esiauser@debian-buster:~$ sudo -i
Password:
root@debian-trixie:/home/esiauser#
```

Note that the password is different depending on the user:

- With su, the password is that of the 'root' user.
- With sudo, the password is that of the current user (esiauser in my example).

First configuration

The command **esia-configure** command on your **Esia** to perform the configuration operations required for your server to function correctly. This command allows you to :

- Create and manage future administrators (root group in the interface) of your esia.
- Configure your network interface.
- configure an SMTP server to send alerting emails.

Users managed by **esia-configure** are those who will be able to access the Esia web interface. To configure Debian users (SSH connection for example). Use the basic GNU/Linux commands:

- change the root password :
  `passwd`
- change the user password (user with esiauser login)
  `passwd esiauser`

This tutorial explains the main uses of**esia-configure**. For more advanced use, see the :

copy

```
esia-configure --help
```

Creating the first user IDs

The options are :

1. S user (Section) to specify that you wish to act on the user section
2. A add (Action add) to specify that you want to add a user
3. u $LOGIN (User) replace $LOGIN with the desired user.
4. e $EMAIL (Email) replace $EMAIL with the email address of the desired user.
5. P (Prompt password) to enter the user password securely. (The -p $PASS option, used in certain cases, will keep the password in the history of commands entered).

```
root@debian-bookwoorm:/# esia-configure -S user -A add -u jdoe -e
jdoe@example.com -P
Password:
Confirm password:
Do you want to add user jdoe,jdoe@example.com with root permissions
Do you wish to apply this ? (y,n) y
root@debian-bookwoorm:/#
```

First connection to your WEB interface

Now that everything is installed, you can connect to the Esia web interface and start integrating your nodes. If you don't know your IP, you can type the following command:

```
root@debian-bookwoorm:/# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group
default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
       valid_lft forever preferred_lft forever
2: ens18: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP
group default qlen 1000
    link/ether c2:72:72:cb:b1:7b brd ff:ff:ff:ff:ff:ff
    altname enp0s18
    inet 10.5.0.148/24 brd 10.5.0.255 scope global ens18
       valid_lft forever preferred_lft forever
    inet6 fe80::c072:72ff:fecb:b17b/64 scope link
       valid_lft forever preferred_lft forever
```

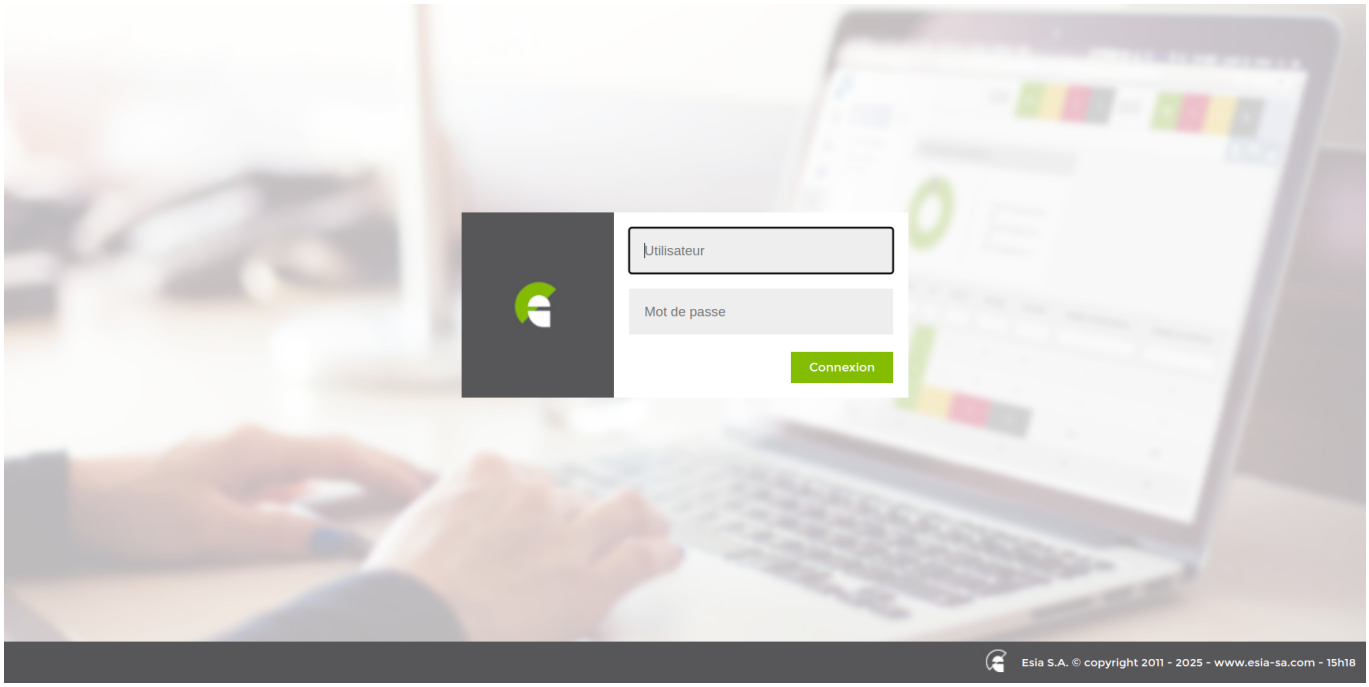
```
root@debian-bookwoorm:/#
```

If you want to memorise this command, think of an advert for a famous Swedish furniture brand or a type of beer 🤣

You can now go to the url

```
https://<your ip>
```

In my case, it's 10.5.0.148 (https://10.5.0.148). Accept the certificate and you're on your ESIA.



Enter your login and your password defined above and you are connected.

You can now configure the server to send emails or start deploying by clicking on this link Scan a network

Configuring the email alerting system

Avant de commencer, vous avez besoin d'un serveur mail SMTP capable de relayer les mails générés par votre serveur Esia. Ce serveur de mail doit bien sur être joignable par celui-ci. Pour accéder à ce serveur de mail, le serveur Esia devra connaître :

- l'adresse mail que le serveur Esia utilisera pour envoyer ces emails. (Exemple : no-reply@example.com ou alert@example.com)
- l'IP ou le nom de domaine de votre serveur de mail de relai.
- le port SMTP utilisé (25, 465, ...).
- un login d'authentification si nécessaire.
- le mot de passe correspondant au login si nécessaire.

La syntaxe de la commande est :

copy

```
esia-configure -S mail -f $EMAIL -r $HOST:$PORT -u $LOGIN -P
```

Tous les paramètres ne sont pas obligatoires. Ils correspondent à :

- -S mail (Section) afin de spécifier qu'on souhaite agir sur la section des mails
- -f $EMAIL (From) remplacez $EMAIL par l'adresse email attribuée au serveur (Exemple : no-reply@example.com)
- -r $HOST:PORT (Relayhost) remplacez $HOST par l'url de votre serveur mail (smtp.example.com) et $PORT par le port (25,465, ...)
- -u $LOGIN (User) remplacez $LOGIN par l'utilisateur souhaité.
- -P (Prompt password) pour saisir le mot de passe utilisateur de façon sécurisée. (L'option -p $PASS, utilise dans certains cas, gardera le mot de passe dans l'historique des commandes saisies)

Exemple :

```
root@debian-buster:/# esia-configure -S mail -f alert@example.com -r
smtp.example.com:465 -u alert -P
Password:
Confirm password:
This settings will be set :

From  changed => alert@example.com
Relayhost : => smtp.example.com:465
User  changed => alert
Pass changed

Do you wish to apply this ? (y,n) y
root@debian-buster:/#
```

Tester maintenant votre connexion SMTP Test de l'envoi des emails.

Server network configuration

Always use the command **esia-configure**.

The possible syntaxes are :

```
esia-configure -S net -M static -i $IFACE -a $IP -m $MASK -g $ROUTER -n
$DNS1,$DNS2

esia-configure -S net -M static -i $IFACE -a $IP -m $MASK

esia-configure -S net -M static -i $IFACE -g $ROUTER

esia-configure -S net -n $DNS1,$DNS2
```

The parameters are :

1. S net (Section) to specify that you want to act on the net section.
2. M static|dhcp (Mode) to specify whether the interface is to be configured as static or dhcp.
3. i $IFACE (Interface) network interface to configure (eth0, ...).
4. a $IP (Address) is the IP address assigned to the network interface.
5. m $MASK (Mask) is the subnet mask corresponding to the IP address (255.255.255.0, ...).
6. g $ROUTER (Gateway) is the gateway or router used to exit the network.
7. n $DNS1,$DNS2 (Nameservers) is the dns server(s) to be used. (List separated by « **,** » the first being given priority).

Warning: if you are using an SSH connection, changing the network configuration may cause the connection to be lost (possible crash of the current terminal). You must then reconnect to the new IP address.

Example :

```
root@debian-bookwoorm:/# esia-configure -S net -M static -i eth0 -a
192.168.1.10 -m 255.255.255.0 -g 192.168.1.1 -n 192.168.1.1,8.8.8.8
#Generate configuration is :
##For /etc/network/interfaces
iface lo inet loopback

auto eth1
allow-hotplug eth1
iface eth1 inet static
    address 10.12.0.203
    netmask 255.255.255.0
    broadcast 10.12.0.255

auto eth0
allow-hotplug eth0
iface eth0 inet static
    address 192.168.1.10
    netmask 255.255.255.0
    gateway 192.168.1.1


##For /etc/resolv.conf
domain esia.local
search esia.local
nameserver 192.168.1.1
nameserver 8.8.8.8

#If you apply, your ssh connection could be lost
#Do you wish to apply this ? (y,n) y
```

From:
https://wiki.esia-sa.com/ - **Esia Wiki**

Permanent link:
https://wiki.esia-sa.com/en/intro/install_lite

Last update: **2026/08/04 11:38**