

Open-Audit

Opmantek ■●■■■●

What's on your network?

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1. Introducción

1.1 Historia

Open-Audit fue desarrollado por Mark Unwin, quien comenzó a trabajar en el proyecto en 2006.

El objetivo original de Open-Audit era proporcionar una herramienta gratuita y fácil de usar para la gestión de inventario de TI. El proyecto rápidamente ganó popularidad y se convirtió rápidamente en una de las herramientas de gestión de inventario de TI de código abierto más populares del mercado.

A medida que crecía la demanda de Open-Audit, Mark Unwin se asoció con Opmantek, una empresa australiana de software de gestión de redes. Juntos continuaron desarrollando el proyecto, agregando nuevas características y mejorando la escalabilidad y seguridad del software.

En 2016, Opmantek lanzó una versión comercial de Open-Audit llamada "Open-Audit Professional". La versión Professional ofrece funciones adicionales, como el seguimiento de los cambios de configuración y la automatización de las tareas de gestión de inventario.

Hoy en día, Open-Audit es utilizado por empresas de todo el mundo, desde pequeñas hasta grandes corporaciones. Como software de código abierto, una comunidad mundial de desarrolladores continuará manteniendo y mejorando el proyecto para garantizar que siga siendo una herramienta conveniente y moderna para la gestión de activos de TI.

1.2 Que es?

Open-Audit es un software de gestión de inventario de TI de código abierto. Es una herramienta que permite a los administradores de red recopilar información detallada sobre los dispositivos de su red, incluidos servidores, estaciones de trabajo, enrutadores y dispositivos móviles.

Open-Audit utiliza una combinación de técnicas de exploración como SNMP, WMI y SSH para recopilar información sobre los dispositivos de su red. Esta información se almacena en una base de datos para que los administradores puedan generar informes detallados sobre los dispositivos de red. Esto incluye información de hardware y software, direcciones IP, puertos abiertos y otra información relevante.

Open-Audit es una herramienta de código abierto. Esto significa que el código fuente es abierto y gratuito para que cualquiera lo use, modifique y distribuya. Como tal, Open-Audit es muy popular en la comunidad de gestión de redes y sistemas y es utilizado por empresas de todos los tamaños en todo el mundo.

1.3 Para que sirve?

Open-Audit se utiliza principalmente para la gestión de inventario de TI. Permite a los administradores de red recopilar información detallada sobre los dispositivos en su red, como el sistema operativo, el hardware, los programas instalados, las direcciones IP y otra información relevante.

Esta información se utiliza para mantener un inventario preciso y actualizado de los dispositivos de red. Esto es esencial para la gestión de activos de TI. Los administradores pueden usar Open-Audit para identificar fácilmente los dispositivos que necesitan actualizaciones de software o hardware, realizar un seguimiento de las licencias de software y programar actualizaciones de hardware.

Además de la gestión de inventario de TI, Open-Audit también se utiliza para la resolución de problemas de red. Los administradores pueden utilizar Open-Audit para realizar un seguimiento de los cambios de configuración de la red, identificar problemas de seguridad y optimizar el rendimiento de la red.

Open-Audit también se puede integrar con otras herramientas de administración de red y seguridad, lo que la convierte en una herramienta conveniente y versátil para administradores de redes y sistemas. En resumen, Open-Audit es la herramienta de administración de activos de TI y monitoreo de redes que los administradores necesitan para mantener sus redes seguras, eficientes y actualizadas.

1.4 Ventajas y desventajas

1.4.1 Ventajas

- Gratuito, ya que es un software de código abierto.
- Fácil de usar, no hace falta tener una gran formación para usarla.
- Personalizable, se puede ajustar a las necesidades.
- Escalabilidad, puede manejar grandes redes, por lo que lo pueden utilizar empresas de gran tamaño.
- Información detallada, lo que permite tener una información muy precisa y actualizada.

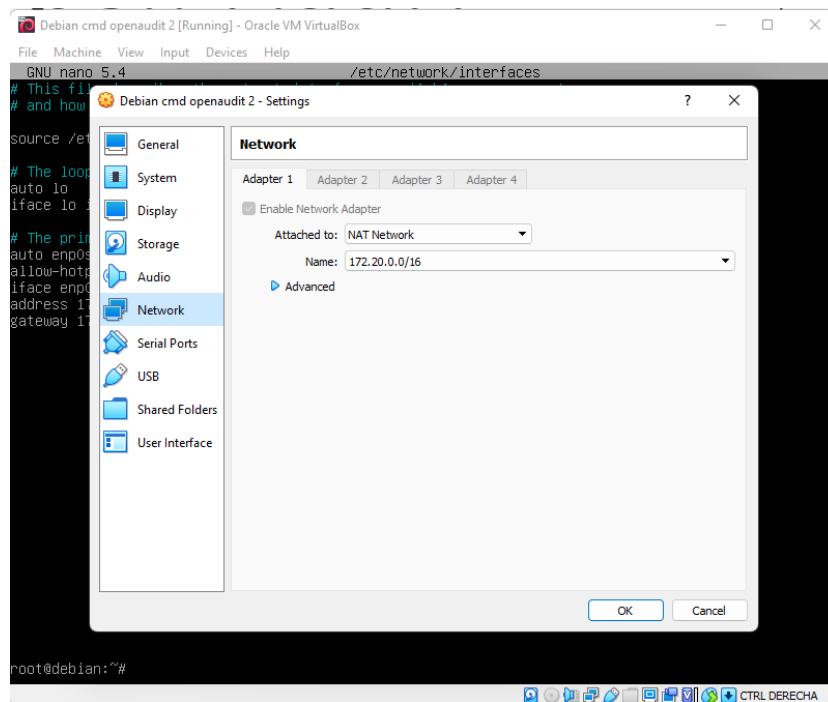
1.4.2 Desventajas

- Requiere configuración, no se puede utilizar rápidamente y puede ser un proceso algo dificultoso.
- Requiere tiempo y recursos para mantenerla actualizada y realizar el escaneo de forma regular.
- Puede ser invasiva, ya que guarda información sobre los dispositivos de la red, pero solo se utiliza para la gestión de inventarios de TI y supervisión de redes.
- Experiencia en TI, sin tener un buen conocimiento en redes puede llegar a no ser muy efectiva.

2. Como instalar

2.1 Preparar la red

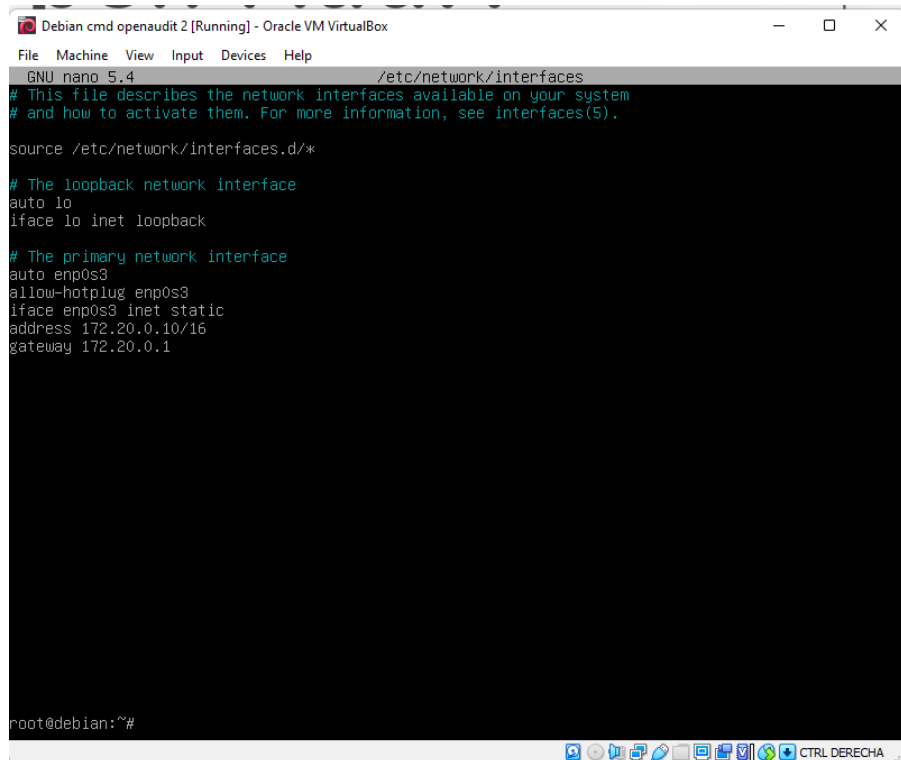
Primero hay que poner la máquina en red NAT con la 172.20.0.0/16.



2.2 Preparar la máquina

Para preparar la máquina primero hay que registrarse como root y se empieza a preparar con:

Nano /etc/network/interfaces



```
Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
GNU nano 5.4 /etc/network/interfaces
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

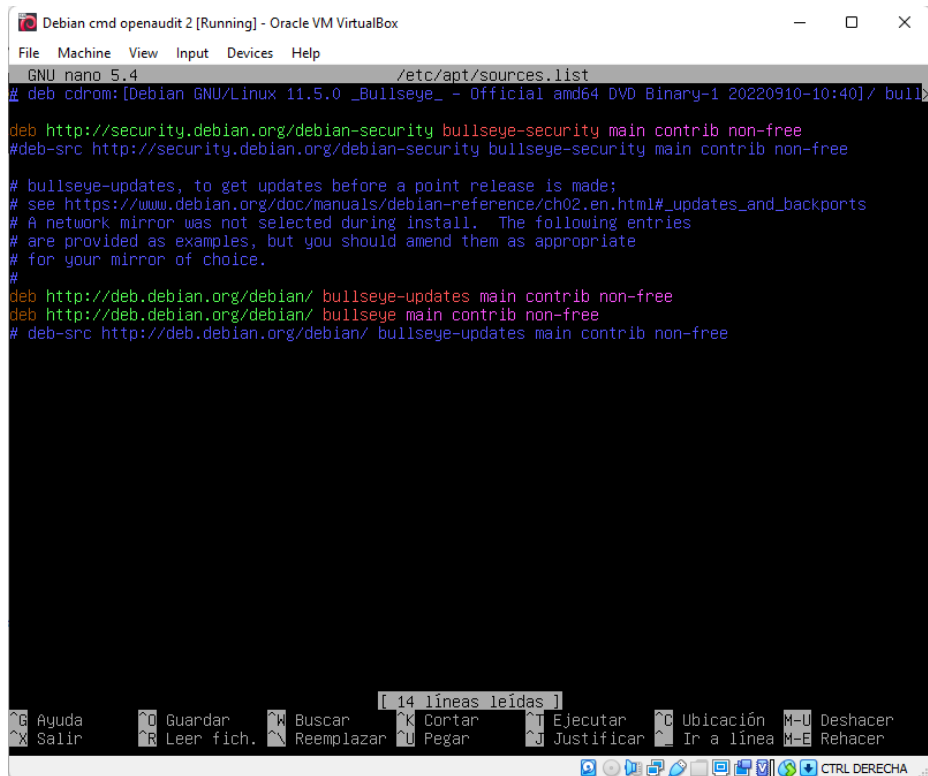
source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
auto enp0s3
allow-hotplug enp0s3
iface enp0s3 inet static
address 172.20.0.10/16
gateway 172.20.0.1

root@debian:~#
```

Nano /etc/apt/sources.list

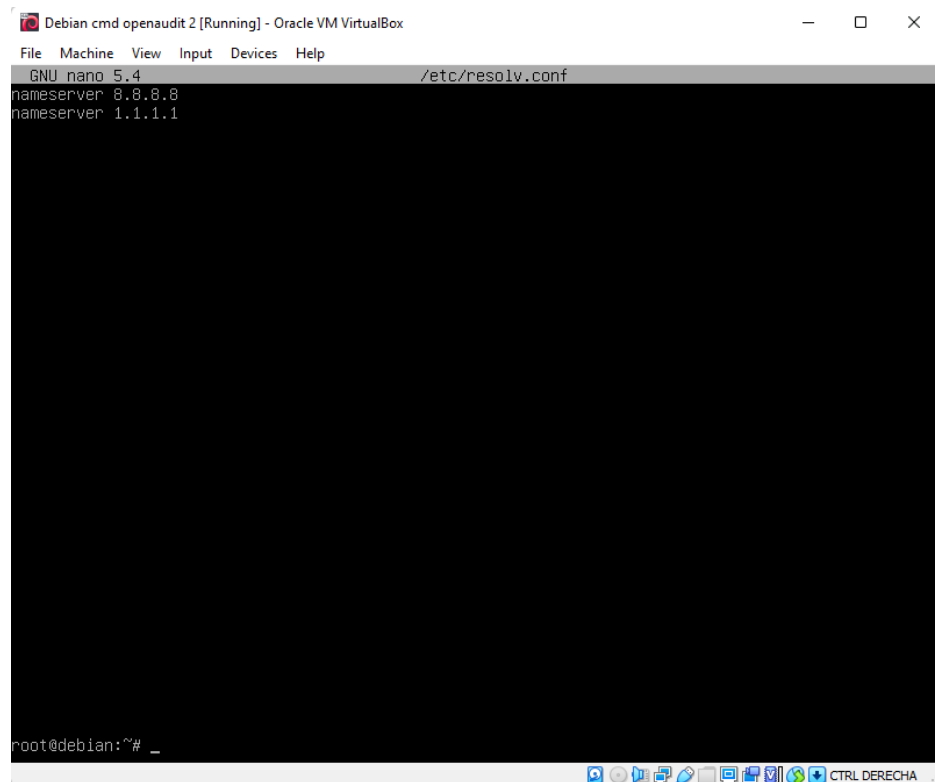


```
Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
GNU nano 5.4 /etc/apt/sources.list
# deb cdrom:[Debian GNU/Linux 11.5.0 _Bullseye_ - Official amd64 DVD Binary-1 20220910-10:40]/ bull
deb http://security.debian.org/debian-security bullseye-security main contrib non-free
#deb-src http://security.debian.org/debian-security bullseye-security main contrib non-free

# bullseye-updates, to get updates before a point release is made;
# see https://www.debian.org/doc/manuals/debian-reference/ch02.en.html#updates_and_backports
# A network mirror was not selected during install. The following entries
# are provided as examples, but you should amend them as appropriate
# for your mirror of choice.
#
deb http://deb.debian.org/debian/ bullseye-updates main contrib non-free
deb http://deb.debian.org/debian/ bullseye main contrib non-free
# deb-src http://deb.debian.org/debian/ bullseye-updates main contrib non-free

[ 14 líneas leídas ]
^G Ayuda ^O Guardar ^W Buscar ^K Cortar ^T Ejecutar ^C Ubicación M-U Deshacer
^X Salir ^R Leer fich. ^E Reemplazar ^U Pegar ^J Justificar ^I Ir a línea M-E Rehacer
```

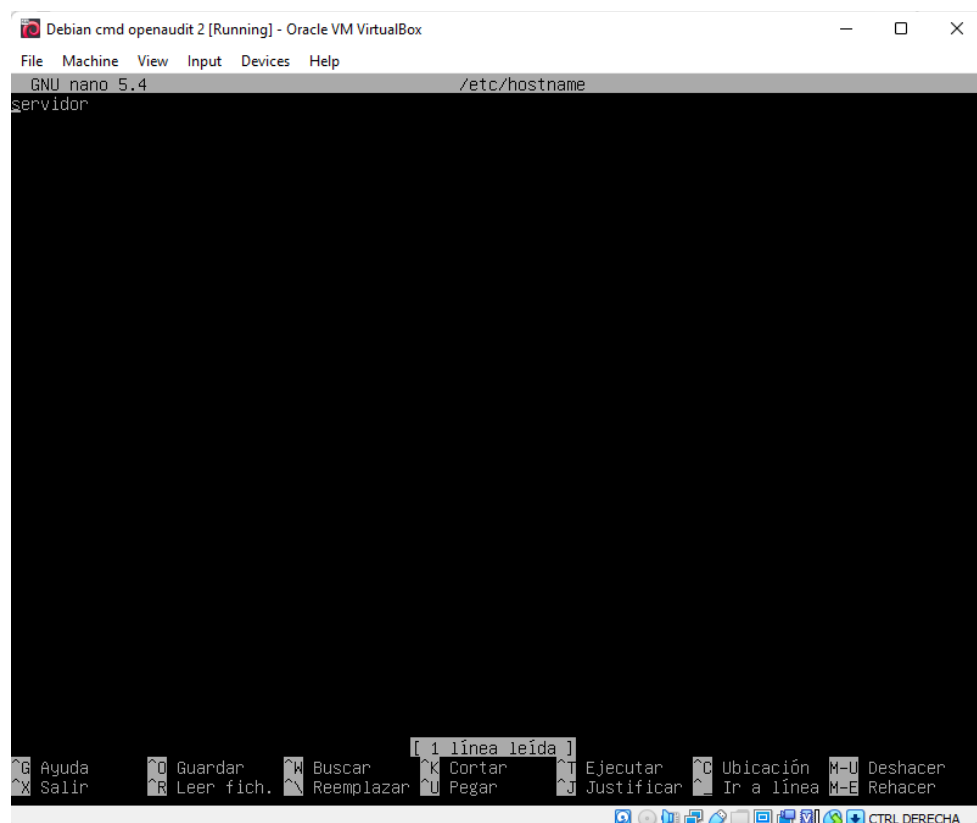

Nano /etc/resolv.conf



```
Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
GNU nano 5.4 /etc/resolv.conf
nameserver 8.8.8.8
nameserver 1.1.1.1

root@debian:~# _
```

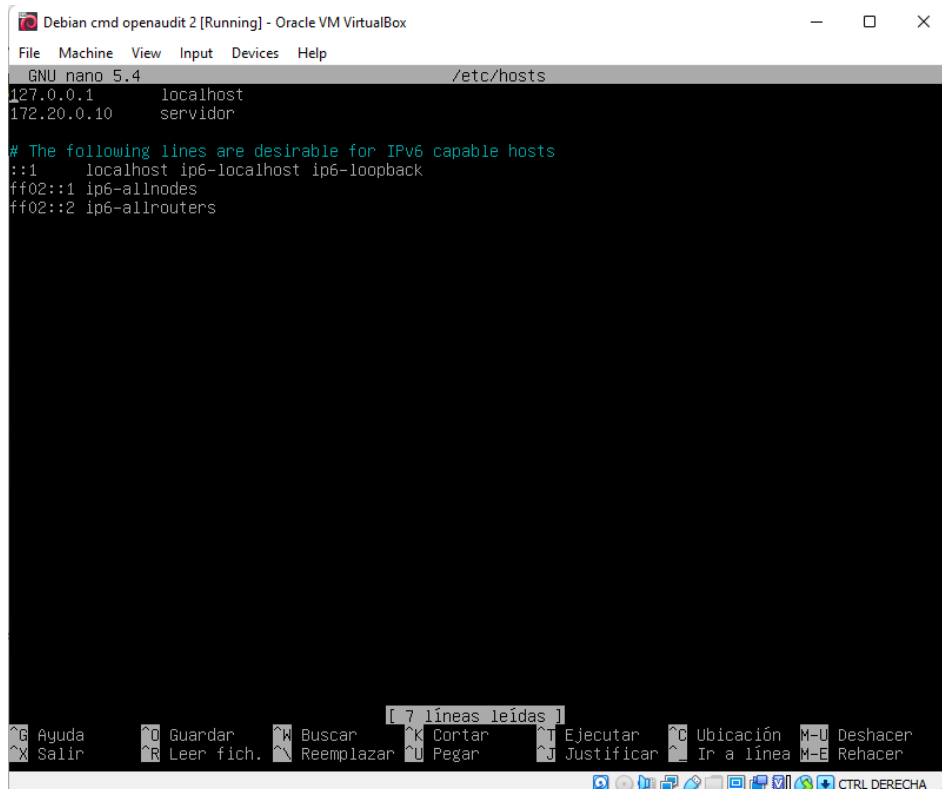
Nano /etc/hostname



```
Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
GNU nano 5.4 /etc/hostname
servidor

[ 1 línea leída ]
^G Ayuda  ^O Guardar  ^W Buscar  ^K Cortar  ^T Ejecutar  ^C Ubicación  M-U Deshacer
^X Salir  ^R Leer fich. ^N Reemplazar ^U Pegar  ^J Justificar  ^I Ir a línea  M-E Rehacer
```

Nano /etc/hosts



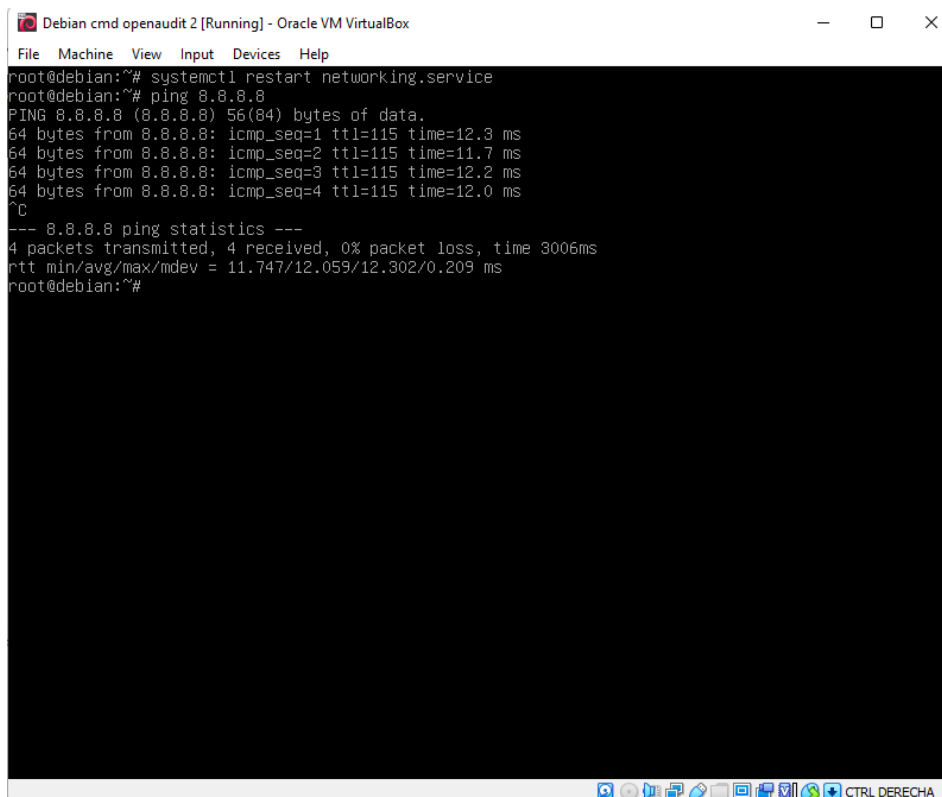
The screenshot shows a terminal window titled "Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox". Inside, the GNU nano 5.4 editor is open to the file /etc/hosts. The file contains the following text:

```
127.0.0.1    localhost
172.20.0.10  servidor

# The following lines are desirable for IPv6 capable hosts
::1        localhost ip6-localhost ip6-loopback
ff02::1    ip6-allnodes
ff02::2    ip6-allrouters
```

The bottom of the window shows the Nano editor's command palette with various shortcuts like ^G Ayuda, ^O Guardar, ^W Buscar, etc.

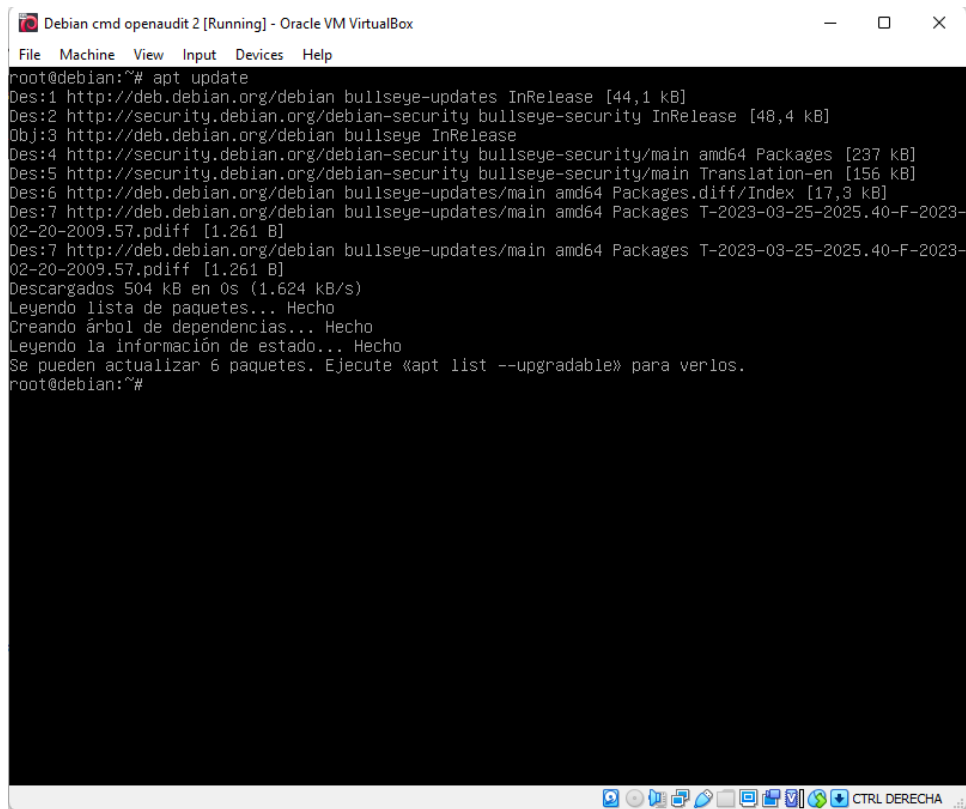
Ahora se reinicia la red y se hace un ping al 8.8.8.8 para ver si hay salida a Internet.



The screenshot shows a terminal window titled "Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox". The user is at the root prompt and has executed the following commands and received the following output:

```
root@debian:~# systemctl restart networking.service
root@debian:~# ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data:
64 bytes from 8.8.8.8: icmp_seq=1 ttl=115 time=12.3 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=115 time=11.7 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=115 time=12.2 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=115 time=12.0 ms
^C
--- 8.8.8.8 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3006ms
rtt min/avg/max/mdev = 11.747/12.059/12.302/0.209 ms
root@debian:~#
```

Si el ping funcionó se hace un apt update.

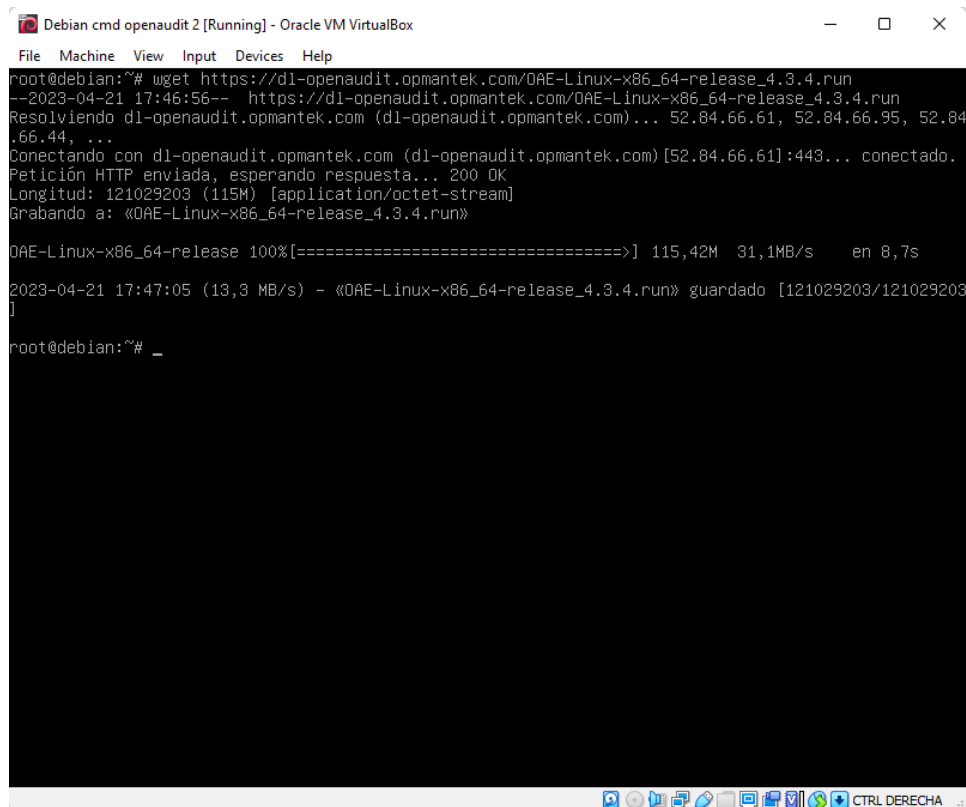


```
Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@debian:~# apt update
Des:1 http://deb.debian.org/debian bullseye-updates InRelease [44,1 kB]
Des:2 http://security.debian.org/debian-security bullseye-security InRelease [48,4 kB]
Obj:3 http://deb.debian.org/debian bullseye InRelease
Des:4 http://security.debian.org/debian-security bullseye-security/main amd64 Packages [237 kB]
Des:5 http://security.debian.org/debian-security bullseye-security/main Translation-en [156 kB]
Des:6 http://deb.debian.org/debian bullseye-updates/main amd64 Packages.diff/Index [17,3 kB]
Des:7 http://deb.debian.org/debian bullseye-updates/main amd64 Packages T-2023-03-25-2025.40-F-2023-02-20-2009.57.pdiff [1,261 B]
Des:7 http://deb.debian.org/debian bullseye-updates/main amd64 Packages T-2023-03-25-2025.40-F-2023-02-20-2009.57.pdiff [1,261 B]
Descargados 504 kB en 0s (1.624 kB/s)
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias... Hecho
Leyendo la información de estado... Hecho
Se pueden actualizar 6 paquetes. Ejecute «apt list --upgradable» para verlos.
root@debian:~#
```

2.3 Descargar la aplicación

Para empezar a descargarlo primero hay que descargar el archivo con el comando:

wget https://dl-openaudit.opmantek.com/OAE-Linux-x86_64-release_4.3.4.run



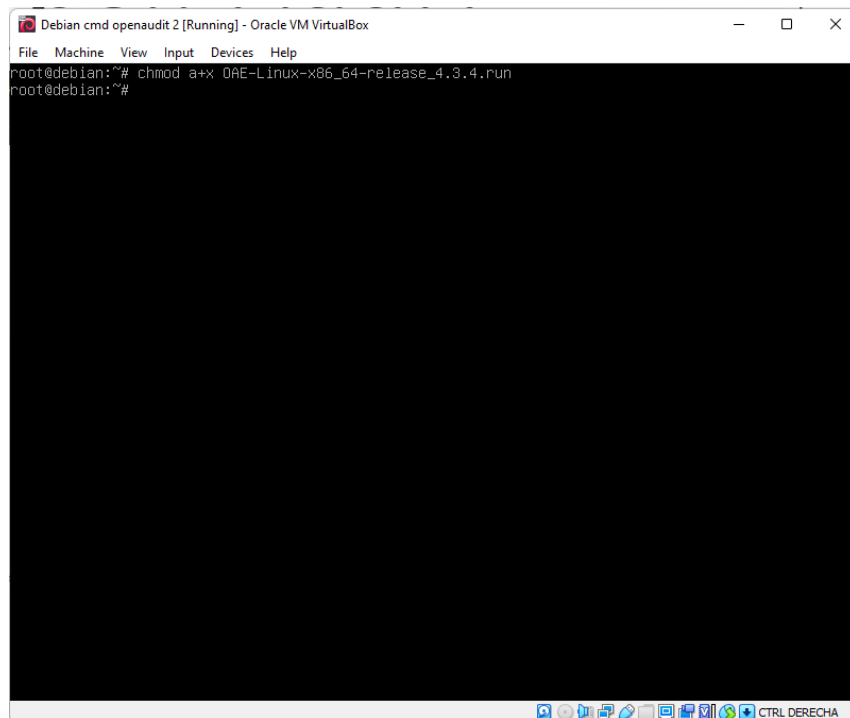
```
Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@debian:~# wget https://dl-openaudit.opmantek.com/OAE-Linux-x86_64-release_4.3.4.run
--2023-04-21 17:46:56-- https://dl-openaudit.opmantek.com/OAE-Linux-x86_64-release_4.3.4.run
Resolviendo dl-openaudit.opmantek.com (dl-openaudit.opmantek.com)... 52.84.66.61, 52.84.66.95, 52.84.66.44, ...
Conectando con dl-openaudit.opmantek.com (dl-openaudit.opmantek.com) [52.84.66.61]:443... conectado.
Petición HTTP enviada, esperando respuesta... 200 OK
Longitud: 121029203 (115M) [application/octet-stream]
Grabando a: «OAE-Linux-x86_64-release_4.3.4.run»

OAE-Linux-x86_64-release 100%[=====] 115,42M 31,1MB/s en 8,7s

2023-04-21 17:47:05 (13,3 MB/s) - «OAE-Linux-x86_64-release_4.3.4.run» guardado [121029203/121029203]

root@debian:~# _
```

Ahora se le da permisos con: `chmod a+x OAE-Linux-x86_64-release_4.3.4.run`

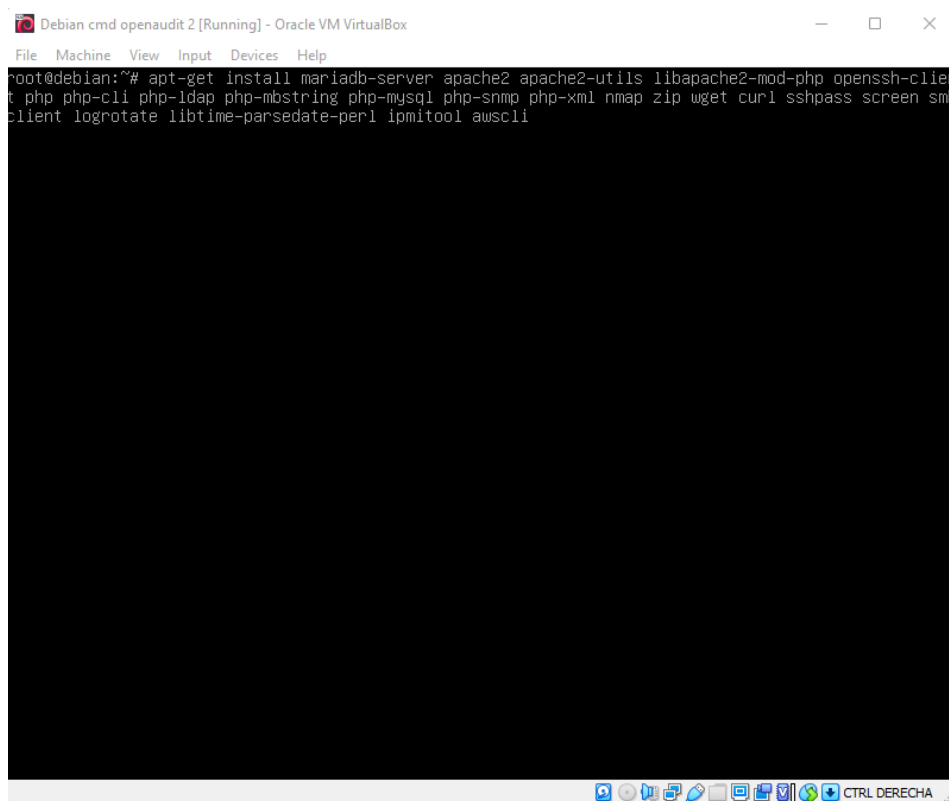


```
Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@debian:~# chmod a+x OAE-Linux-x86_64-release_4.3.4.run
root@debian:~#
```

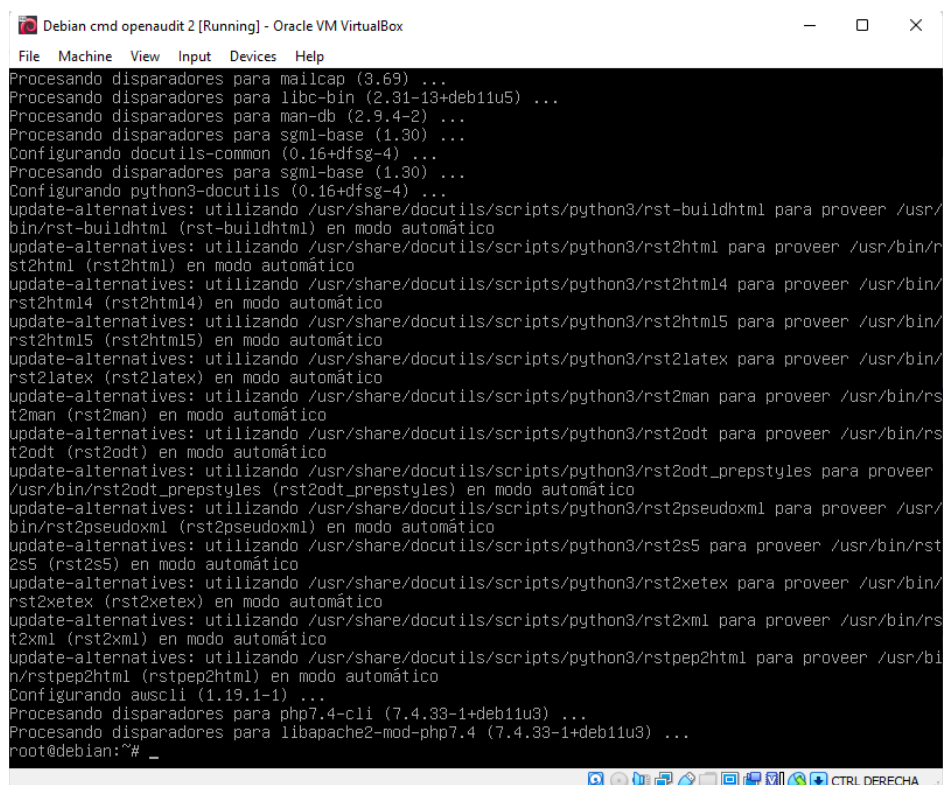
2.4 Instalar lo necesario para que funcione

Ahora hace falta instalar ciertas dependencias para que funcione, con este comando:

“apt-get install mariadb-server apache2 apache2-utils libapache2-mod-php openssl-client php php-cli php-ldap php-mbstring php-mysql php-snmp php-xml nmap zip wget curl sshpass screen smbclient logrotate libtime-parsedate-perl ipmitool awscli”



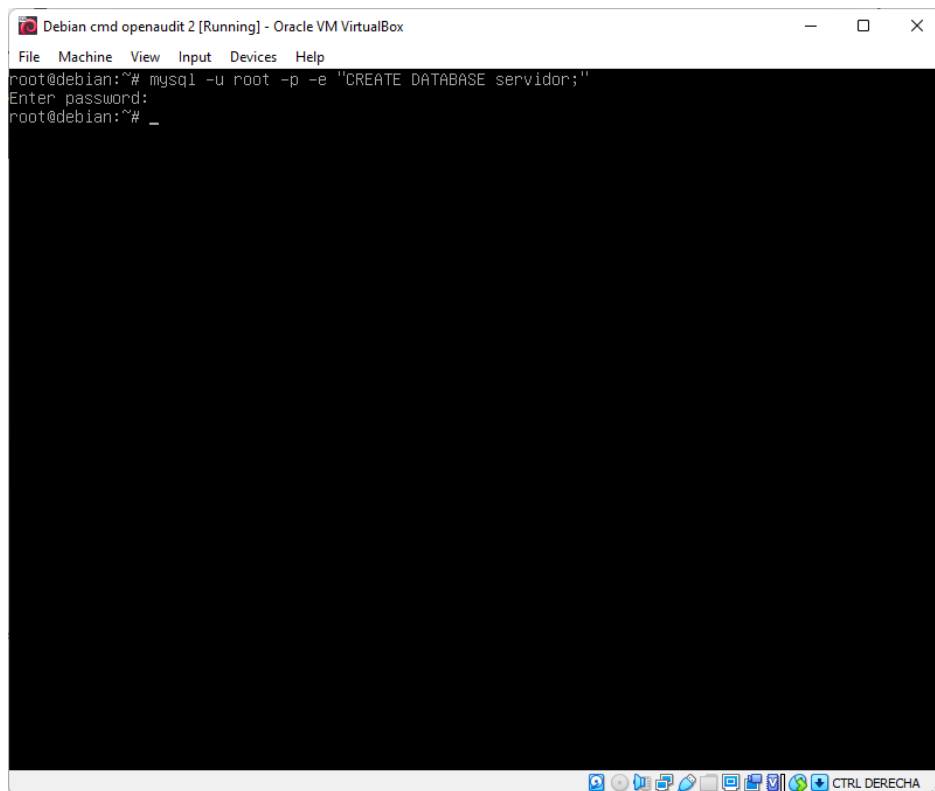
```
Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@debian:~# apt-get install mariadb-server apache2 apache2-utils libapache2-mod-php openssl-client php php-cli php-ldap php-mbstring php-mysql php-snmp php-xml nmap zip wget curl sshpass screen smbclient logrotate libtime-parsedate-perl ipmitool awscli
```



```
Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Procesando disparadores para mailcap (3.69) ...
Procesando disparadores para libc-bin (2.31-13+deb11u5) ...
Procesando disparadores para man-db (2.9.4-2) ...
Procesando disparadores para sgml-base (1.30) ...
Configurando docutils-common (0.16+dfsg-4) ...
Procesando disparadores para sgml-base (1.30) ...
Configurando python3-docutils (0.16+dfsg-4) ...
update-alternatives: utilizando /usr/share/docutils/scripts/python3/rst-buildhtml para proveer /usr/bin/rst-buildhtml (rst-buildhtml) en modo automático
update-alternatives: utilizando /usr/share/docutils/scripts/python3/rst2html para proveer /usr/bin/rst2html (rst2html) en modo automático
update-alternatives: utilizando /usr/share/docutils/scripts/python3/rst2html4 para proveer /usr/bin/rst2html4 (rst2html4) en modo automático
update-alternatives: utilizando /usr/share/docutils/scripts/python3/rst2html5 para proveer /usr/bin/rst2html5 (rst2html5) en modo automático
update-alternatives: utilizando /usr/share/docutils/scripts/python3/rst2latex para proveer /usr/bin/rst2latex (rst2latex) en modo automático
update-alternatives: utilizando /usr/share/docutils/scripts/python3/rst2man para proveer /usr/bin/rst2man (rst2man) en modo automático
update-alternatives: utilizando /usr/share/docutils/scripts/python3/rst2odt para proveer /usr/bin/rst2odt (rst2odt) en modo automático
update-alternatives: utilizando /usr/share/docutils/scripts/python3/rst2odt_prepstyles para proveer /usr/bin/rst2odt_prepstyles (rst2odt_prepstyles) en modo automático
update-alternatives: utilizando /usr/share/docutils/scripts/python3/rst2pseudoxml para proveer /usr/bin/rst2pseudoxml (rst2pseudoxml) en modo automático
update-alternatives: utilizando /usr/share/docutils/scripts/python3/rst2s5 para proveer /usr/bin/rst2s5 (rst2s5) en modo automático
update-alternatives: utilizando /usr/share/docutils/scripts/python3/rst2xetex para proveer /usr/bin/rst2xetex (rst2xetex) en modo automático
update-alternatives: utilizando /usr/share/docutils/scripts/python3/rst2xml para proveer /usr/bin/rst2xml (rst2xml) en modo automático
update-alternatives: utilizando /usr/share/docutils/scripts/python3/rstpep2html para proveer /usr/bin/rstpep2html (rstpep2html) en modo automático
Configurando awscli (1.19.1-1) ...
Procesando disparadores para php7.4-cli (7.4.33-1+deb11u3) ...
Procesando disparadores para libapache2-mod-php7.4 (7.4.33-1+deb11u3) ...
root@debian:~# _
```

Una vez instalado todo lo necesario se crea la base de datos con este comando:

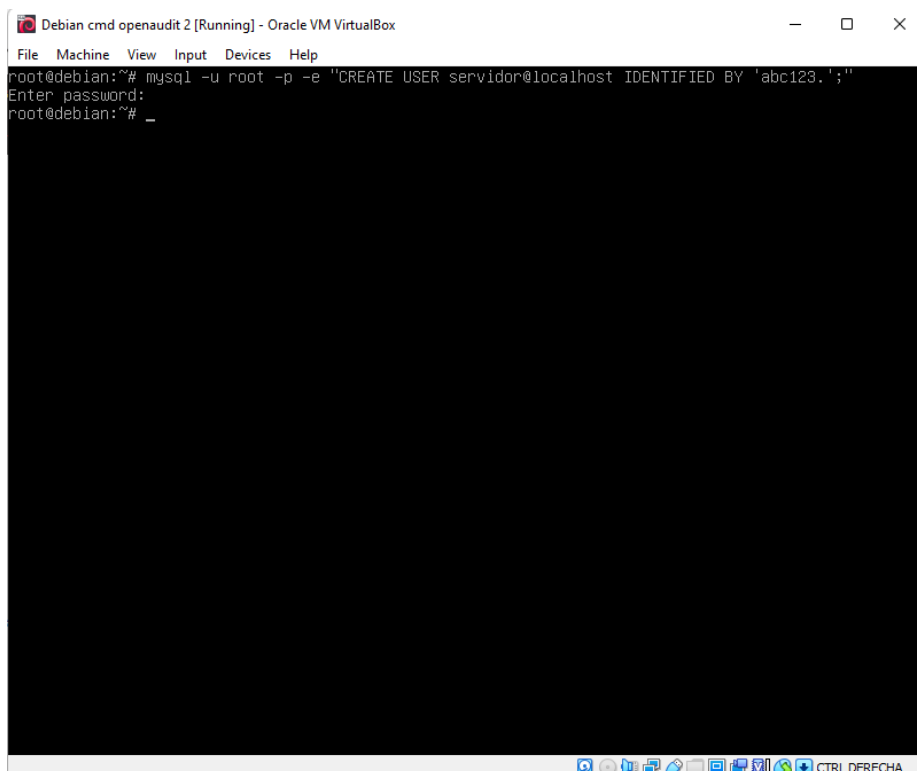
```
mysql -u root -p -e "CREATE DATABASE openaudit;"
```



The screenshot shows a terminal window titled "Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox". The terminal has a menu bar with "File", "Machine", "View", "Input", "Devices", and "Help". The command prompt is "root@debian:~#". The user enters the command "mysql -u root -p -e 'CREATE DATABASE servidor;'", followed by "Enter password:" and then a blank line. The prompt returns to "root@debian:~#". The terminal background is black, and the text is white. At the bottom, there is a taskbar with various icons and the text "CTRL DERECHA".

Ahora se crea el usuario:

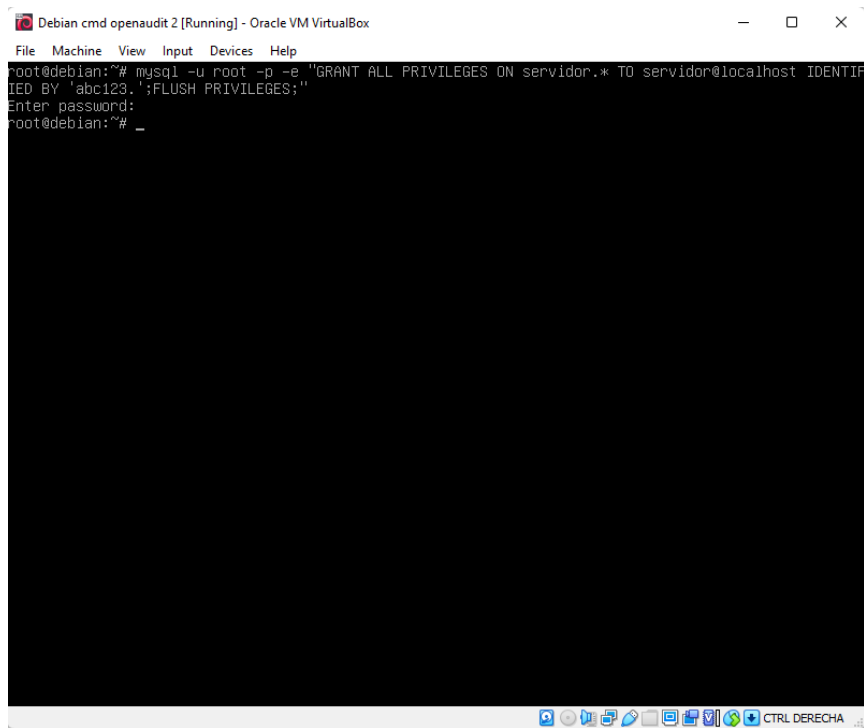
```
mysql -u root -p -e "CREATE USER openaudit@localhost IDENTIFIED BY 'openauditpassword';"
```



The screenshot shows a terminal window titled "Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox". The terminal has a menu bar with "File", "Machine", "View", "Input", "Devices", and "Help". The command prompt is "root@debian:~#". The user enters the command "mysql -u root -p -e 'CREATE USER servidor@localhost IDENTIFIED BY 'abc123.';'", followed by "Enter password:" and then a blank line. The prompt returns to "root@debian:~#". The terminal background is black, and the text is white. At the bottom, there is a taskbar with various icons and the text "CTRL DERECHA".

Ahora se le da acceso a la base de datos:

```
mysql -u root -p -e "GRANT ALL PRIVILEGES ON openaudit.* TO openaudit@localhost IDENTIFIED BY 'openauditpassword'; FLUSH PRIVILEGES;"
```



The screenshot shows a terminal window titled "Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox". The terminal content is as follows:

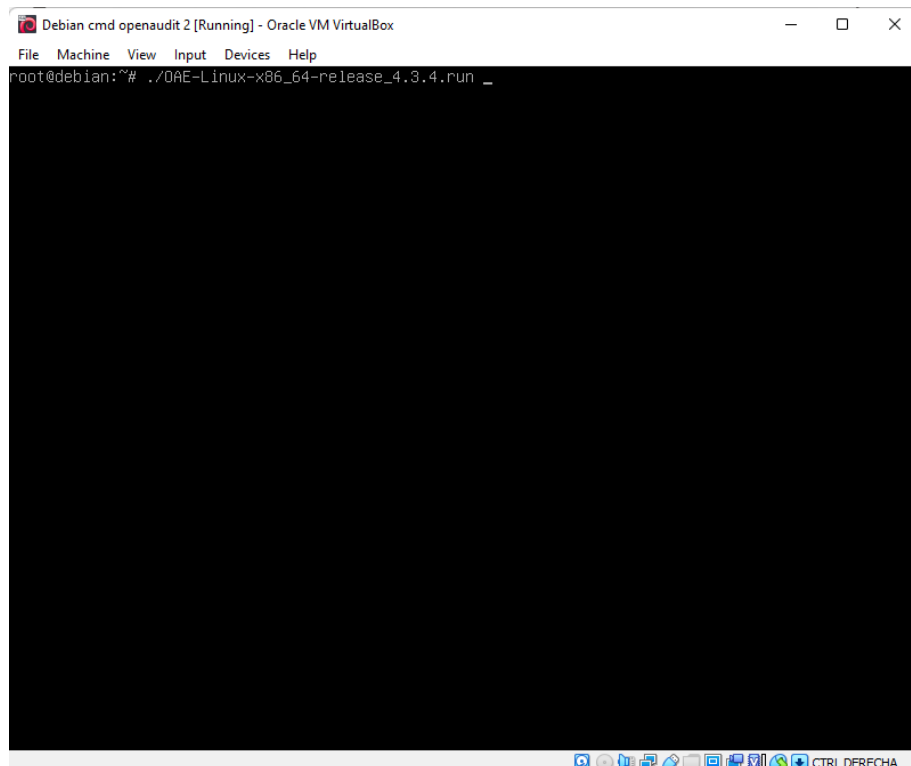
```
File Machine View Input Devices Help
root@debian:~# mysql -u root -p -e "GRANT ALL PRIVILEGES ON servidor.* TO servidor@localhost IDENTIFIED BY 'abc123.';FLUSH PRIVILEGES;"
Enter password:
root@debian:~# _
```

The terminal window has a menu bar with "File", "Machine", "View", "Input", "Devices", and "Help". The bottom status bar shows icons for various applications and the text "CTRL DERECHA".

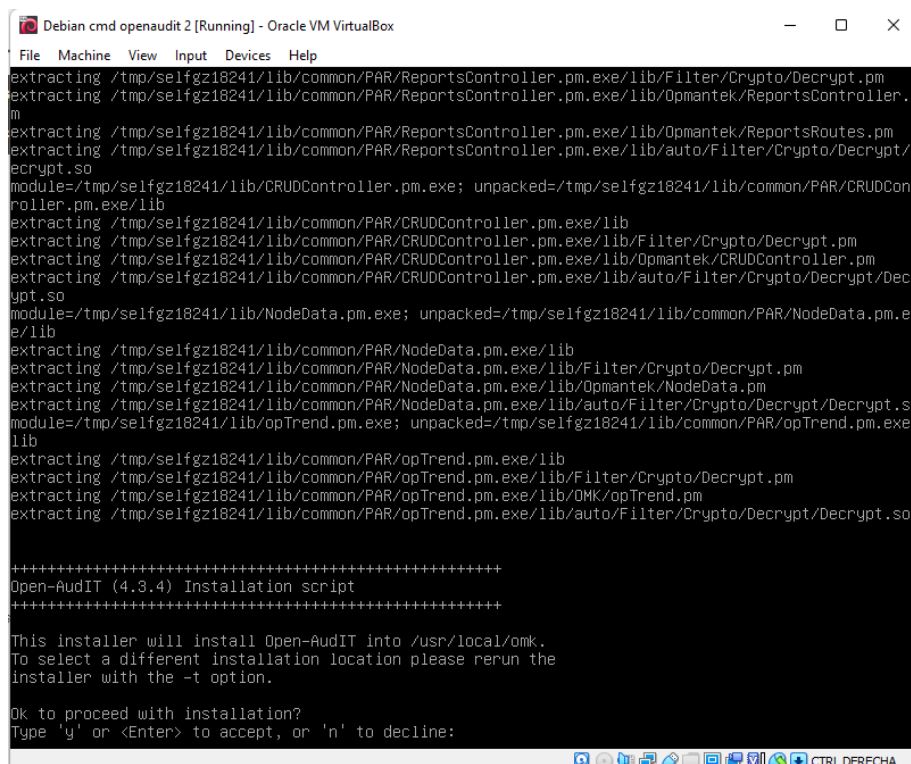
2.5 Ejecutar el programa

Una vez todo instalado hay que ejecutar el programa con:

`./OAE-Linux-x86_64-release_4.3.4.run`



Ahora para ejecutar van a aparecer una serie de preguntas, la primera es si quieres proceder con la instalación:



La siguiente es si quieres instalarlo con APT

```
Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Package libapache2-mod-php is installed.
Package openssh-client is installed.
Package php is installed.
Package php-cli is installed.
Package php-curl is NOT installed.
Package php-ldap is installed.
Package php-mbstring is installed.
Package php-mysql is installed.
Package php-snmp is installed.
Package php-xml is installed.
Package nmap is installed.
Package zip is installed.
Package wget is installed.
Package curl is installed.
Package sshpass is installed.
Package screen is installed.
Package smbclient is installed.
Package logrotate is installed.
Package ipmitool is installed.
Package rrdtool is NOT installed.
Package libpng12-0 is NOT installed.
Package awscli is installed.
Package snmp is installed.
Package libcrypt-cbc-perl is NOT installed.

+++++
Some required packages are missing!
+++++

Open-Audit requires the following packages which are not installed:

php-curl rrdtool libpng12-0 libcrypt-cbc-perl

The installer can use APT to download and install these packages.
Do you want to install these packages with APT now?
Type 'y' or <Enter> to accept, or 'n' to decline: _
```

Si quieres instalar los paquetes necesarios para instalar algunas dependencias

```
Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
-----COMMAND RETURNED EXIT CODE 100-----
apt-get -yq -o Dpkg::Options::=force-confdef -o Dpkg::Options::=force-confold install libpng12-0
/jessie 2>81 Leyendo lista de paquetes...
Creando árbol de dependencias...
Leyendo la información de estado...
E: No se encontró la distribución «jessie» para «libpng12-0»

Using apt-get to install libcrypt-cbc-perl
Looking for an existing Open-Audit Community installation...
No existing Open-Audit installation found.
Moving old templates (if required) from templates/oae

+++++
Finalise required dependencies...
+++++

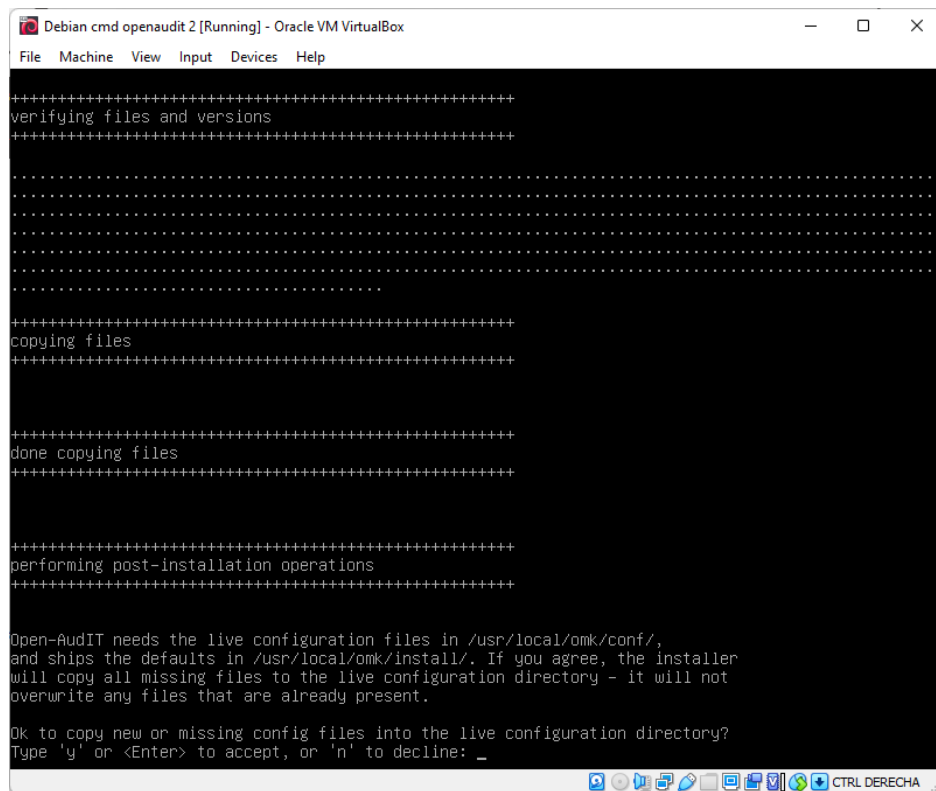
+++++
Checking if Web is accessible...
+++++

Web access is OK.

+++++
Installation of libpng12-0 from source...
+++++

Installation of libpng12-0 from source with dependencies 'make', 'gcc' and 'zlib1g-dev', as needed,
is required.
Do you want to install these packages now?
Type 'y' or <Enter> to accept, or 'n' to decline: _
```

Si quieres copiar nuevos archivos de configuración o perdidos en el directorio de configuración.



```
Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

+++++
verifying files and versions
+++++

.....

+++++
copying files
+++++

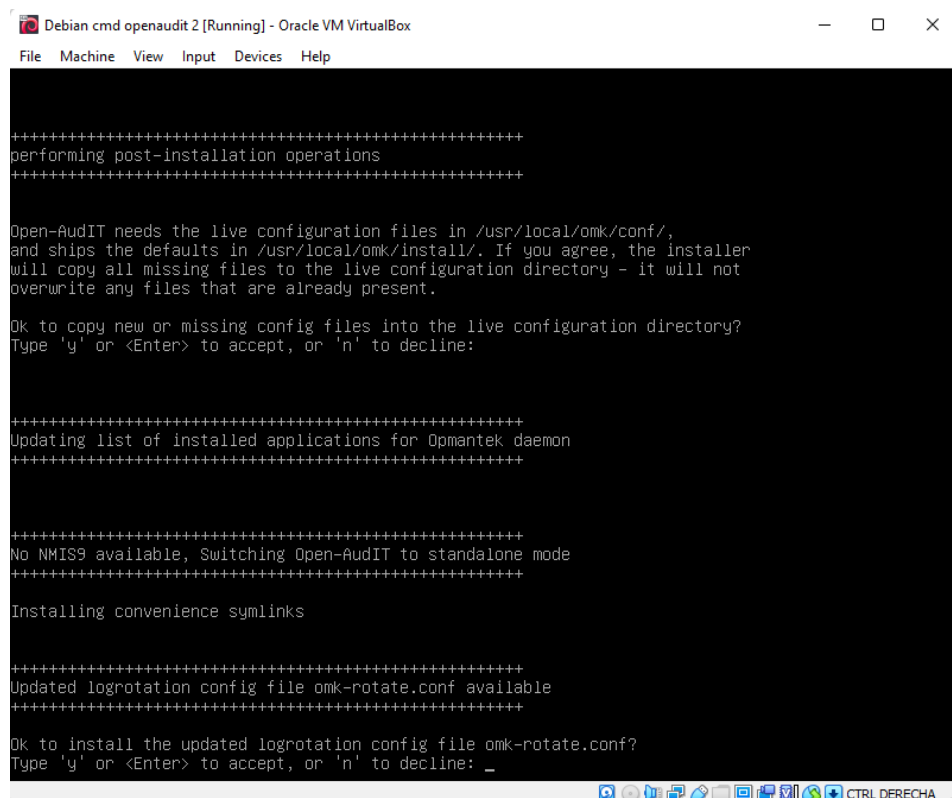
done copying files
+++++

performing post-installation operations
+++++

Open-Audit needs the live configuration files in /usr/local/omk/conf/,
and ships the defaults in /usr/local/omk/install/. If you agree, the installer
will copy all missing files to the live configuration directory - it will not
overwrite any files that are already present.

Ok to copy new or missing config files into the live configuration directory?
Type 'y' or <Enter> to accept, or 'n' to decline: _
```

Instalar el archivo de configuración de logrotation actualizado omk-rotate.conf



```
Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

+++++
performing post-installation operations
+++++

Open-Audit needs the live configuration files in /usr/local/omk/conf/,
and ships the defaults in /usr/local/omk/install/. If you agree, the installer
will copy all missing files to the live configuration directory - it will not
overwrite any files that are already present.

Ok to copy new or missing config files into the live configuration directory?
Type 'y' or <Enter> to accept, or 'n' to decline:

+++++
Updating list of installed applications for Opmantek daemon
+++++

+++++
No NMIS9 available, Switching Open-Audit to standalone mode
+++++

Installing convenience symlinks

+++++
Updated logrotation config file omk-rotate.conf available
+++++

Ok to install the updated logrotation config file omk-rotate.conf?
Type 'y' or <Enter> to accept, or 'n' to decline: _
```

Se quiere reparar ciertos valores en /usr/local/omk/conf/opCommon.json

```
Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
+++++
performing post-installation operations
+++++

Open-Audit needs the live configuration files in /usr/local/omk/conf/,
and ships the defaults in /usr/local/omk/install/. If you agree, the installer
will copy all missing files to the live configuration directory - it will not
overwrite any files that are already present.

Ok to copy new or missing config files into the live configuration directory?
Type 'y' or <Enter> to accept, or 'n' to decline:

+++++
Updating list of installed applications for Opmantek daemon
+++++

+++++
No NMIS available, Switching Open-Audit to standalone mode
+++++

Installing convenience symlinks

+++++
Updated logrotation config file omk-rotate.conf available
+++++

Ok to install the updated logrotation config file omk-rotate.conf?
Type 'y' or <Enter> to accept, or 'n' to decline:
Do you want repair incompatible unquoted 'true' or 'false' values in '/usr/local/omk/conf/opCommon.json'?
Type 'y' or <Enter> to accept, or 'n' to decline: _
```

Importar alguna nueva configuración en ajustes

```
Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Ok to install the updated logrotation config file omk-rotate.conf?
Type 'y' or <Enter> to accept, or 'n' to decline:
Do you want repair incompatible unquoted 'true' or 'false' values in '/usr/local/omk/conf/opCommon.json'?
Type 'y' or <Enter> to accept, or 'n' to decline:
Repairing incompatible unquoted 'true' or 'false' values in '/usr/local/omk/conf/opCommon.json'.
Upgrading Standalone NMIS Access file
Upgrading NMIS Users file
Merging Opmantek Modules definitions
Patching Opmantek Modules definitions
Merging Opmantek License Files

+++++
Adjusting users, ownerships and permissions
+++++

Priming remaining directories

+++++
NMIS Integration Settings
+++++

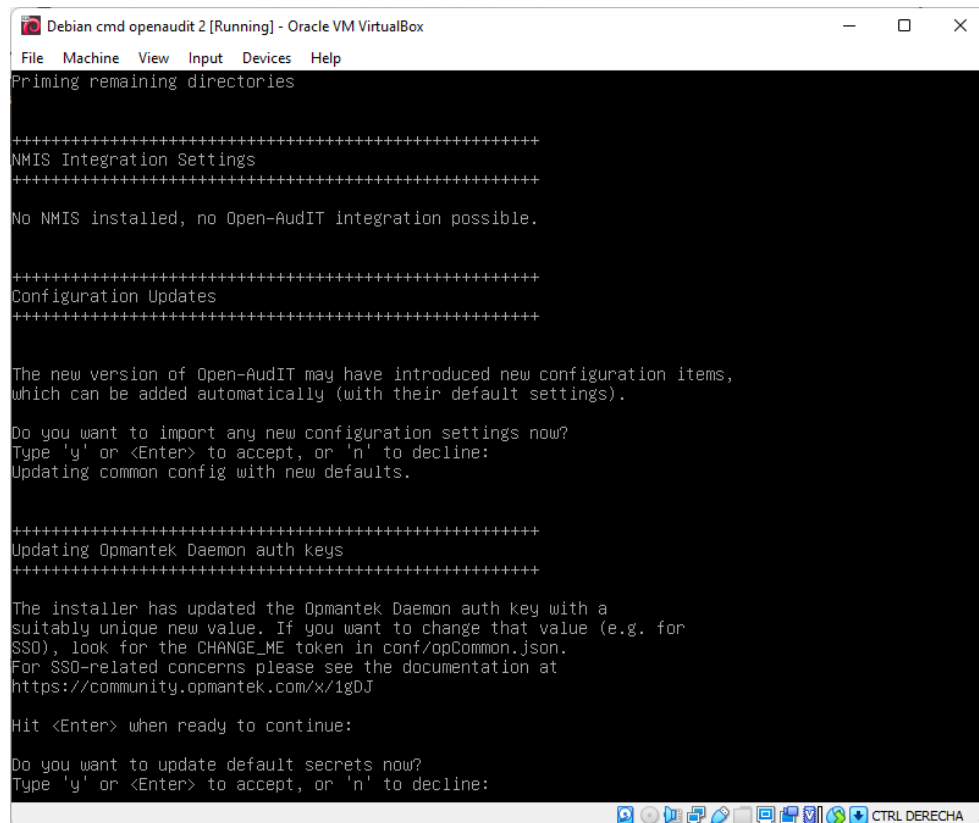
No NMIS installed, no Open-Audit integration possible.

+++++
Configuration Updates
+++++

The new version of Open-Audit may have introduced new configuration items,
which can be added automatically (with their default settings).

Do you want to import any new configuration settings now?
Type 'y' or <Enter> to accept, or 'n' to decline: _
```

Actualizar secretos predeterminados



```
Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Priming remaining directories

+++++
NMIS Integration Settings
+++++

No NMIS installed, no Open-Audit integration possible.

+++++
Configuration Updates
+++++

The new version of Open-Audit may have introduced new configuration items,
which can be added automatically (with their default settings).

Do you want to import any new configuration settings now?
Type 'y' or <Enter> to accept, or 'n' to decline:
Updating common config with new defaults.

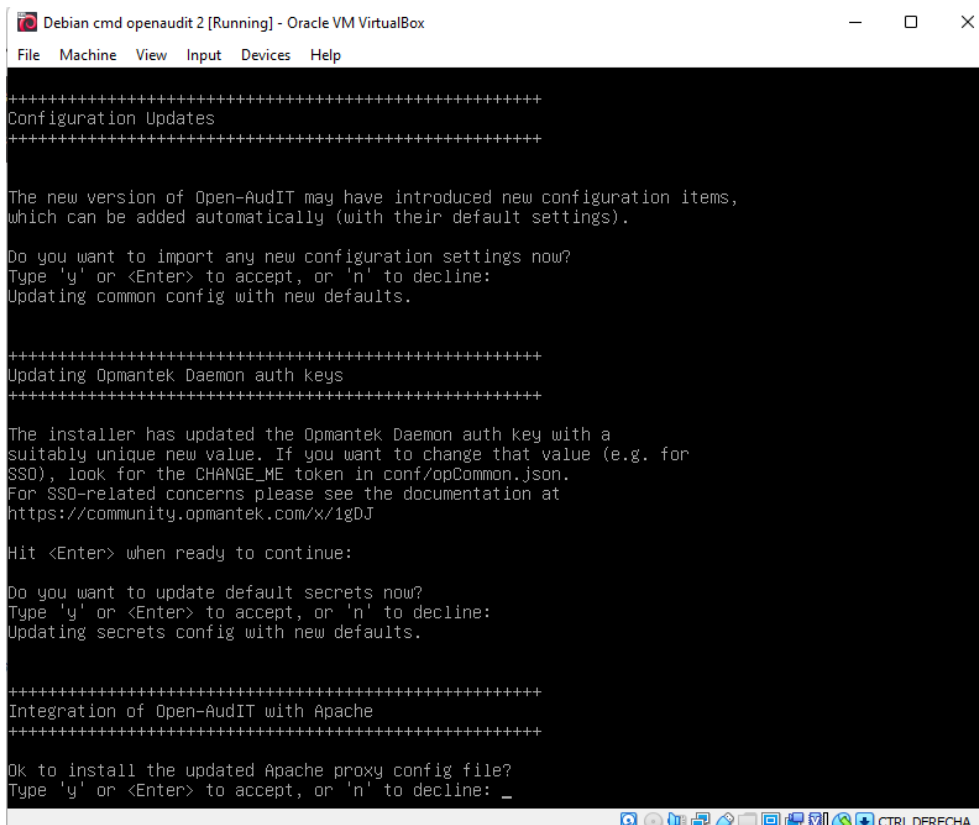
+++++
Updating Opmantek Daemon auth keys
+++++

The installer has updated the Opmantek Daemon auth key with a
suitably unique new value. If you want to change that value (e.g. for
SSO), look for the CHANGE_ME token in conf/opCommon.json.
For SSO-related concerns please see the documentation at
https://community.opmantek.com/x/1gDJ

Hit <Enter> when ready to continue:

Do you want to update default secrets now?
Type 'y' or <Enter> to accept, or 'n' to decline:
```

Instalar la actualización de archivo de configuración de proxy de Apache



```
Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

+++++
Configuration Updates
+++++

The new version of Open-Audit may have introduced new configuration items,
which can be added automatically (with their default settings).

Do you want to import any new configuration settings now?
Type 'y' or <Enter> to accept, or 'n' to decline:
Updating common config with new defaults.

+++++
Updating Opmantek Daemon auth keys
+++++

The installer has updated the Opmantek Daemon auth key with a
suitably unique new value. If you want to change that value (e.g. for
SSO), look for the CHANGE_ME token in conf/opCommon.json.
For SSO-related concerns please see the documentation at
https://community.opmantek.com/x/1gDJ

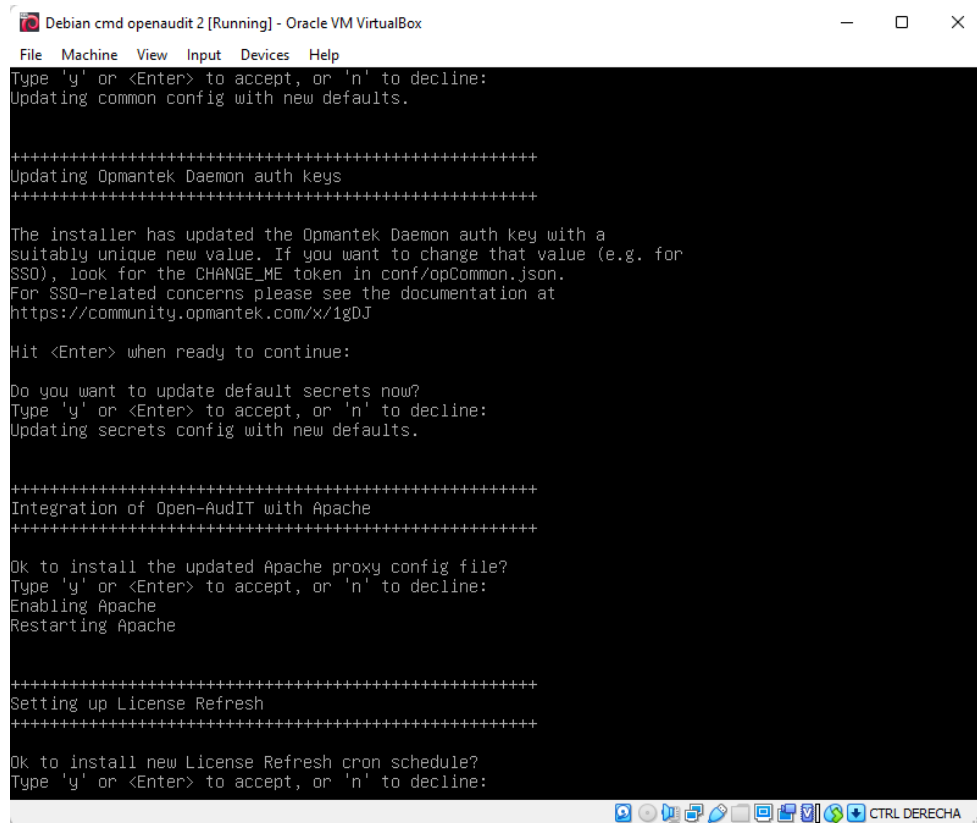
Hit <Enter> when ready to continue:

Do you want to update default secrets now?
Type 'y' or <Enter> to accept, or 'n' to decline:
Updating secrets config with new defaults.

+++++
Integration of Open-Audit with Apache
+++++

OK to install the updated Apache proxy config file?
Type 'y' or <Enter> to accept, or 'n' to decline: _
```

Instalar nueva licencia del cronograma



```
Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Type 'y' or <Enter> to accept, or 'n' to decline:
Updating common config with new defaults.

+++++
Updating Opmantek Daemon auth keys
+++++

The installer has updated the Opmantek Daemon auth key with a
suitably unique new value. If you want to change that value (e.g. for
SSO), look for the CHANGE_ME token in conf/opCommon.json.
For SSO-related concerns please see the documentation at
https://community.opmantek.com/x/1gDJ

Hit <Enter> when ready to continue:

Do you want to update default secrets now?
Type 'y' or <Enter> to accept, or 'n' to decline:
Updating secrets config with new defaults.

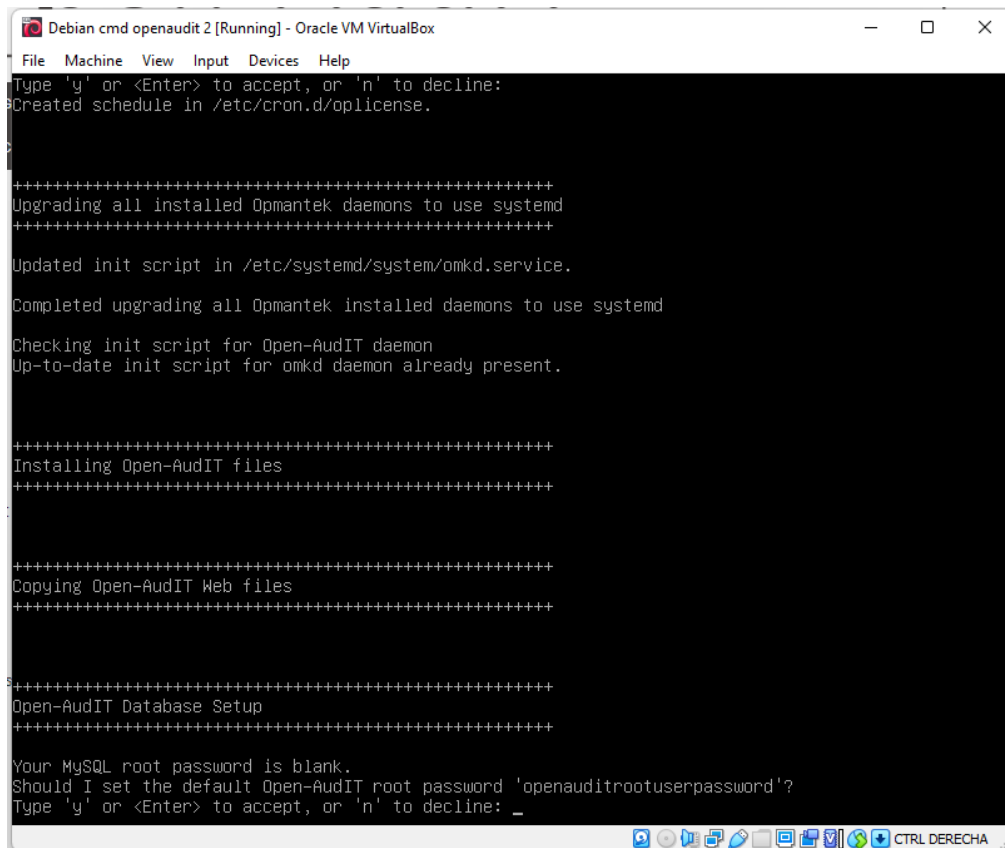
+++++
Integration of Open-Audit with Apache
+++++

Ok to install the updated Apache proxy config file?
Type 'y' or <Enter> to accept, or 'n' to decline:
Enabling Apache
Restarting Apache

+++++
Setting up License Refresh
+++++

Ok to install new License Refresh cron schedule?
Type 'y' or <Enter> to accept, or 'n' to decline:
```

Ahora dice que la contraseña está en blanco y si se quiere poner la contraseña ahí puesta



```
Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Type 'y' or <Enter> to accept, or 'n' to decline:
Created schedule in /etc/cron.d/oplicense.

+++++
Upgrading all installed Opmantek daemons to use systemd
+++++

Updated init script in /etc/systemd/system/omkd.service.

Completed upgrading all Opmantek installed daemons to use systemd

Checking init script for Open-Audit daemon
Up-to-date init script for omkd daemon already present.

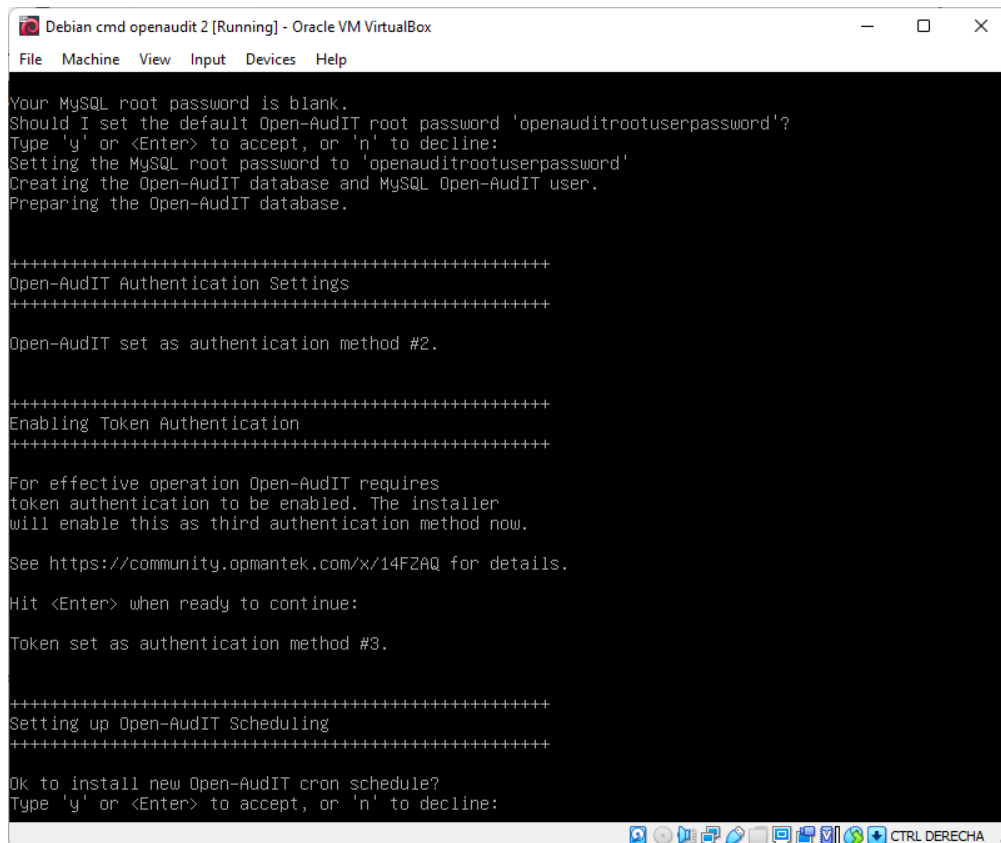
+++++
Installing Open-Audit files
+++++

+++++
Copying Open-Audit Web files
+++++

+++++
Open-Audit Database Setup
+++++

Your MySQL root password is blank.
Should I set the default Open-Audit root password 'openauditrootuserpassword'?
Type 'y' or <Enter> to accept, or 'n' to decline: _
```

Instalar el nuevo cronograma de Open-Audit



```
Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Your MySQL root password is blank.
Should I set the default Open-Audit root password 'openauditrootuserpassword'?
Type 'y' or <Enter> to accept, or 'n' to decline:
Setting the MySQL root password to 'openauditrootuserpassword'
Creating the Open-Audit database and MySQL Open-Audit user.
Preparing the Open-Audit database.

+++++
Open-Audit Authentication Settings
+++++

Open-Audit set as authentication method #2.

+++++
Enabling Token Authentication
+++++

For effective operation Open-Audit requires
token authentication to be enabled. The installer
will enable this as third authentication method now.

See https://community.opmantek.com/x/14FZAQ for details.

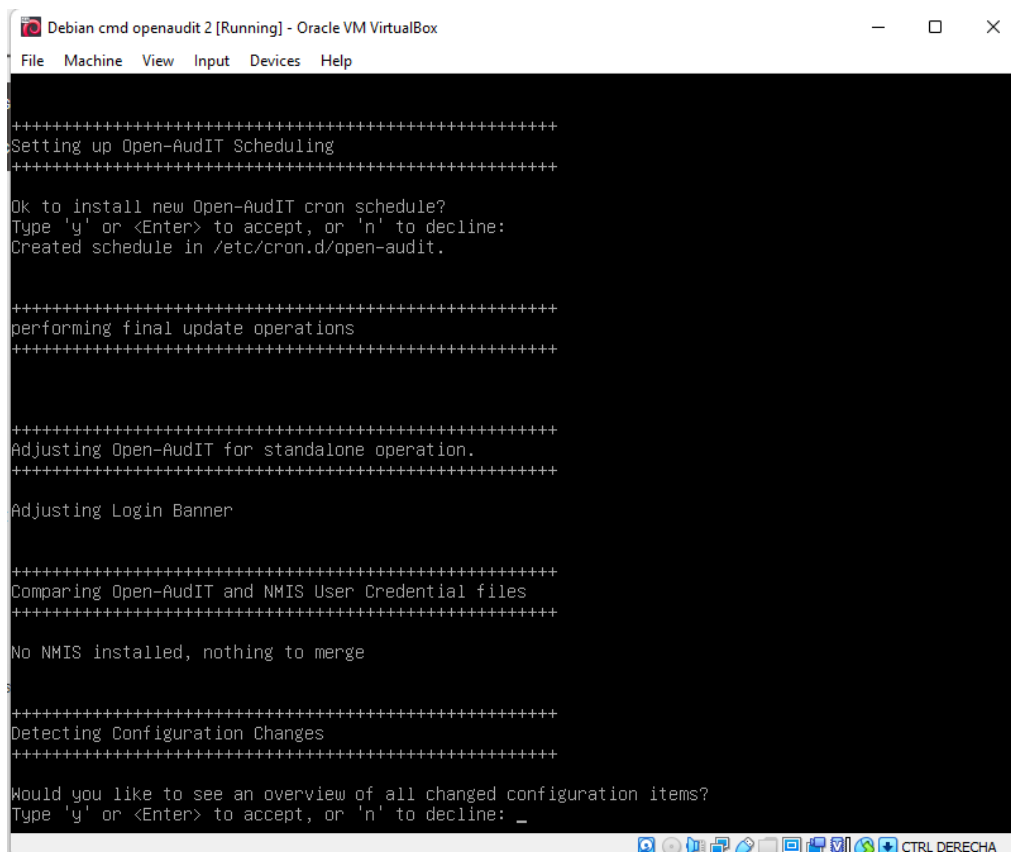
Hit <Enter> when ready to continue:

Token set as authentication method #3.

+++++
Setting up Open-Audit Scheduling
+++++

Ok to install new Open-Audit cron schedule?
Type 'y' or <Enter> to accept, or 'n' to decline:
```

Si quieres hacer una vista general de las configuraciones cambiadas



```
Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

+++++
Setting up Open-Audit Scheduling
+++++

Ok to install new Open-Audit cron schedule?
Type 'y' or <Enter> to accept, or 'n' to decline:
Created schedule in /etc/cron.d/open-audit.

+++++
performing final update operations
+++++

+++++
Adjusting Open-Audit for standalone operation.
+++++

Adjusting Login Banner

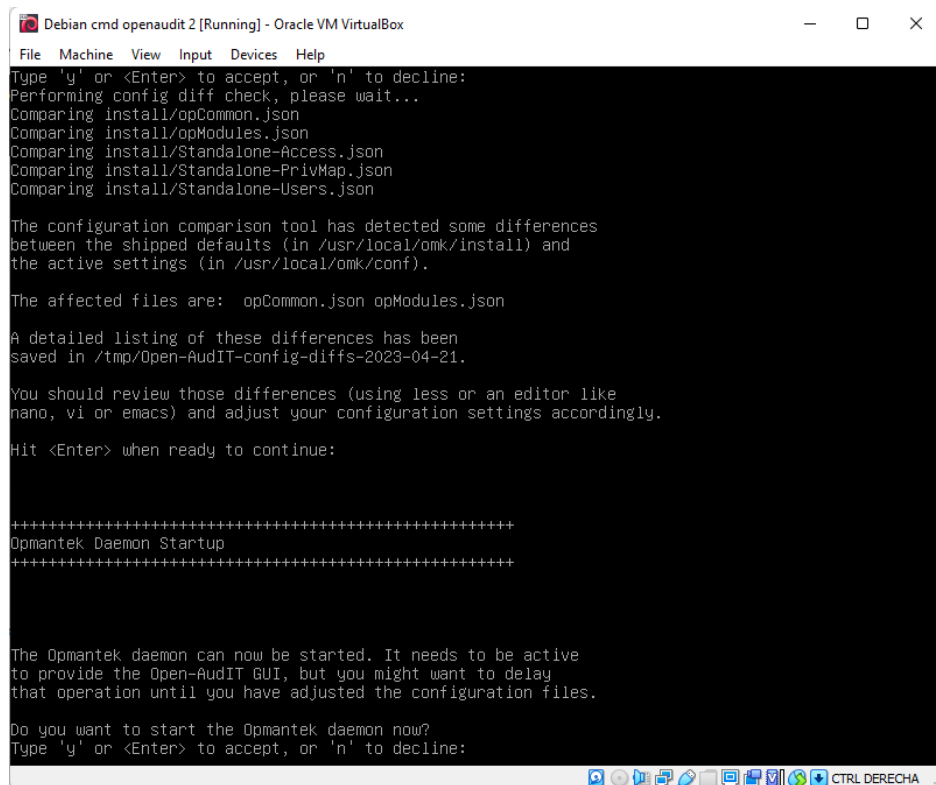
+++++
Comparing Open-Audit and NMIS User Credential files
+++++

No NMIS installed, nothing to merge

+++++
Detecting Configuration Changes
+++++

Would you like to see an overview of all changed configuration items?
Type 'y' or <Enter> to accept, or 'n' to decline: _
```

Se quiere empezar el demonio Opmantek



```
Debian cmd openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Type 'y' or <Enter> to accept, or 'n' to decline:
Performing config diff check, please wait...
Comparing install/opCommon.json
Comparing install/opModules.json
Comparing install/Standalone-Access.json
Comparing install/Standalone-PrivMap.json
Comparing install/Standalone-Users.json

The configuration comparison tool has detected some differences
between the shipped defaults (in /usr/local/omk/install) and
the active settings (in /usr/local/omk/conf).

The affected files are: opCommon.json opModules.json

A detailed listing of these differences has been
saved in /tmp/Open-Audit-config-diffs-2023-04-21.

You should review those differences (using less or an editor like
nano, vi or emacs) and adjust your configuration settings accordingly.

Hit <Enter> when ready to continue:

+++++
Opmantek Daemon Startup
+++++

The Opmantek daemon can now be started. It needs to be active
to provide the Open-Audit GUI, but you might want to delay
that operation until you have adjusted the configuration files.

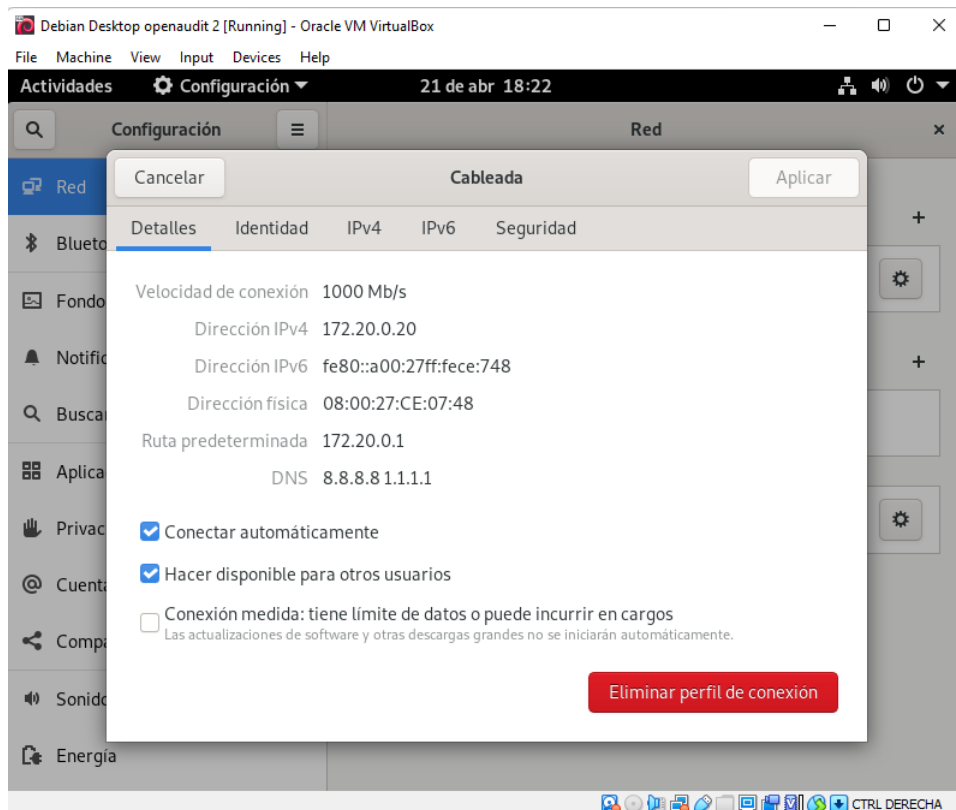
Do you want to start the Opmantek daemon now?
Type 'y' or <Enter> to accept, or 'n' to decline:
```

Una vez realizado todo esto ya estaría instalado, por lo que ya se empezaría con la instalación del cliente.

3. Creación de un cliente

3.1 Preparar la red

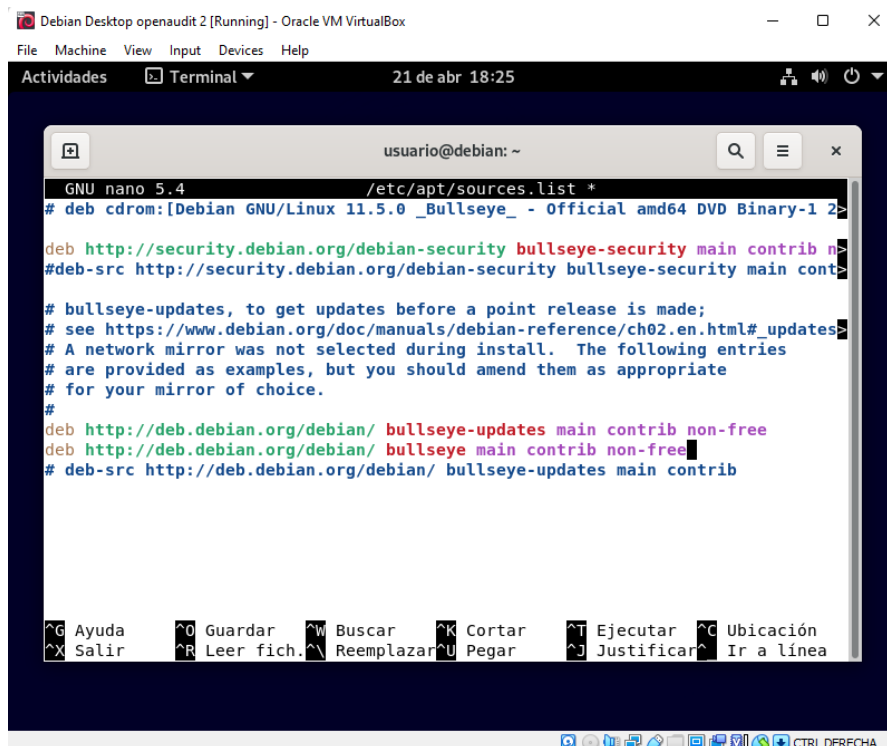
Para empezar hay que poner la red NAT, y poner la ip necesaria en este caso la 172.20.0.20. Y se reinicia la red.



3.2 Preparar la máquina

Una vez terminado la preparación de la red hay que preparar la máquina con:

Nano /etc/apt/sources.list



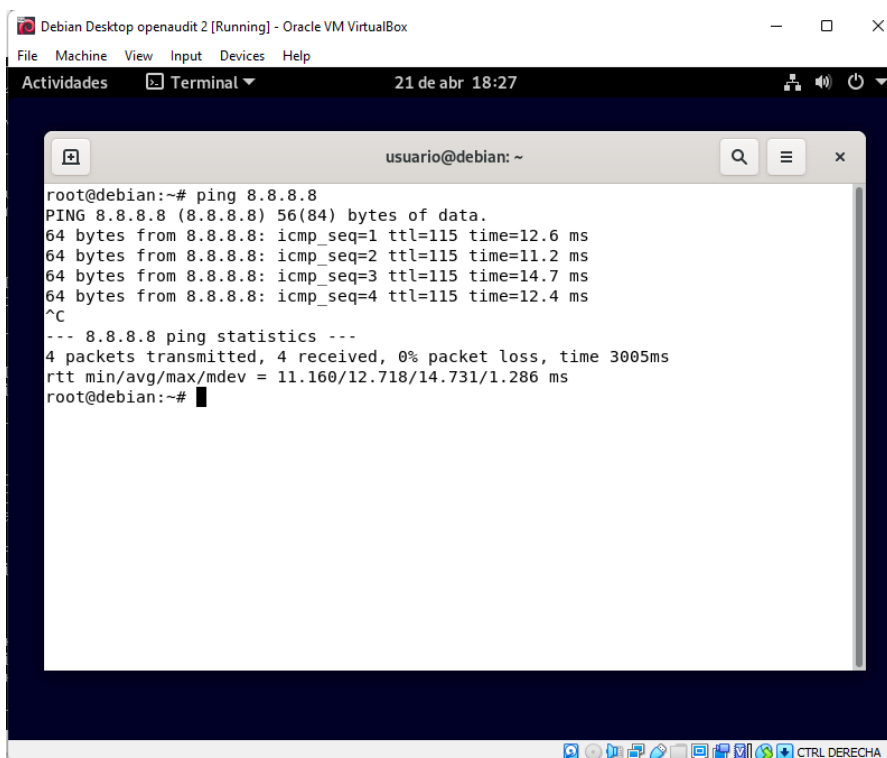
```
Debian Desktop openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Actividades Terminal 21 de abr 18:25

usuario@debian: ~
GNU nano 5.4 /etc/apt/sources.list *
# deb cdrom:[Debian GNU/Linux 11.5.0 _Bullseye_ - Official amd64 DVD Binary-1 2>
deb http://security.debian.org/debian-security bullseye-security main contrib n>
#deb-src http://security.debian.org/debian-security bullseye-security main cont>

# bullseye-updates, to get updates before a point release is made;
# see https://www.debian.org/doc/manuals/debian-reference/ch02.en.html#updates>
# A network mirror was not selected during install. The following entries
# are provided as examples, but you should amend them as appropriate
# for your mirror of choice.
#
deb http://deb.debian.org/debian/ bullseye-updates main contrib non-free
deb http://deb.debian.org/debian/ bullseye main contrib non-free
# deb-src http://deb.debian.org/debian/ bullseye-updates main contrib

^G Ayuda ^O Guardar ^W Buscar ^K Cortar ^T Ejecutar ^C Ubicación
^X Salir ^R Leer fich. ^N Reemplazar ^U Pegar ^J Justificar ^_ Ir a línea
CTRL DERECHA
```

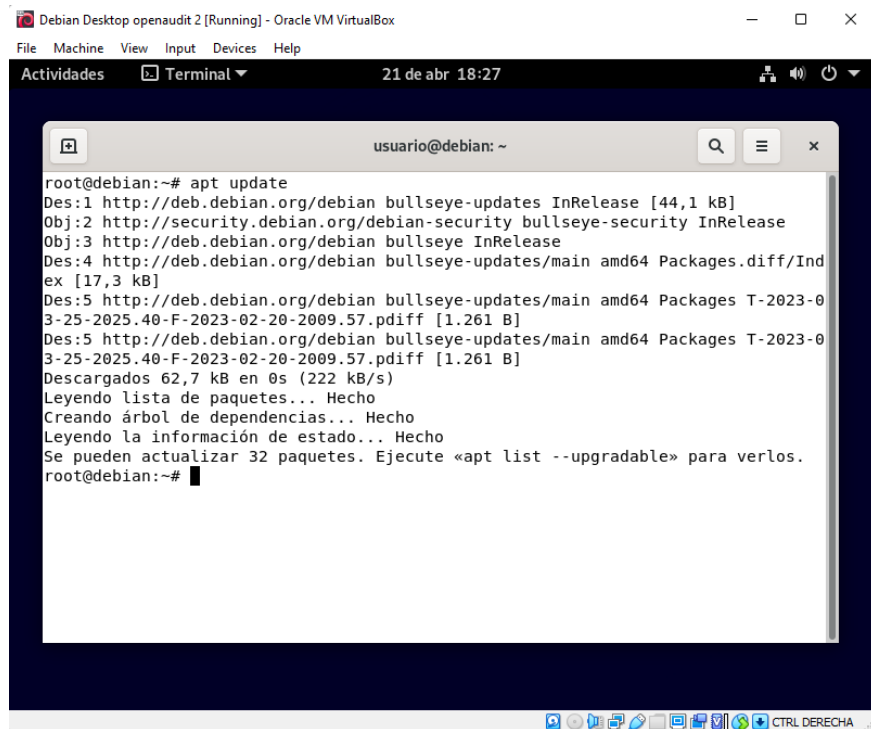
Una vez puesto correctamente los repositorios, se comprueba que vaya la red con un ping al 8.8.8.8.



```
Debian Desktop openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Actividades Terminal 21 de abr 18:27

usuario@debian: ~
root@debian:~# ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=115 time=12.6 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=115 time=11.2 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=115 time=14.7 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=115 time=12.4 ms
^C
--- 8.8.8.8 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3005ms
rtt min/avg/max/mdev = 11.160/12.718/14.731/1.286 ms
root@debian:~#
```

Si todo funciona correctamente se hace un apt updates



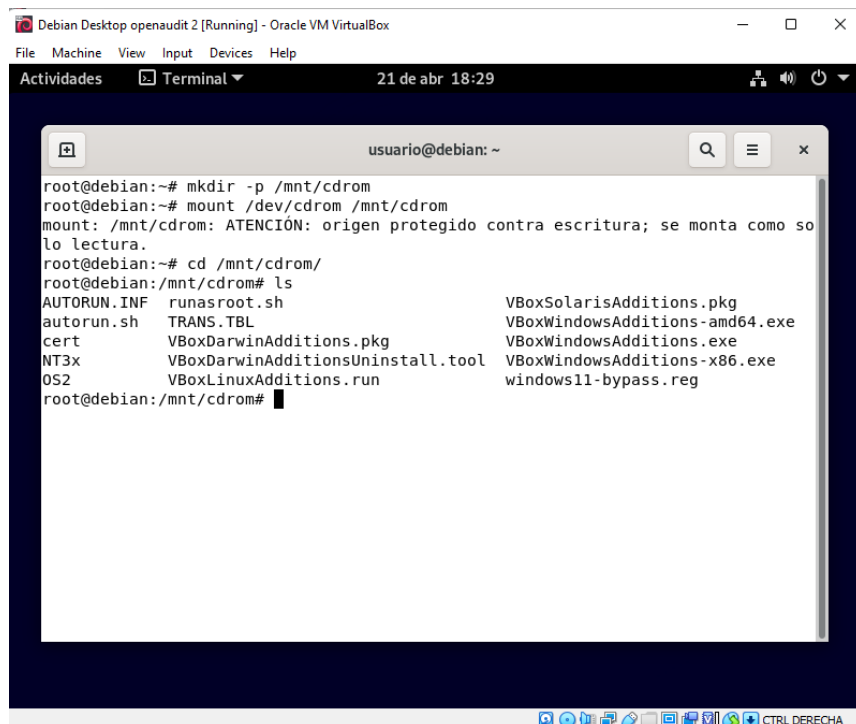
```
Debian Desktop openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Actividades Terminal 21 de abr 18:27

usuario@debian: ~

root@debian:~# apt update
Des:1 http://deb.debian.org/debian bullseye-updates InRelease [44,1 kB]
Obj:2 http://security.debian.org/debian-security bullseye-security InRelease
Obj:3 http://deb.debian.org/debian bullseye InRelease
Des:4 http://deb.debian.org/debian bullseye-updates/main amd64 Packages.diff/Ind
ex [17,3 kB]
Des:5 http://deb.debian.org/debian bullseye-updates/main amd64 Packages T-2023-0
3-25-2025.40-F-2023-02-20-2009.57.pdiff [1.261 B]
Des:5 http://deb.debian.org/debian bullseye-updates/main amd64 Packages T-2023-0
3-25-2025.40-F-2023-02-20-2009.57.pdiff [1.261 B]
Descargados 62,7 kB en 0s (222 kB/s)
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias... Hecho
Leyendo la información de estado... Hecho
Se pueden actualizar 32 paquetes. Ejecute «apt list --upgradable» para verlos.
root@debian:~#
```

Una vez terminado todo, se le añaden las Guest Additions con estos comandos:

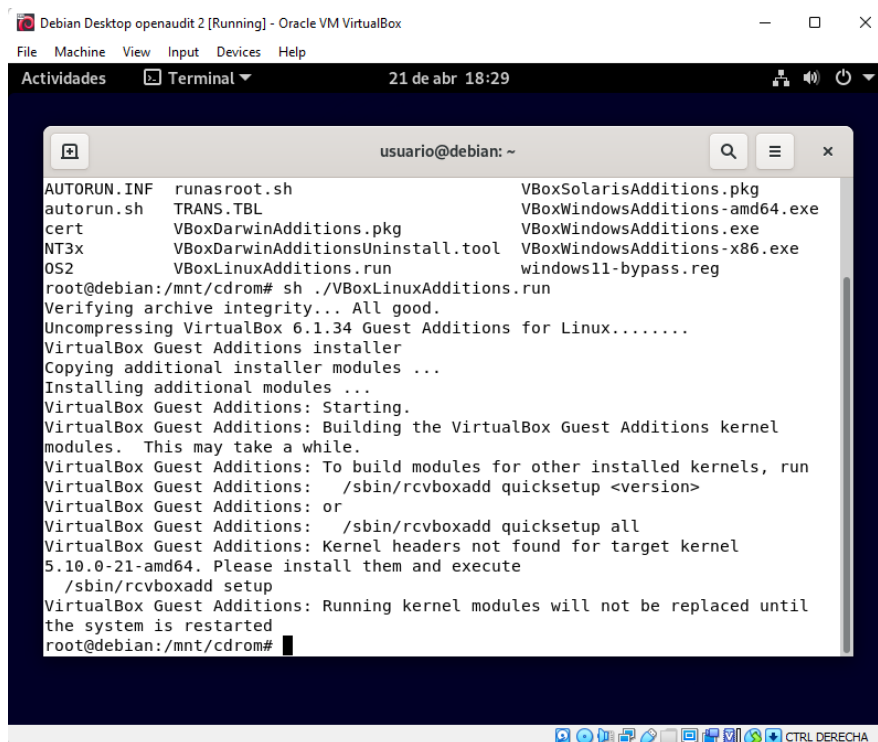
```
9  mkdir -p /mnt/cdrom
10 mount /dev/cdrom /mnt/cdrom
11 cd /mnt/cdrom/
12 ls
13 sh ./VBoxLinuxAdditions.run
14 sh ./VBoxLinuxAdditions.run --nox11
15 reboot
```



```
Debian Desktop openaudit 2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Actividades Terminal 21 de abr 18:29

usuario@debian: ~

root@debian:~# mkdir -p /mnt/cdrom
root@debian:~# mount /dev/cdrom /mnt/cdrom
mount: /mnt/cdrom: ATENCIÓN: origen protegido contra escritura; se monta como so
lo lectura.
root@debian:~# cd /mnt/cdrom/
root@debian:/mnt/cdrom# ls
AUTORUN.INF  runasroot.sh          VBoxSolarisAdditions.pkg
autorun.sh  TRANS.TBL             VBoxWindowsAdditions-amd64.exe
cert        VBoxDarwinAdditions.pkg  VBoxWindowsAdditions.exe
NT3x        VBoxDarwinAdditionsUninstall.tool  VBoxWindowsAdditions-x86.exe
OS2         VBoxLinuxAdditions.run  windows11-bypass.reg
root@debian:/mnt/cdrom#
```

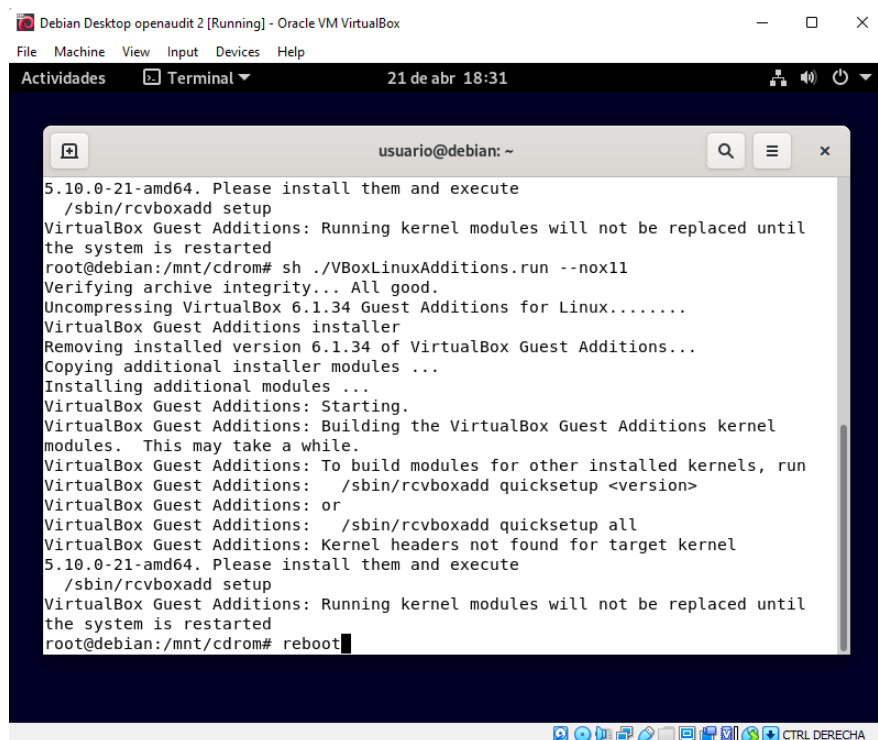


Debian Desktop openaudit 2 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Actividades Terminal 21 de abr 18:29

```
usuario@debian: ~  
AUTORUN.INF runasroot.sh VBoxSolarisAdditions.pkg  
autorun.sh TRANS.TBL VBoxWindowsAdditions-amd64.exe  
cert VBoxDarwinAdditions.pkg VBoxWindowsAdditions.exe  
NT3x VBoxDarwinAdditionsUninstall.tool VBoxWindowsAdditions-x86.exe  
OS2 VBoxLinuxAdditions.run windows11-bypass.reg  
root@debian:/mnt/cdrom# sh ./VBoxLinuxAdditions.run  
Verifying archive integrity... All good.  
Uncompressing VirtualBox 6.1.34 Guest Additions for Linux.....  
VirtualBox Guest Additions installer  
Copying additional installer modules ...  
Installing additional modules ...  
VirtualBox Guest Additions: Starting.  
VirtualBox Guest Additions: Building the VirtualBox Guest Additions kernel  
modules. This may take a while.  
VirtualBox Guest Additions: To build modules for other installed kernels, run  
VirtualBox Guest Additions: /sbin/rcvboxadd quicksetup <version>  
VirtualBox Guest Additions: or  
VirtualBox Guest Additions: /sbin/rcvboxadd quicksetup all  
VirtualBox Guest Additions: Kernel headers not found for target kernel  
5.10.0-21-amd64. Please install them and execute  
/sbin/rcvboxadd setup  
VirtualBox Guest Additions: Running kernel modules will not be replaced until  
the system is restarted  
root@debian:/mnt/cdrom#
```



Debian Desktop openaudit 2 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

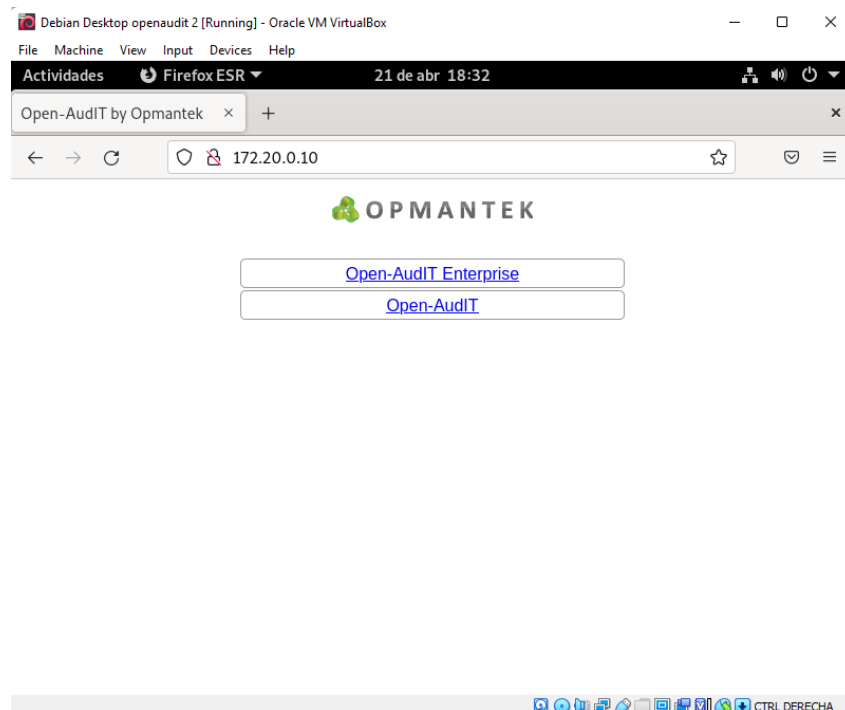
Actividades Terminal 21 de abr 18:31

```
usuario@debian: ~  
5.10.0-21-amd64. Please install them and execute  
/sbin/rcvboxadd setup  
VirtualBox Guest Additions: Running kernel modules will not be replaced until  
the system is restarted  
root@debian:/mnt/cdrom# sh ./VBoxLinuxAdditions.run --nox11  
Verifying archive integrity... All good.  
Uncompressing VirtualBox 6.1.34 Guest Additions for Linux.....  
VirtualBox Guest Additions installer  
Removing installed version 6.1.34 of VirtualBox Guest Additions...  
Copying additional installer modules ...  
Installing additional modules ...  
VirtualBox Guest Additions: Starting.  
VirtualBox Guest Additions: Building the VirtualBox Guest Additions kernel  
modules. This may take a while.  
VirtualBox Guest Additions: To build modules for other installed kernels, run  
VirtualBox Guest Additions: /sbin/rcvboxadd quicksetup <version>  
VirtualBox Guest Additions: or  
VirtualBox Guest Additions: /sbin/rcvboxadd quicksetup all  
VirtualBox Guest Additions: Kernel headers not found for target kernel  
5.10.0-21-amd64. Please install them and execute  
/sbin/rcvboxadd setup  
VirtualBox Guest Additions: Running kernel modules will not be replaced until  
the system is restarted  
root@debian:/mnt/cdrom# reboot
```

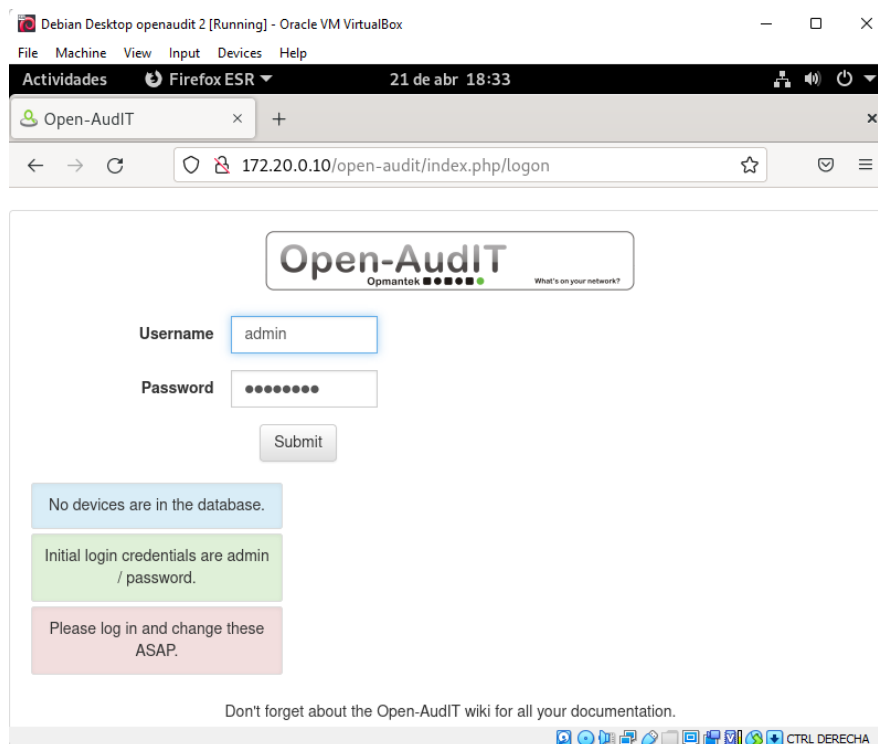
Una vez se reinicie ya estará todo preparado para el siguiente paso.

3.3 Entrar a la aplicación

Para entrar tendremos que ir a un navegador y poner la ip del servidor anteriormente creado, una vez le das a intro, aparecerá esto:



Es esta interfaz se le pulsa a la segunda opción y te aparecerá para poner un usuario y la contraseña, el usuario predeterminado es “admin” y la contraseña predeterminada es “password”



Una vez dentro aparecerá una pantalla con distintas opciones

Debian Desktop openaudit 2 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Actividades Firefox ESR 21 de abr 18:33

Open-AuditT x +

172.20.0.10/open-audit/index.php/summaries

Open-AuditT Community 4.3.4 View Discover Report Manage Modules Licenses Admin Help admin

Resources

Applications (0)	Attributes (206)	Baselines (0)	Buildings (1)	Clouds (0)	Clusters (0)	Collectors (0)	Configuration (163)	Connections (0)	Credentials (0)	Dashboards (5)	Database (112)
Devices (0)	Discoveries (2)	Discovery Log (0)	Scan Options (7)	Fields (0)	Files (0)	Floors (1)	Groups (16)	Integrations (1)	LDAP Servers (0)	Licenses (0)	Locations (1)
Logs (1)	Networks (2)	Organisations (1)	Queries (42)	Rack Devices (0)	Racks (0)	Reports (12)	Roles (5)	Rooms (1)	Rows (1)	Rules (56)	Scripts (7)
Summaries (13)	Tasks (0)	Users (3)	Widgets (50)								

Summaries

Device Name or full IP Submit 0

Export Create 13 of 13 results

Execute	Details	Name	Delete
		Device Classes	
		Device Status	
		Device Types	

CTRL DERECHA

3.4 Funcionalidades

En el apartado de discover, en credentials y list credentials. Ahí se puede ver las distintas credenciales anteriormente creadas. Una vez pulsado al que te interese te aparecerá un apartado como este, donde te pone un resumen de tu red.

The screenshot shows the Open-AuditT Enterprise 4.3.4 web interface. The browser address bar shows the URL `172.20.0.10/es/omk/open-audit/discoveries/8#summary`. The interface has a dark header with navigation tabs: Home, Discoveries, Device Discovery - 172.20.0.20. A dropdown menu is open under 'Discover', showing options: Clouds, Credentials, Discoveries, Files, and Audit Scripts. The main content area displays a summary for a subnet discovery named 'Device Discovery - 172.20.0.20'. The status is 'complete'. A table lists the following details:

Estado	complete
Started On	2023-05-05 17:03:47
Completed On	2023-05-05 17:03:48
Duration	00:00:01
All IP Addresses	1
Responding IPs	1
Devices Discovered	0
Devices Unknown or Unclassified	0

At the bottom, there is a license notice: 'Open-AuditT Enterprise 4.x is licensed to your company for 20 Nodes compliments of Opmantek. Your node count is 0 nodes. Purchase a license for more nodes by clicking [here](#).' and a button 'Impulsado por Opmantek'.

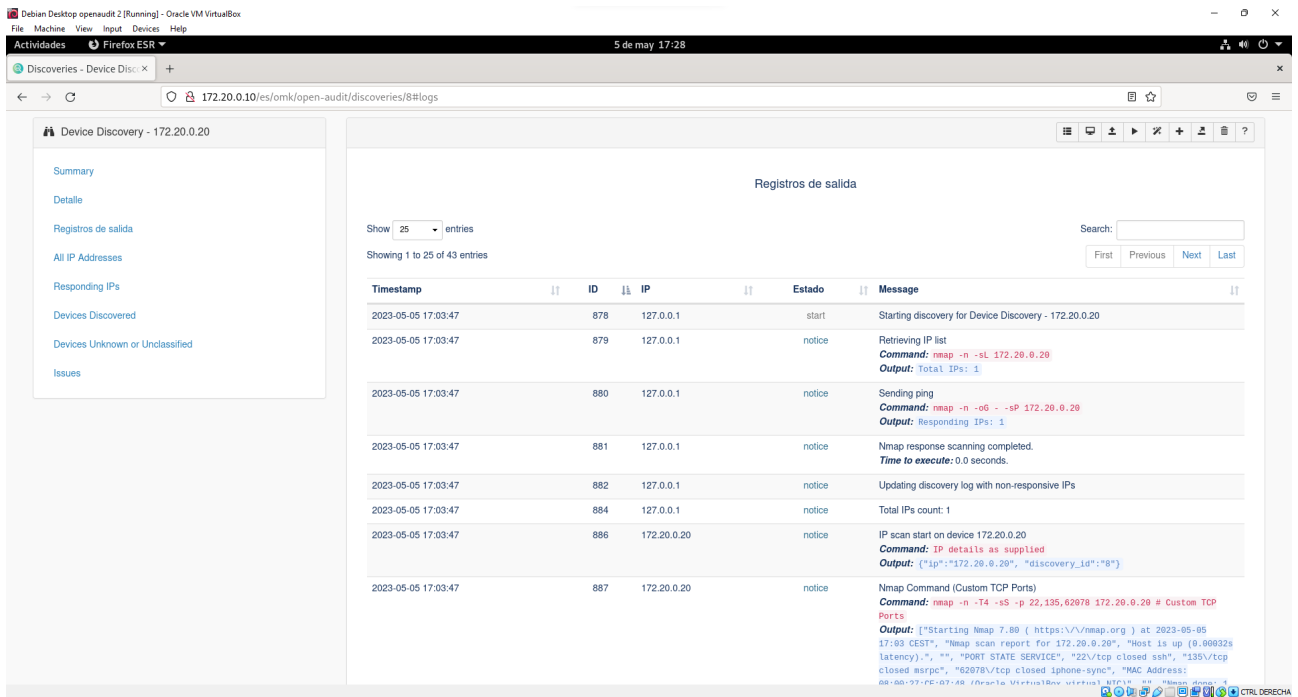
En el apartado de detalle se le puede cambiar algunas configuraciones para que se personalice a tu red.

The screenshot shows the Open-AuditT Enterprise 4.3.4 web interface, specifically the 'Detalle' (Details) view for the same subnet discovery. The browser address bar shows the URL `172.20.0.10/es/omk/open-audit/discoveries/8#details`. The interface has a dark header with navigation tabs: Home, Discoveries, Device Discovery - 172.20.0.20. The main content area displays the details for the subnet discovery. The status is 'complete'. A table lists the following details:

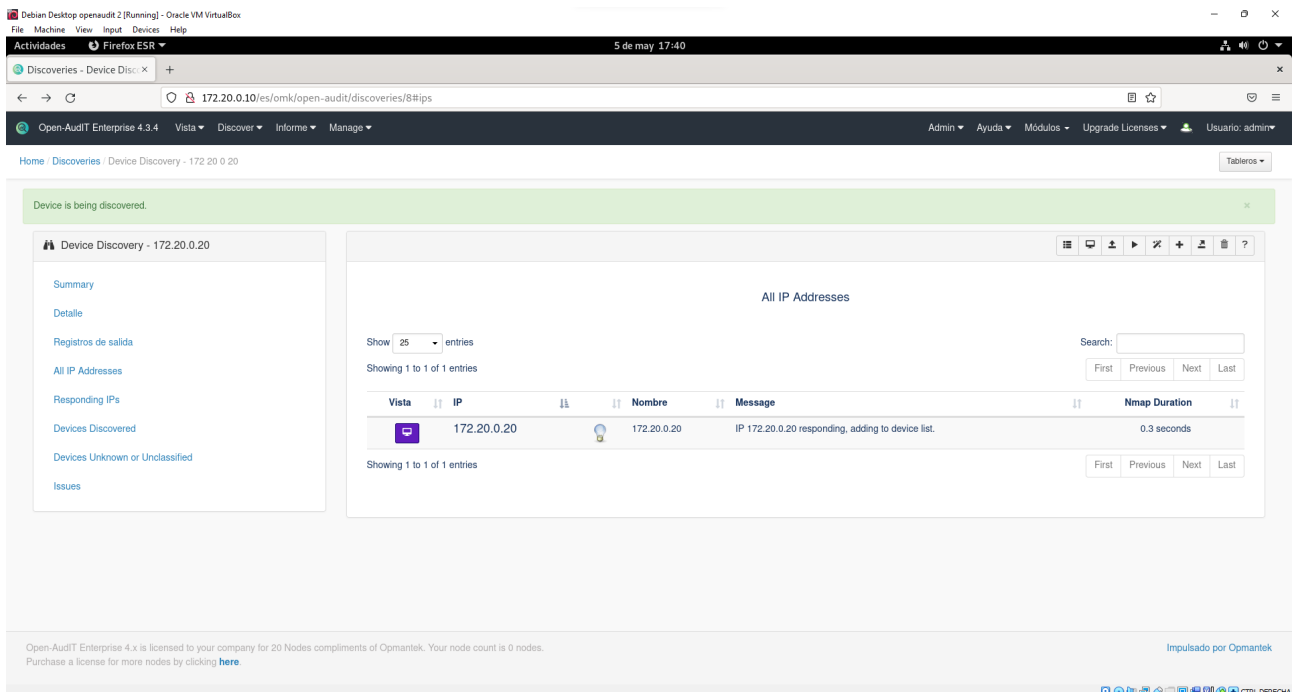
Detalle	
ID	8
Nombre	Device Discovery - 172.20.0.20
Org ID	Default Organisation
Descripción	IP - 172.20.0.20
Tipo	subnet
Subred	172.20.0.20
Assign Devices to Org	
Assign Devices to Location	
Editado Por	Administrator
Fecha de Edición	2023-05-05 17:03:47

At the bottom, there is a 'Scan Options' section.

En detalles de salida aparece todas las operaciones que se realiza en la credencial en la que se está.



En el apartado de all IP Addresses, se le pulsa al símbolo de la pantalla con fondo morado para acceder a un menú mayor.



En el apartado hay, cuatro opciones para elegir: Acciones, Summary, Ajustes y Applications, dentro de las 4 opciones hay muchos apartados donde se puede ver información detallada de la red.

Debian Desktop openaudit 2 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Actividades Firefox ESR 5 de may 17:47

Devices - 172.20.0.20 x +

172.20.0.10/es/omk/open-audit/devices/3#

Open-Audit Enterprise 4.3.4 Vista Discover Inform Manage Admin Ayuda Módulos Upgrade Licenses Usuario: admin

Home Devices 172.20.0.20 Tableros

Acciones

Summary

Summary

Details

Attachments

Cell Details

Change Log 1

Clusters

Credentials

Discovery Issues

Discovery Log 139

Edit Log 9

Fields

Images

IP Addresses

Location

Opmantek Details

Summary - 172.20.0.20

Nombre

172.20.0.20

IP

172.20.0.20

Tipo

Unclassified

Descripción

OS Family

Organización

Default Organisation

Owner

Estado

Production

Environment

Production

Fabricante

Pcs Systemtechnik GmbH

Model

Serial

Discovery Issues

Search:

ID	Discovery Name	Timestamp	Estado	Message
916	Device Discovery - 172.20.0.20	2023-05-05 17:03:48	Fail	No management protocols for 172.20.0.20

Showing 1 to 1 of 1 entries

First Previous Next Last

IP Addresses

Search:

Vista	Conexión	Mac	Dirección IP	Netmask	CIDR	Versión	Network
-------	----------	-----	--------------	---------	------	---------	---------