Installatie van Debian

Download een image bestande van Debian Net Installation

https://www.debian.org/CD/netinst/

Kies het juiste image voor jouw architectuur (vermoedelijk AMD64).

Netwerkinstallatie vanaf een minimale CD

Een "netwerkinstallatie"- of "netinst"-CD is één CD die u in staat stelt om het volledige besturingssysteem te ins illeren. Deze ene CD bevat enkel de minimale hoeveelheid aan software om de installatie te starten en de overige pakketten op te halen vanaf het internet.

Wat is beter voor mij — de minimale opstartbare CD of de volledige CD's?. Dat hangt ervan af, maar wij lenken dat in de meeste gevallen de minimale CD beter is. U hoeft alleen die pakketten die u tijdens de installatie voor uw machine selecteert te downloaden. Dit spaart z wel tijd als bandbreedte. De volledige CD's zijn geschikter als u meerdere machines wilt installeren, of een machine zonder goedkope internetverbinding.

Welke types van netwerkverbindingen worden ondersteund tijdens de Installatie? De netwerkinstall die gaat ervan uit dat u een verbinding met internet heeft. Hierbij worden verschillende manieren ondersteund, zoals een analoge PPP-inbelverbinding, ethernet en WLA\) met enkele beperkingen), maar geen ISDN — sorry!

De volgende minimale opstartbare CD-images kunnen gedownload worden:

- Officiële "netinst" images voor de "stable" release <u>zie hieronder</u>
- Images voor de "testing" release, zowel versies die dagelijks gebouwd worden als momentopnam" s waarvan geweten is dat ze zeker werken. Zie de Debian-Installer pagina.

Officiële netinstallatie-images voor de "stable" release

Tot 300 MB groot. Dit image bevat de installer en een klein aantal pakketten dat de installatie var een (erg) basaal systeem toelaat.

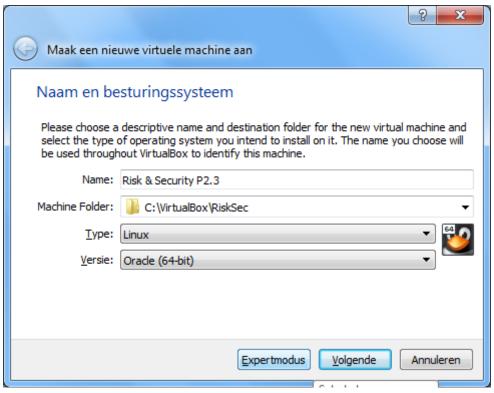
netinst CD-image (via bittorrent)

netinst CD-mage (normaal 150-300 MB, afhankelijk van de architectuur)

amd64, arm64, armel, armhf, i386, mips, mips64el, mipsel, ppc64el, s390x

amd64, arm64, armel, armhf, i386, mips, mips64el, mipsel, ppc64el, s390x

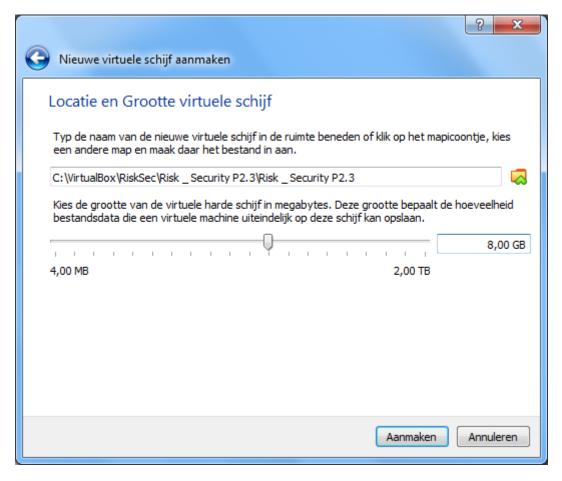
Installeer deze via Virtual Box.



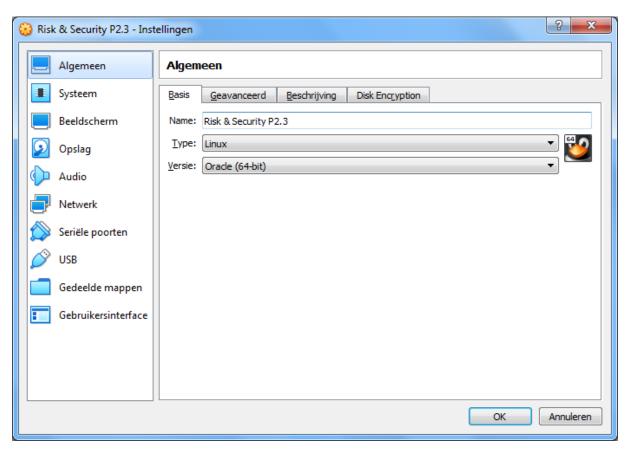


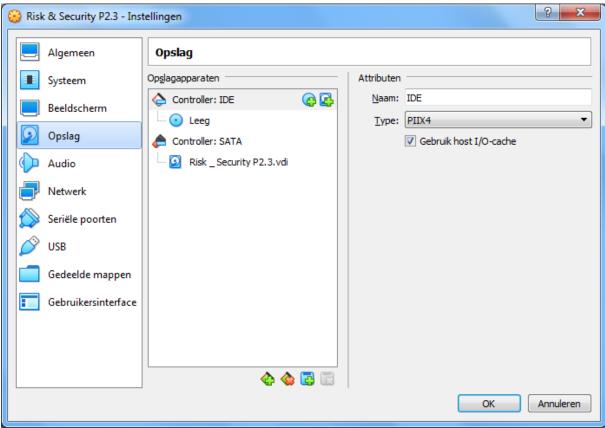


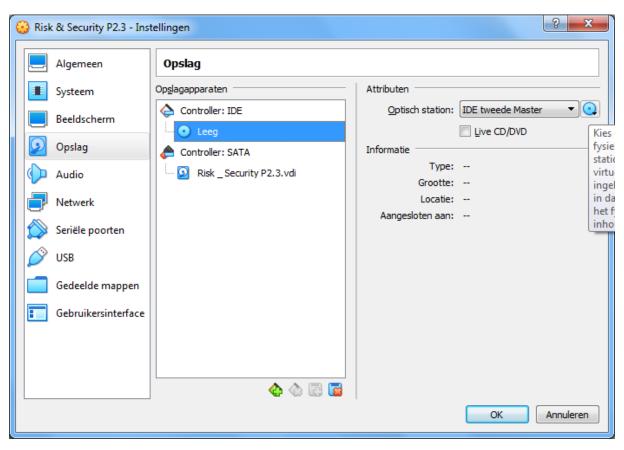


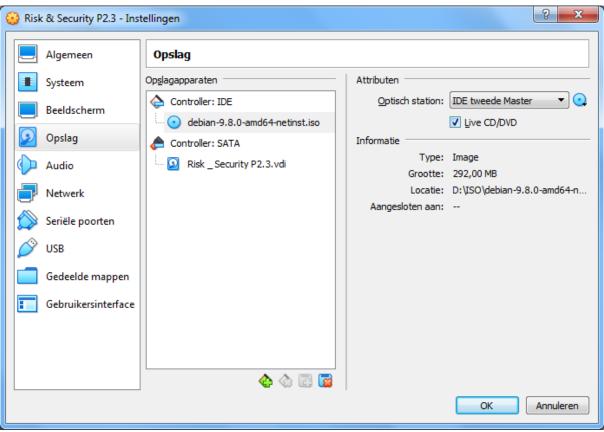


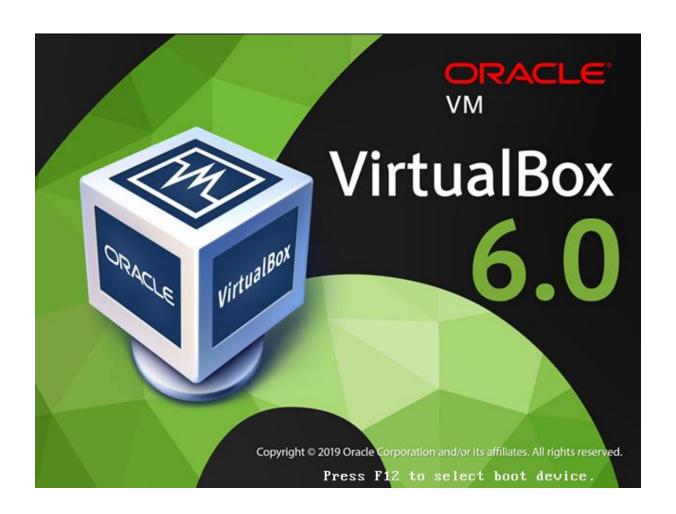


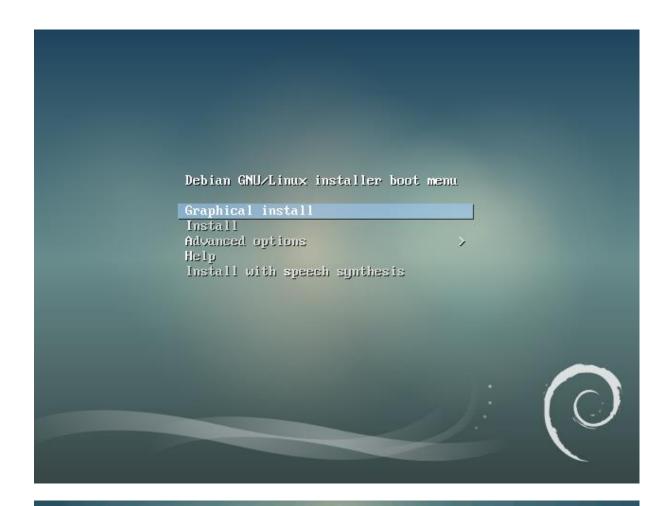








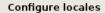






Select your location The selected location will be used to set your time zone and also for example to help select the system locale. Normally this should be the country where you live. Select the continent or region to which your location belongs. Continent or region. Africa **Antarctica** Asia Atlantic Ocean Caribbean Central America Europe Indian Ocean North America Oceania South America other Screenshot Go Back Continue debian 9

Select your location The selected location will be used to set your time zone and also for example to help select the system locale. Normally this should be the country where you live. Listed are locations for: Europe. Use the <Go Back> option to select a different continent or region if your location is not listed. Country, territory or area: Lithuania Luxembourg Macedonia, Republic of Malta Moldova Monaco Montenegro Netherlands Norway Poland Portugal Romania **Russian Federation** San Marino Serbia n Screenshot оо васк continue



There is no locale defined for the combination of language and country you have selected. You can now select your preference from the locales available for the selected language. The locale that will be used is listed in the second column.

Country to base default locale settings on:

CII_AO.O II -0 Botswana en BW.UTF-8 Canada en_CA.UTF-8 Hong Kong en_HK.UTF-8 India en_IN Ireland en_IE.UTF-8 Israel en_IL New Zealand en NZ.UTF-8 Nigeria - en NG Philippines - en_PH.UTF-8 Singapore en_SG.UTF-8 South Africa en_ZA.UTF-8 en_GB.UTF-8 United Kingdom United States - en_US.UTF-8 Zambia en_ZM Zimbabwe en_ZW.UTF-8

Screenshot Help Go Back Continue

debian 9

Go Back

Continue

Configure the keyboard

Screenshot

Keymap to use: American English Albanian Arabic Asturian Bangladesh Belarusian Bengali Belgian Bosnian Brazilian British English Bulgarian (BDS layout) **Bulgarian (phonetic layout)** Canadian French Canadian Multilingual Catalan Chinasa

Configure the network

Waiting for link-local address...

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Cancel

debian 9

Configure the network

Configuring the network with DHCP

Network autoconfiguration has succeeded

ķ

Cancel

Configure the network		
Please enter the hostname for this system.		
The hostname is a single word that identified hostname should be, consult your network a you can make something up here. Hostname:	es your system to the network. administrator. If you are setting	If you don't know what your g up your own home network,
risksed		
	*	
Screenshot		Go Back Continue
Screenshot		do Back Continue
1.	debian 9	
Configure the network		
The domain name is the part of your Interne something that ends in .com, .net, .edu, or . something up, but make sure you use the sa	org. If you are setting up a ho	me network, you can make
	*	
Screenshot		Go Back Continue

debidit)				
Set up users and passwords				
You need to set a password for 'root', the system administrative account. A malicious or unqualified user with root access can have disastrous results, so you should take care to choose a root password that is not easy to guess. It should not be a word found in dictionaries, or a word that could be easily associated with you.				
A good password will contain a mixture of letters, numbers and punctuation and should be changed at regular intervals.				
The root user should not have an empty password. If you leave this empty, the root account will be disabled and the system's initial user account will be given the power to become root using the "sudo" command.				
Note that you will not be able to see the password a \widety you type it. Root password:				
☐ Show Password in Clear				
Please enter the same root password again to verify that you have typed it correctly. Re-enter password to verify:				
Show Password in Clear				
Show Password in Clear				
Screenshot Go Back Continue				
debian 9				
Set up users and passwords				
You need to set a password for 'root', the system administrative account. A malicious or unqualified user with root access can have disastrous results, so you should take care to choose a root password that is not easy to guess. It should not be a word found in dictionaries, or a word that could be easily associated with you.				
A good password will contain a mixture of letters, numbers and punctuation and should be changed at regular intervals.				
The root user should not have an empty password. If you leave this empty, the root account will be disabled and the system's initial user account will be given the power to become root using the "sudo" command.				
Note that you will not be able to see the password a you type it. Root password:				
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☐ Show Password in Clear				
Please enter the same root password again to verify that you have typed it correctly.				
Re-enter password to verify:				
••••••				
☐ Show Password in Clear				

Go Back

Continue

Screenshot

lease enter the real name of this user. This information will be used for instance as default origin for mails sent by this user as well as any program which displays or uses the user's real name. Your full ame for the new user: Hartin Molemal Creenshot Go Back Continue debian 9 et up users and passwords elect a username for the new account. Your first name is a reasonable choice. The username should lart with a lower-case letter, which can be followed by any combination of numbers and more lower-asse letters. Seartin	A user account will be created for you	uto use instead of the root account for	non-administrative activities
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Set up users and passwords	
A good password will contain a mixture of letters, numbers and pun- regular intervals. Choose a password for the new user:	tuation and should be changed at
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Show Password in Clear	
Please enter the same user password again to verify you have type	Lit correctly
Re-enter password to verify:	ric correctly.
•••••	
□ Show Password in Clear	
Screenshot	Go Back Continue
debian	9
Partition disks	9
	Select a partition to modify its settings
Partition disks This is an overview of your currently configured partitions and mount points.	Select a partition to modify its settings
Partition disks This is an overview of your currently configured partitions and mount points. (file system, mount point, etc.), a free space to create partitions, or a device	Select a partition to modify its settings
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Partition disks If you choose guided partitioning for an entire disk, you will next be asked which disk should be used. Partitioning method: Guided - use entire disk Guided - use entire disk and set up LVM Guided - use entire disk and set up encrypted LVM Manual ķ Screenshot Go Back Continue debian 9 Partition disks Select disk to partition: SCSI3 (0,0,0) (sda) - 8.6 GB ATA VBOX HARDDISK

Screenshot Go Back Continue

Partition disks Selected for partitioning: SCSI3 (0,0,0) (sda) - ATA VBOX HARDDISK: 8.6 GB The disk can be partitioned using one of several different schemes. If you are unsure, choose the first one. Partitioning scheme: All files in one partition (recommended for new users) Separate /home partition A Screenshot Go Back Continue

debian 9

Partition disks

This is an overview of your currently configured partitions and mount points. Select a partition to modify its settings (file system, mount point, etc.), a free space to create partitions, or a device to initialize its partition table.

Guided partitioning

Configure software RAID

Configure the Logical Volume Manager

Configure encrypted volumes

Configure iSCSI volumes

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▽ SCSI3 (0,0,0) (sda) - 8.6 GB ATA VBOX HARDDISK

> #1 primary 5.4 GB f ext4

> #5 logical 3.1 GB f swap swap

Undo changes to partitions

Finish partitioning and write changes to disk

Screenshot

Help

Go Back

Continue

Partition disks

This is an overview of your currently configured partitions and mount points. Select a partition to modify its settings (file system, mount point, etc.), a free space to create partitions, or a device to initialize its partition table.

Guided partitioning

Configure software RAID

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▽ SCSI3 (0,0,0) (sda) - 8.6 GB ATA VBOX HARDDISK

> #1 primary 5.4GB f ext4

> #5 logical 3.1 GB f swap swap

Undo changes to partitions

Finish partitioning and write changes to disk

Screenshot

Help

Go Back

Continue

debian 9

Partition disks

If you continue, the changes listed below will be written to the disks. Otherwise, you will be able to make further changes manually.

The partition tables of the following devices are changed: SCSI3 (0,0,0) (sda)

The following partitions are going to be formatted: partition #1 of SCSI3 (0,0,0) (sda) as ext4 partition #5 of SCSI3 (0,0,0) (sda) as swap

Write the changes to disks?

○ No □

Yes

Screenshot

Continue

Install the base system

Installing the base system

Retrieving libacl1...

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debian 9

Install the base system

Installing th<mark>e base system</mark>

Unpacking the base system...

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Configure the package manager Your installation CD or DVD has been scanned; its label is: Debian GNU/Linux 9.8.0 Stretch - Official amd64 NETINST 20190216-11:59 You now have the option to scan additional CDs or DVDs for use by the package manager (apt). Normally these should be from the same set as the installation CD/DVD. If you do not have any additional CDs or DVDs available, this step can just be skipped. If you wish to scan another CD or DVD, please insert it now. Scan another CD or DVD? No K Yes Screenshot Go Back Continue debian 9 Configure the package manager The goal is to find a mirror of the Debian archive that is close to you on the network -- be aware that nearby countries, or even your own, may not be the best choice. Debian archive mirror country: Korea, Republic of Latvia Lithuania Luxembourg Macedonia, Republic of Malaysia Mexico Moldova Netherlands New Caledonia New Zealand Norway **Philippines** Poland Portugal Romania Russian Federation Screenshot Go Back Continue

Configure the package manager

Please select a Debian archive mirror. You should use a mirror in your country or region if you do not know which mirror has the best Internet connection to you.

Usually, ftp.<your country code>.debian.org is a good choice.

Debian archive mirror:

ftp.nl.debian.org

ftp.snt.utwente.nl

mirror.nl.leaseweb.net

deb.delkian.org

debian-archive.trafficmanager.net

debmirror.tuxis.nl

mirror.1000mbps.com

mirror.i3d.net

debian.mirror.cambrium.nl

mirror.proserve.nl

ftp.debian.nl

ftp.nluug.nl

mirrors.noction.com

mirror.dataone.nl

mirror.nforce.com

Screenshot

Go Back

Continue

debian 9

Configure the package manager

If you need to use a HTTP proxy to access the outside world, enter the proxy information here. Otherwise, leave this blank.

The proxy information should be given in the standard form of "http://[[user][:pass]@]host[:port]/".

HTTP proxy information (blank for none):

Screenshot

Go Back

Continue

Configure the package manager

Configuring apt

Retrieving file 6 of 7

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Cancel

debian 9

Select and install software

Select and install software

Upgrading software...

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Configuring popularity-contest The system may anonymously supply the distribution developers with statistics about the most used packages on this system. This information influences decisions such as which packages should go on the first distribution CD. If you choose to participate, the automatic submission script will run once every week, sending statistics to the distribution developers. The collected statistics can be viewed on http://popcon.debian.org/. This choice can be later modified by running "dpkg-reconfigure popularity-contest". Participate in the package usage survey? No Yes Screenshot Go Back Continue debian 9 Software selection At the moment, only the core of the system is installed. To tune the system to your needs, you can choose to install one or more of the following predefined collections of software. Choose software to install: Debian desktop environment ☐ ... GNOME ☐ ... Xfce ☐ ... KDE ☐ ... Cinnamon ☐ ... MATE □ ... LXDE web server print server ✓ SSH server ✓ standard system utilities Screenshot Go Back Continue

Select and install software

Select and install software

Retrieving file 107 of 140

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debian 9

Select and install software

Select and install software

Configuring ca-certificates (amd64)

Install the GRUB boot loader on a hard disk

Installing GRUB boot loader

Retrieving file 3 of 3

k

debian 9

Install the GRUB boot loader on a hard disk

It seems that this new installation is the only operating system on this computer. If so, it should be safe to install the GRUB boot loader to the master boot record of your first hard drive.

Warning: If the installer failed to detect another operating system that is present on your computer, modifying the master boot record will make that operating system temporarily unbootable, though GRUB can be manually configured later to boot it.

Install the GRUB boot loader to the master boot record?

○ No

Yes

Screenshot

Go Back

Continue

Install the GRUB boot loader on a hard disk

You need to make the newly installed system bootable, by installing the GRUB boot loader on a bootable device. The usual way to do this is to install GRUB on the master boot record of your first hard drive. If you prefer, you can install GRUB elsewhere on the drive, or to another drive, or even to a floppy.

Device for boot loader installation:

Enter device manually

/dev/sda (ata-VBOX_HARDDISK_VB4e195bb9-5d8333e6)

Screenshot

Go Back

Continue

debian 9

Finish the installation

Finishing the installation

Disabling netinst CD in sources.list...

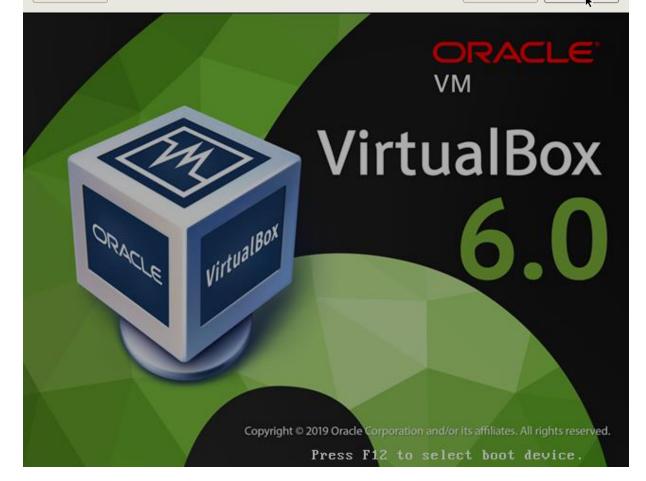
Finish the installation



Installation complete

Installation is complete, so it is time to boot into your new system. Make sure to remove the installation media, so that you boot into the new system rather than restarting the installation.

Screenshot Go Back Continue



Debian GNU/Linux 9 risksec tty1	
risksec login:	
Debian GNU/Linux 9 risksec tty1	
risksec login: root Password: _	

```
Debian GNU/Linux 9 risksec tty1

risksec login: root
Password:
Last login: Wed Feb 12 15:04:42 CET 2020 on tty1
Linux risksec 4.9.0-12-amd64 #1 SMP Debian 4.9.210-1 (2020-01-20) x86_64

The programs included with the Debian GNU/Linux system are free software:
the exact distribution terms for each program are described in the
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permitted by applicable law.
root@risksec:"#
```

```
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permitted by applicable law.
root@risksec: "# dhclient
RTNETLINK answers: File exists
root@risksec: "# jaddr

1: lo: <loopBack_UP_LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1
link/loopback_O0:00:00:00:00:00 brd 00:00:00:00:00
inet 127.0.0.1/8 scope host 10
    valid_lft forever preferred_lft forever
inet6 ::1/128 scope host
    valid_lft forever preferred_lft forever
2: enpos3: (BROADOAST,MULTICAST,UP_LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1
000
    link/ether 08:00:27:43:e4:2c brd ff:ff:ff:ff:ff
inet 10.0.2.15/24 brd 10.0.2.255 scope global enpos3
    valid_lft forever preferred_lft forever
inet6 fe80::a00:27ff:fe43:e42c/64 scope link
    valid_lft forever preferred_lft forever

inet6 fe80::a00:27ff:fe43:e42c/64 scope link
    valid_lft forever preferred_lft forever

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    valid_lft forever preferred_lft forever

inet6 fe80::a00:27ff:fe43:e42c/64 scope link
    valid_lft forever preferred_lft forever

inet6 fe80::a00:27ff:fe40:e42c/64 scope link
    valid_lft forever

inet6 fe80::a00:27ff:fe40:e42c/64 scope link
    valid_lft forever

inet6
```

Select your location The selected location will be used to set your time zone and also for example to help select the system locale. Normally this should be the country where you live. This is a shortlist of locations based on the language you selected. Choose "other" if your location is not listed. Country, territory or area: Hong Kong India Ireland Israel **New Zealand** Nigeria **Philippines** Singapore South Africa United Kingdom **United States** Zambia Zimbabwe other Screenshot Go Back Continue

debian 9

Select your location

The selected location will be used to set your time zone and also for example to help select the system locale. Normally this should be the country where you live. This is a shortlist of locations based on the language you selected. Choose "other" if your location is not Country, territory or area: Hong Kong India Ireland Israel ĸ New Zealand Nigeria **Philippines** Singapore South Africa **United Kingdom United States** Zambia Zimbabwe other Screenshot Go Back Continue

Aanvullende commando's en configuratie

```
Debian GNU/Linux 9 risksec tty1
risksec login:
```

Aanpassen Hosts-file

root@risksec: nano /etc/hosts
Voeg deze regel onderaan toe:

127.0.0.1 mijnsite.local

```
GNU nano 2.7.4 File: /etc/hosts

127.0.0.1 localhost
127.0.1.1 risksec

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

127.0.0.1 mijnsite.local
```

Afsluiten via Ctrl+X (kies voor opslaan).

Testen of het werkt:

```
root@risksec:~# ping mijnsite.local
PING mijnsite.local (127.0.0.1) 56(84) bytes of data.
64 bytes from localhost (127.0.0.1): icmp_seq=1 ttl=64 time=0.058 ms
64 bytes from localhost (127.0.0.1): icmp_seq=2 ttl=64 time=0.060 ms
64 bytes from localhost (127.0.0.1): icmp_seq=3 ttl=64 time=0.069 ms
64 bytes from localhost (127.0.0.1): icmp_seq=4 ttl=64 time=0.114 ms
^C
--- mijnsite.local ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3069ms
rtt min/avg/max/mdev = 0.058/0.075/0.114/0.023 ms
root@risksec:~#
```

Nieuwe website configuratie aanmaken

```
root@risksec: cd /etc/apache2/sites-available
root@risksec: cp 000-default.conf mijnsite.conf
root@risksec: nano mijnsite.conf
```

We gaan nu de nieuwe site aanzetten en zorgen dat het default verkeer niet meer naar de standard website loopt. Hiervoor gebruiken we het commando 'a2ensite' (Apache 2 Enable Site) met als parameter onze nieuwe configuratie. Daarna zetten we de standaard configuratie uit (deze vangt namelijk <u>alles</u> af, dus ook onze nieuwe configuratie). Voor het uitzetten van een site gebruik je 'a2dissite' (Apache 2 Disable Site) met als parameter '000-default.conf'.

```
root@risksec: a2ensite mijnsite.conf
root@risksec: a2dissite 000-default.conf
```

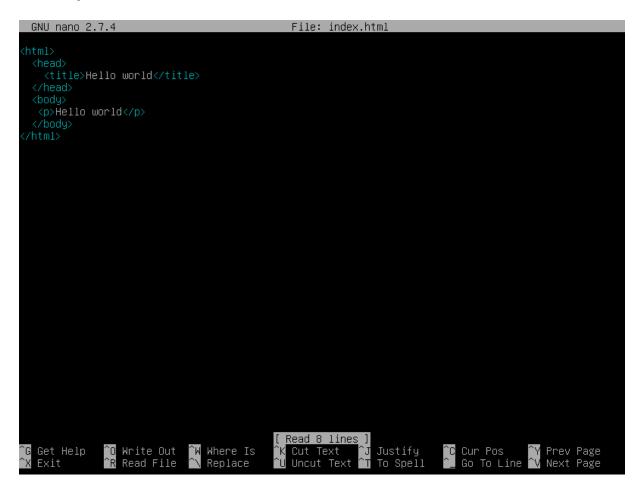
```
root@risksec: service apache2 restart
```

Nu maken we een directory waar we de website op gaan hosten. We zorgen er voor dat de Linux-user 'www-data' deze map + onderliggende mappen mag lezen. Deze gebruiker 'www-data' wordt namelijk gebruikt door het Apache2 proces om de bestanden te benaderen.

```
root@risksec: mkdir /home/martin/website
root@risksec: chown martin:www-data /home/martin/website
root@risksec: chmod g+rwX /home/martin/website
```

Login als eindgebruiker: (ALT+CTRL+F2 om een nieuwe TTY te openen zodat je parallel ingelogd kan zijn op een headless-machine). We maken even een simpele pagina 'index.html'. om onze configuratie te testen.

martin@risksec: cd ~/website
martin@risksec: nano index.html



Gebruik CTRL+X om te verlaten en op te slaan.

martin@risksec: mkdir ~/temp
martin@risksec: cd ~/temp

martin@risksec: wget mijnsite.local

We gaan nu PHP installeren en koppelen zodat Apache2 snapt dat bestanden die eindigen op . PHP daadwerkelijk door de PHP-parser behandeld worden.

Bijlage – verkeer doorsturen van je Laptop (Browser, PHP Storm) naar je nieuwe Virtuele Machine

