Debian - Basic OS Installation from ISO (Debian/Win2019)

Image

Download an .ISO for the installation of Debian Linux.

The minimal .ISO (net install) will do, as long as the machine has network connectivity.

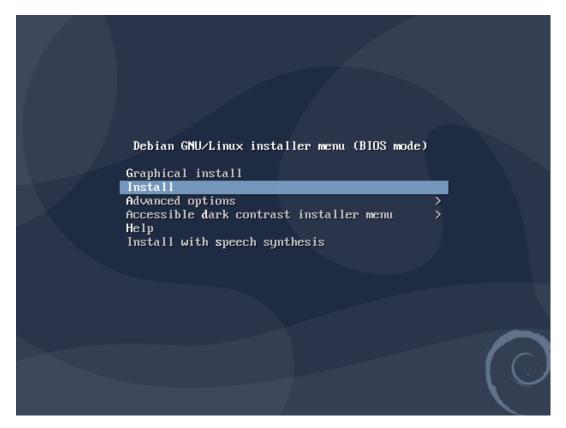
The current image can be found on this page: https://cdimage.debian.org/debian-cd/current/amd64/iso-cd/

The **netinst.iso** image is the correct one - scroll down to the bottom to select the appropriate version:

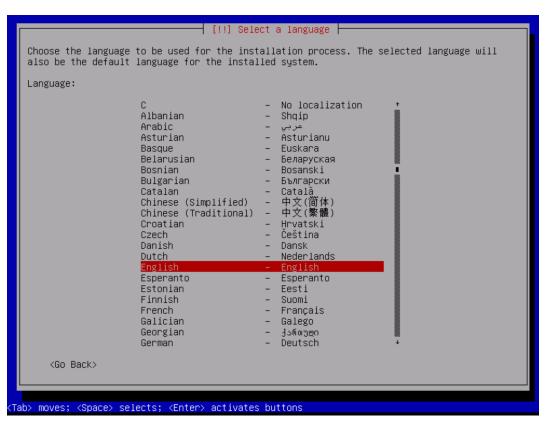


Installation

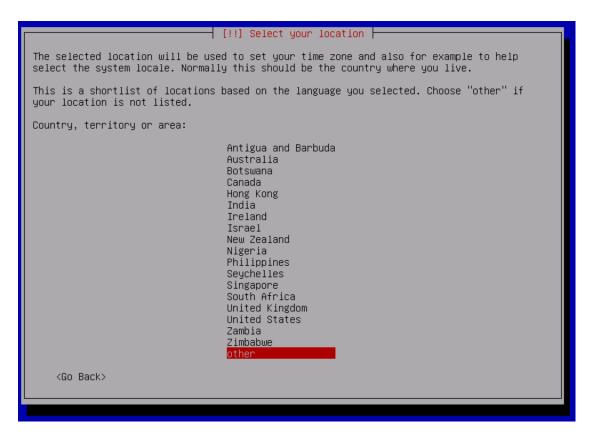
Select the text installer:



Select **English** as the language:



Select other as the location:



Then select the appropriate location using the next two menus - here for Europe / Germany:

[!!] Select your location

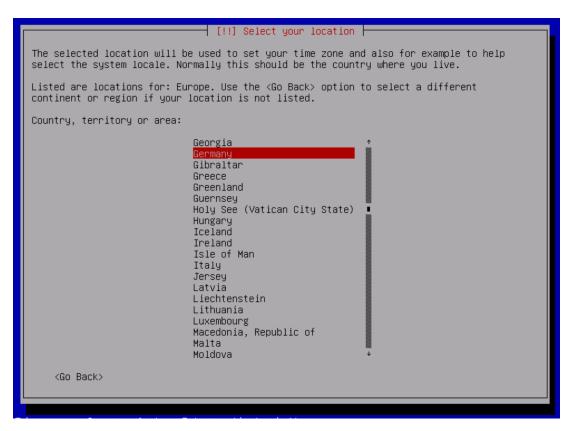
The selected location will be used to set your time zone and also for example to help select the system locale. Normally this should be the country where you live.

Select the continent or region to which your location belongs.

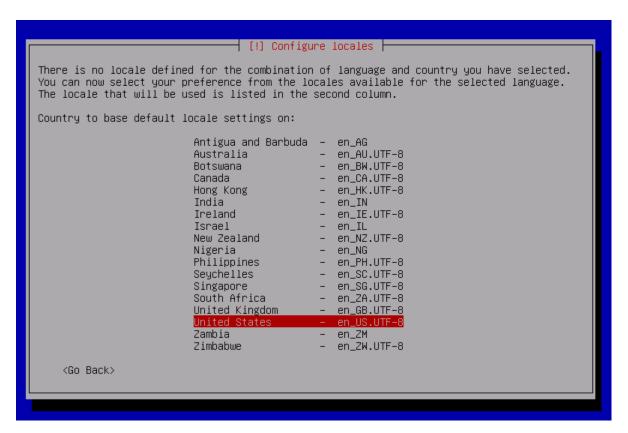
Continent or region:

Africa
Antarctica
Asia
Atlantic Ocean
Caribbean
Central America
Europe
Indian Ocean
North America
Oceania
South America
other

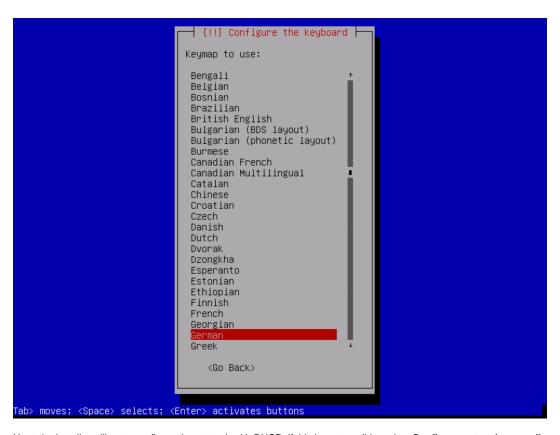
<Go Back>



Then select en_US.UTF-8 for the locale settings:



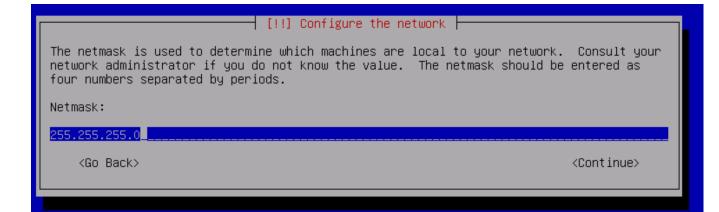
Select the appropriate keyboard layout (in this example **German**):

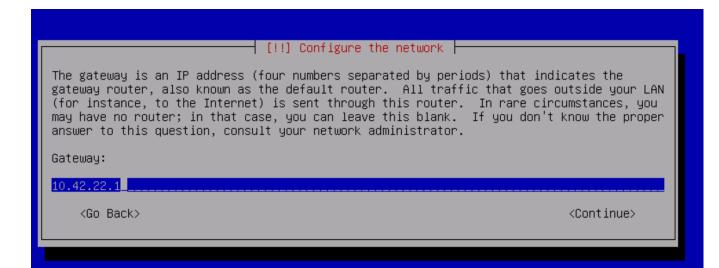


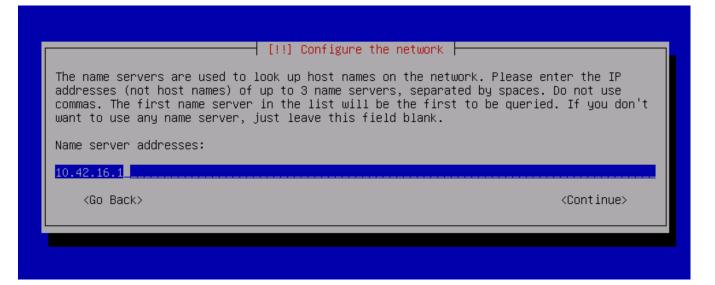
Next, the installer will try to configure the network with DHCP. If this is not possible, select Configure network manually:

From here you can choose to retry DHCP network autoconfiguration (which may succeed if your DHCP server takes a long time to respond) or to configure the network manually. Some DHCP servers require a DHCP hostname to be sent by the client, so you can also choose to retry DHCP network autoconfiguration with a hostname that you provide. Network configuration method: Retry network autoconfiguration Retry network autoconfiguration with a DHCP hostname Configure network manually Do not configure the network at this time (Go Back)

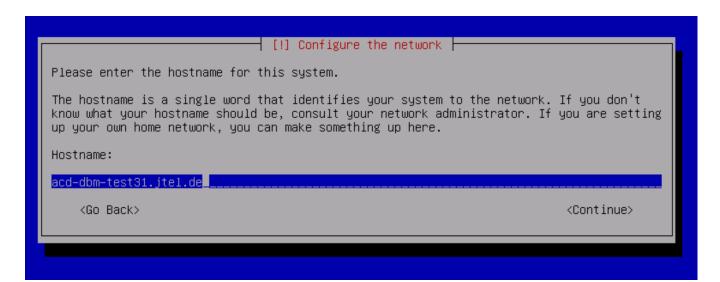
Then enter the appropriate details:







Enter the fully qualified host name:



Next, enter and repeat the root password.

[!!] 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 as you type it.

Root password:

[] Show Password in Clear

<Go Back> <Continue>

[!!] Set up users and passwords

Please enter the same root password again to verify that you have typed it correctly.

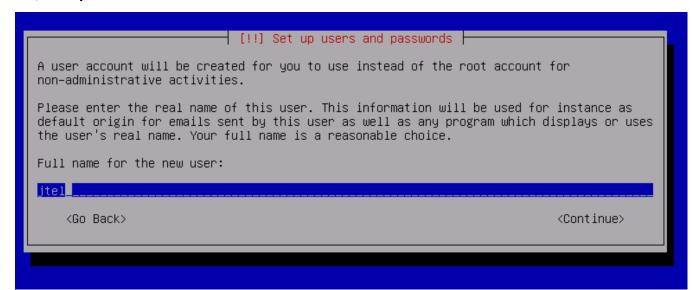
Re-enter password to verify:

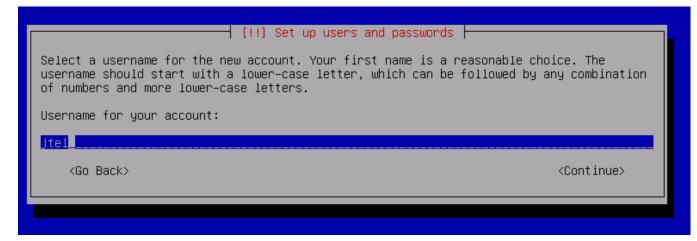
[] Show Password in Clear

<Go Back>

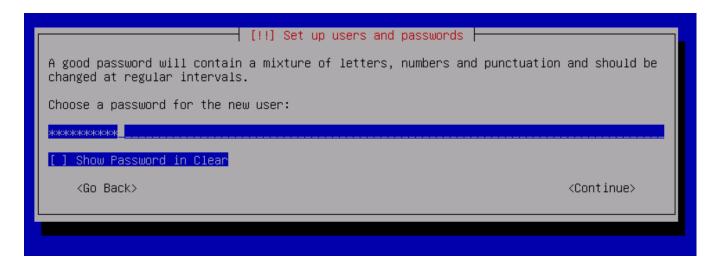
<Continue>

Next, create a **itel** user:





Enter the password for the jtel user:





For partitioning, choose Guided - use the entire disk and set up LVM:

```
[!!] Partition disks

The installer can guide you through partitioning a disk (using different standard schemes) or, if you prefer, you can do it manually. With guided partitioning you will still have a chance later to review and customise the results.

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

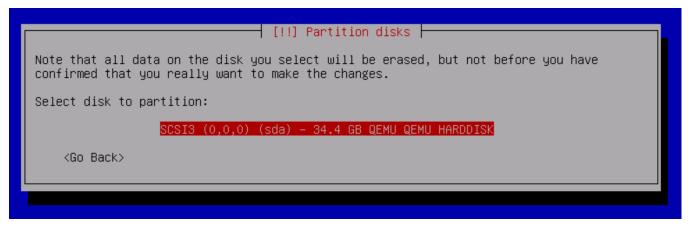
Guided – use entire disk and set up LVM

Guided – use entire disk and set up encrypted LVM

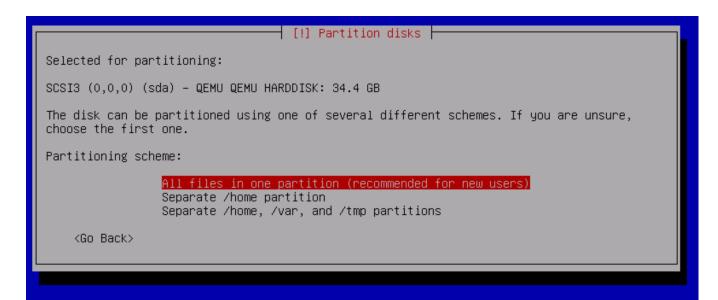
Manual

<Go Back>
```

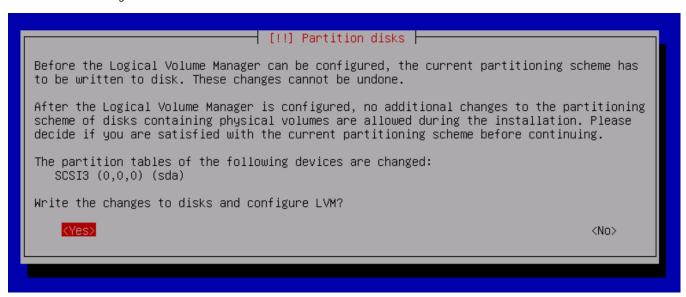
Next select the disk to partition (do not partition the data partition, if you are installing the load balancer):



For the partition layout, select "All files in one partition (recommended for new users)". It will be easy enough to move things to extra disks later if the system needs it, and for most jtel systems this will not be necessary.



Choose to write the changes.



Select to use the whole volume group.

[!] Partition disks 🗕

You may use the whole volume group for guided partitioning, or part of it. If you use only part of it, or if you add more disks later, then you will be able to grow logical volumes later using the LVM tools, so using a smaller part of the volume group at installation time may offer more flexibility.

The minimum size of the selected partitioning recipe is 1.9 GB (or 5%); please note that the packages you choose to install may require more space than this. The maximum available size is 33.8 GB.

Hint: "max" can be used as a shortcut to specify the maximum size, or enter a percentage (e.g. "20%") to use that percentage of the maximum size.

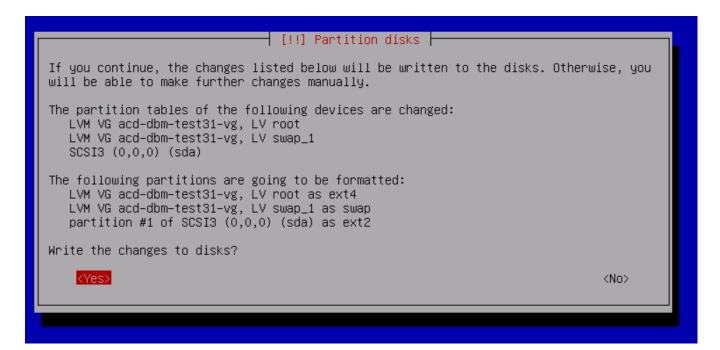
Amount of volume group to use for guided partitioning:

33.8 GB

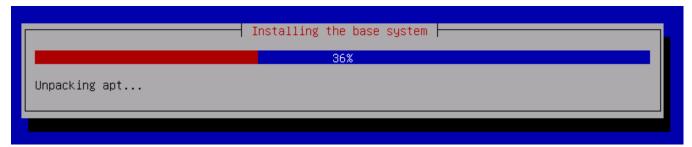
<Go Back>

<Continue>

And select to partition the disks:



The installation will now proceed:

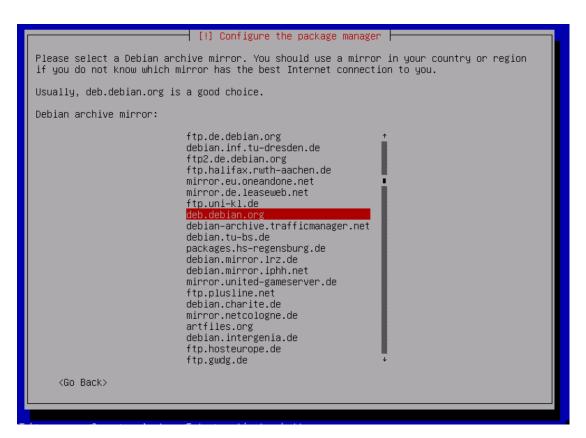


After installing a few things, it will ask if you want to scan another CD or DVD. Say ${f No}$.

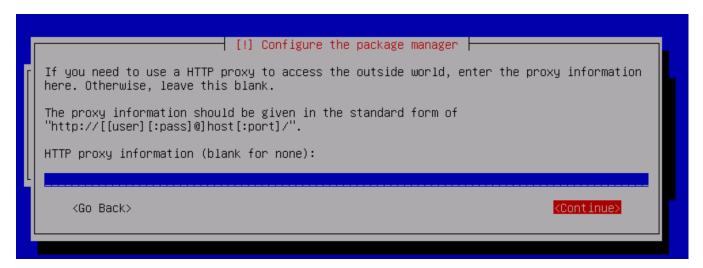


Select an appropriate country for your repo mirrors:



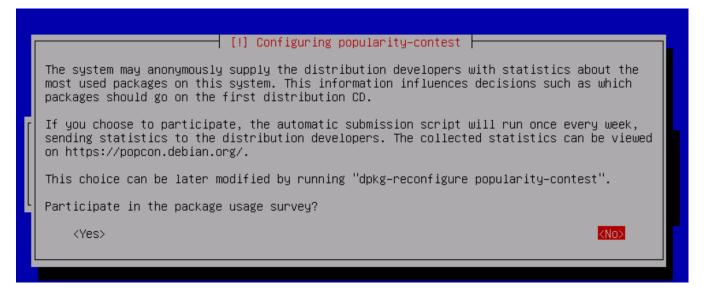


Select Continue when it asks you to configure an http proxy:

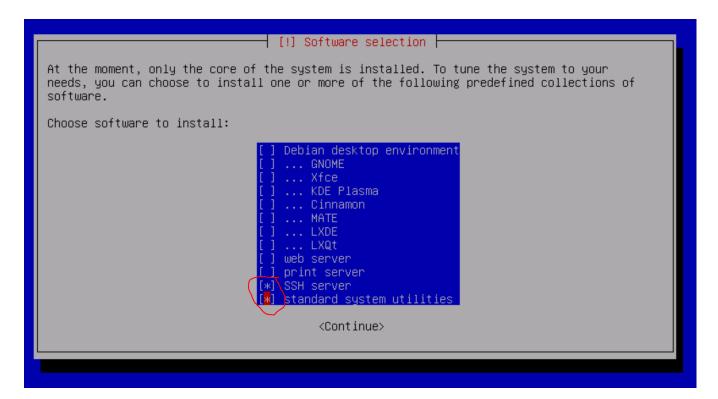


It will then upgrade the software.

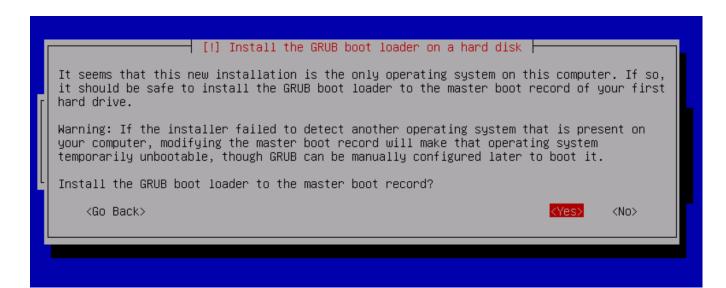
Next it will ask for anonymouse usage statistics. Select whatever you feel comfortable with.



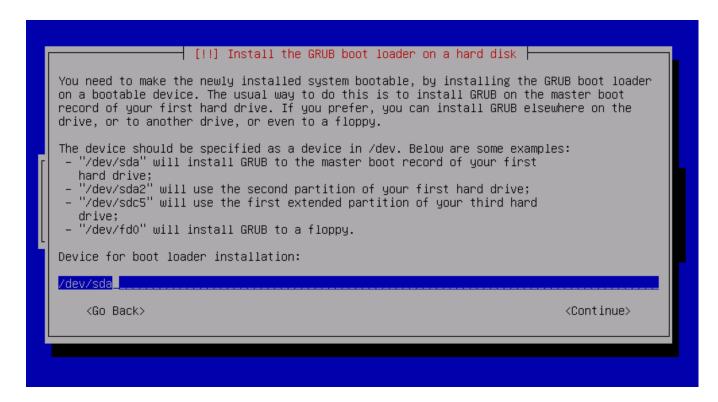
Next under software selection, it will ask what to install. Select only SSH server and standard system utilities:



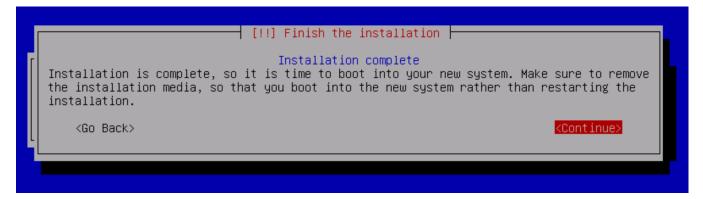
Now, it will complete some more steps. When it asks whether to install GRUB as the bootloader, say yes:



Enter /dev/sda for the location of the boot loader:



Finally, it will complete the installation. Select Continue to reboot, and you should be able to ssh into the system.



Final Steps

- Make sure you can ssh into the machine as root
 Make sure the network configuration is correct, and that you can, for example, ping www.google.de
 Provide jtel with:

 The IP Address of the machine
 The jtel password
 The root password

If jtel is performing the installation, we will take over from here.