



CLASE 03

Guía de Dual Boot con Windows y Debian

Cómo iniciar dualmente Windows y Debian

Puede tener fácilmente una configuración de inicio dual que le permita cambiar a cualquiera de los sistemas operativos al iniciar su sistema. En esta guía, aprenderá cómo realizar un arranque dual de Windows junto con Debian.

Requisitos previos

Antes de comenzar, asegúrese de tener lo siguiente:

- . Un USB o DVD de arranque de Debian, de preferencia Ventoy.
- . Una conexión a Internet rápida y estable (para actualizaciones de instalación y aplicaciones de terceros).

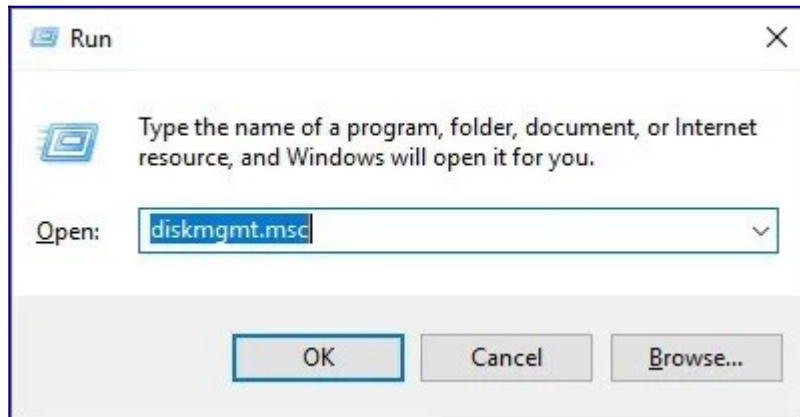


Además, vale la pena prestar atención a cómo se inicia su sistema (UEFI o Legacy) y asegurarse de que ambos sistemas operativos se inicien con el mismo modo de inicio.

Paso 1: crea una partición libre en tu disco duro

Para comenzar, debe crear una partición libre en su disco duro. Esta es la partición donde se instalará Debian durante el proceso de instalación. Para lograr esto, invocará la utilidad de administración de discos como se muestra:

Presione Windows Key + R para iniciar el diálogo Ejecutar. Luego, escriba diskmgmt.msc y presione ENTER



Esto inicia la ventana de administración de discos que muestra todas las unidades existentes en su sistema Windows.

Disk Management

File
Action
View
Help

Volume	Layout	Type	File System	Status	Capacity	Free Spa...	% Free
(Disk 0 partition 2)	Simple	Basic		Healthy (E...	100 MB	100 MB	100 %
New Volume (D:)	Simple	Basic	NTFS	Healthy (P...	683.70 GB	670.28 GB	98 %
Recovery	Simple	Basic	NTFS	Healthy (...)	499 MB	84 MB	17 %
Windows 10 (C:)	Simple	Basic	NTFS	Healthy (B...	247.21 GB	173.43 GB	70 %

Disk 0
Basic
931.50 GB
Online

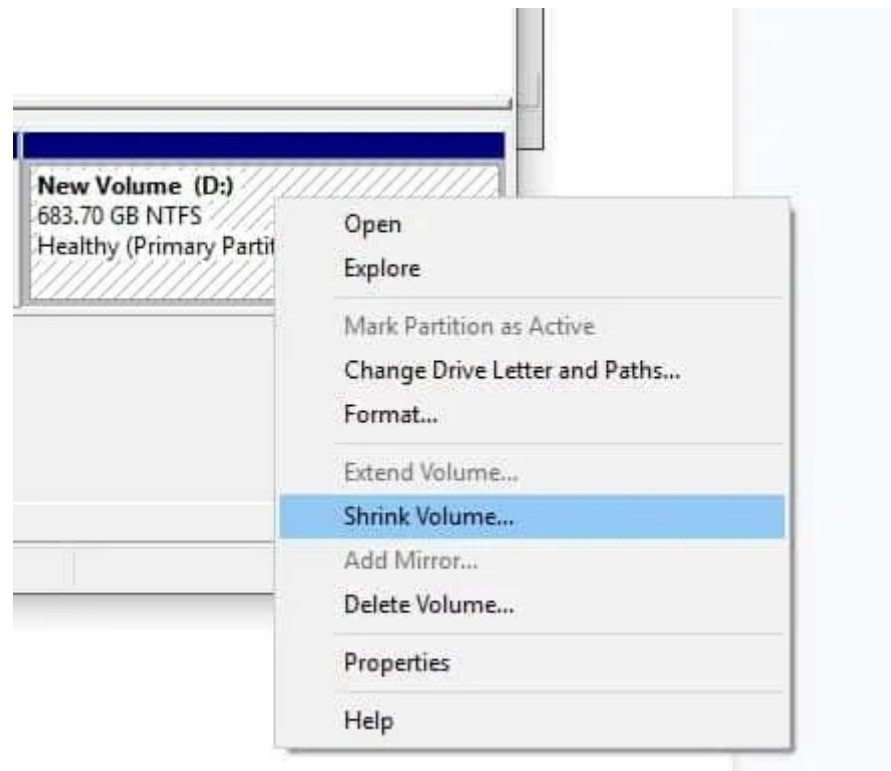
Recovery 499 MB NTFS Healthy (OEM Pai	100 MB Healthy (EFI	Windows 10 (C:) 247.21 GB NTFS Healthy (Boot, Page File, Crash Dump,	New Volume (D:) 683.70 GB NTFS Healthy (Primary Partition)
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Unallocated

Primary partition

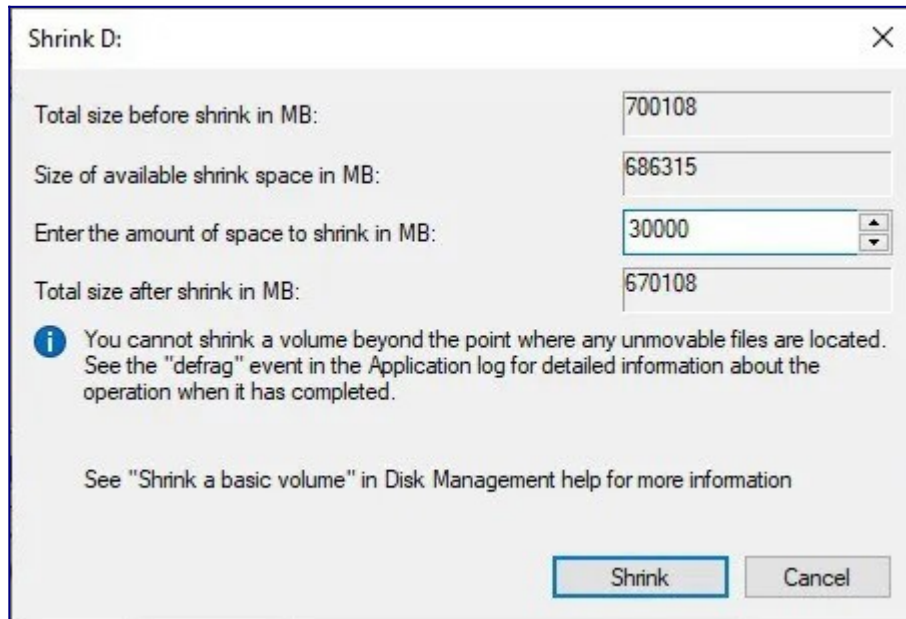
A continuación, debe crear un espacio libre para la instalación de Debian. Para hacer esto, debe reducir una partición de uno de los volúmenes y crear una nueva partición sin asignar. En este caso, crearé una partición de 30 GB del Volumen D.

Para reducir un volumen, haga clic derecho sobre él y seleccione la opción ' reducir '



En el cuadro de diálogo emergente, defina el tamaño que desea reducir su espacio. Recuerde, este será el espacio en disco en el que se instalará Debian 10. En mi caso, seleccioné 30000MB (Aproximadamente 30 GB). Una vez hecho esto, haga clic en

' Reducir '.



The screenshot shows a Windows Disk Management dialog box titled "Shrink D:". It contains the following fields and information:

- Total size before shrink in MB: 700108
- Size of available shrink space in MB: 686315
- Enter the amount of space to shrink in MB: 30000 (with up and down arrows)
- Total size after shrink in MB: 670108
- An information icon (i) followed by the text: "You cannot shrink a volume beyond the point where any unmovable files are located. See the 'defrag' event in the Application log for detailed information about the operation when it has completed."
- A link: "See 'Shrink a basic volume' in Disk Management help for more information"
- Two buttons at the bottom: "Shrink" and "Cancel".

Después de que se complete la operación de reducción, debería tener una partición sin asignar como se muestra:

Disk Management

File Action View Help

Volume	Layout	Type	File System	Status	Capacity	Free Spa...	% Free
(Disk 0 partition 2)	Simple	Basic		Healthy (E...	100 MB	100 MB	100 %
New Volume (D:)	Simple	Basic	NTFS	Healthy (P...	654.40 GB	640.98 GB	98 %
Recovery	Simple	Basic	NTFS	Healthy (...)	499 MB	84 MB	17 %
Windows 10 (C:)	Simple	Basic	NTFS	Healthy (B...	247.21 GB	173.43 GB	70 %

Disk 0
Basic
931.50 GB
Online

Recovery		Windows 10 (C:)	New Volume (D:)	
499 MB NTFS Healthy (OEI	100 MB Healthy	247.21 GB NTFS Healthy (Boot, Page File, Cra	654.40 GB NTFS Healthy (Primary Partition)	29.30 GB Unallocated

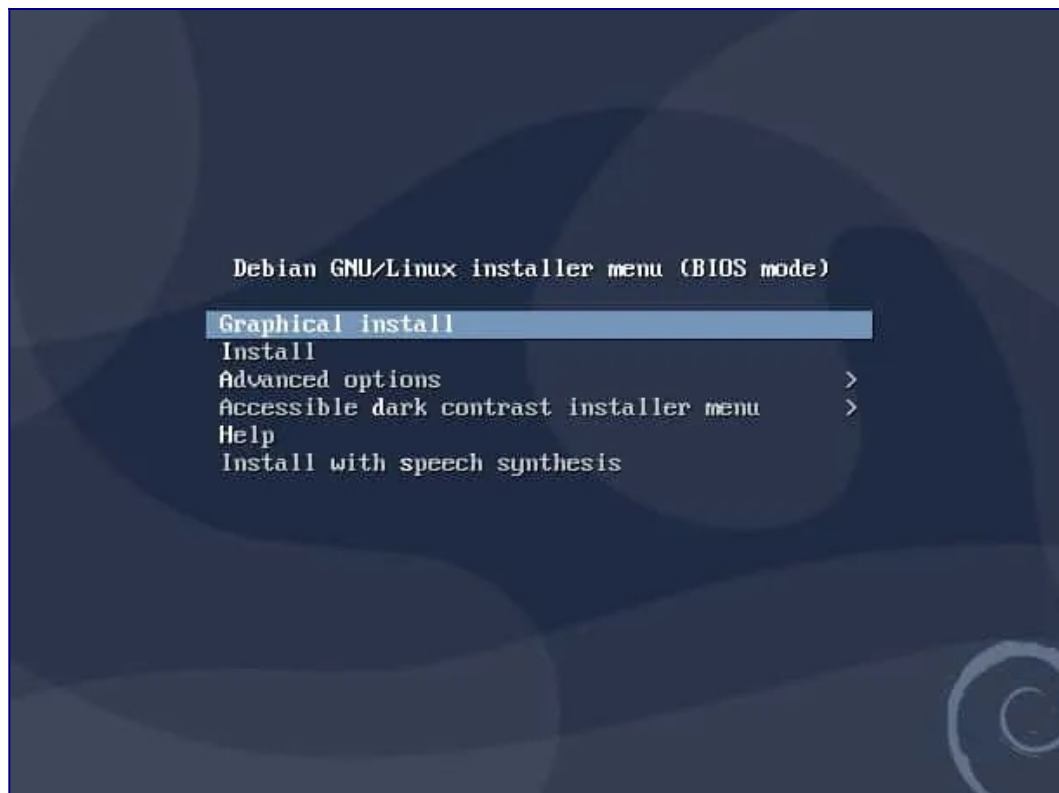
■ Unallocated ■ Primary partition

¡Perfecto! Ahora estamos listos para comenzar el proceso de instalación.

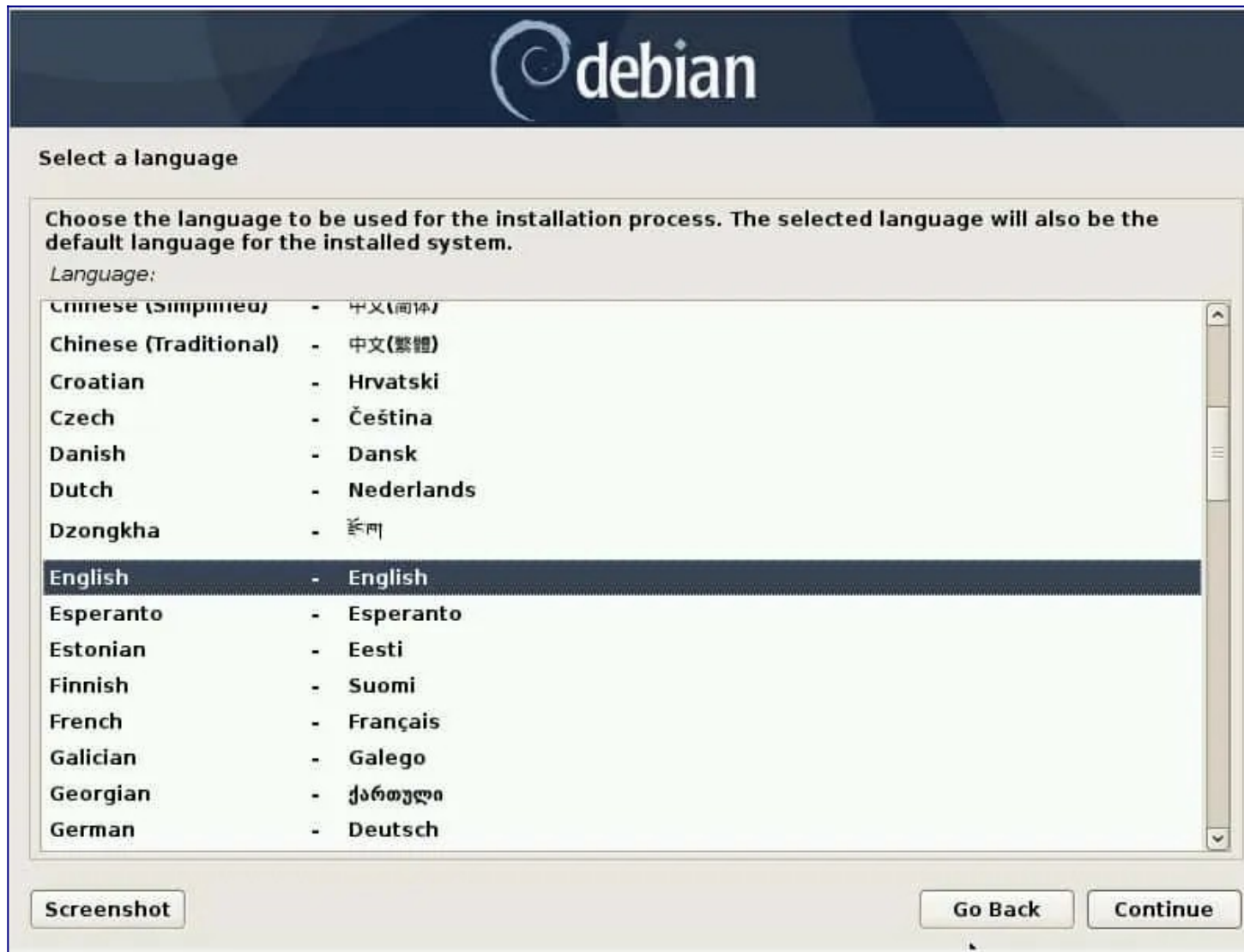
Paso 2: Comience la instalación de Debian

Con la partición libre ya creada, conecte su unidad USB de arranque o inserte el medio de instalación de DVD en su PC y reinicie su sistema. Asegúrese de realizar cambios en el orden de inicio en la configuración del BIOS presionando las teclas de función (generalmente, F9, F10 o F12, según el proveedor). Esto es crucial para que la PC se inicie en su medio de instalación. Guarda la configuración del BIOS y reinicia.

Se mostrará un nuevo menú de grub como se muestra a continuación: Haga clic en 'Instalación gráfica'



En el siguiente paso, seleccione su idioma preferido y haga clic en 'Continuar'



The image shows the Debian installer's language selection screen. At the top, the Debian logo is displayed. Below it, the title "Select a language" is shown. A paragraph instructs the user to choose a language for the installation process, noting that this will be the default for the installed system. A list of languages is presented in a scrollable box, with "English" currently selected and highlighted. At the bottom, there are three buttons: "Screenshot", "Go Back", and "Continue".

debian

Select a language

Choose the language to be used for the installation process. The selected language will also be the default language for the installed system.

Language:

Chinese (Simplified)	- 中文(简体)
Chinese (Traditional)	- 中文(繁體)
Croatian	- Hrvatski
Czech	- Čeština
Danish	- Dansk
Dutch	- Nederlands
Dzongkha	- ཇོང་ཁུ་
English	- English
Esperanto	- Esperanto
Estonian	- Eesti
Finnish	- Suomi
French	- Français
Galician	- Galego
Georgian	- ქართული
German	- Deutsch

Screenshot Go Back Continue

A continuación, seleccione su ubicación y haga clic en 'Continuar'. En función de esta ubicación, la hora se seleccionará automáticamente para usted. Si no puede encontrar su ubicación, desplácese hacia abajo y haga clic en 'otro', luego seleccione su ubicación.



The Debian installer window titled "Select your location" features a dark blue header with the Debian logo. Below the header, a light gray box contains instructions: "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." and "This is a shortlist of locations based on the language you selected. Choose 'other' if your location is not listed." Below this text is a text input field labeled "Country, territory or area:" with a cursor. A scrollable list of locations is shown below the input field, with "United States" highlighted. At the bottom of the window are three buttons: "Screenshot", "Go Back", and "Continue".

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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:


- Ireland
- Israel
- New Zealand
- Nigeria
- Philippines
- Seychelles
- Singapore
- South Africa
- United Kingdom
- United States**
- Zambia
- Zimbabwe
- other

Screenshot Go Back Continue

A continuación, seleccione la distribución de su teclado .



En el siguiente paso, especifique el nombre de host de su sistema y haga clic en 'Continuar'



Configure the network

Please enter the hostname for this system.

The hostname is a single word that identifies your system to the network. If you don't know what your hostname should be, consult your network administrator. If you are setting up your own home network, you can make something up here.

Hostname:

[Screenshot](#) [Go Back](#) [Continue](#)

A continuación, especifique el nombre de dominio. Si no está en un entorno de dominio, simplemente haga clic en el botón 'continuar'.



Configure the network

The domain name is the part of your Internet address to the right of your host name. It is often something that ends in .com, .net, .edu, or .org. If you are setting up a home network, you can make something up, but make sure you use the same domain name on all your computers.

Domain name:

[Screenshot](#) [Go Back](#) [Continue](#)

En el siguiente paso, especifique la contraseña de root como se muestra y haga clic en 'continuar'.



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

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

Re-enter password to verify:

☐ Show Password in Clear

Screenshot

Go Back

Continue

En el siguiente paso, especifique el nombre completo del usuario de la cuenta y haga clic en 'continuar'



The image shows a window from the Debian installer. At the top is a dark blue header with the Debian logo and the word "debian" in white. Below the header, the title "Set up users and passwords" is displayed with a mouse cursor icon to its left. The main content area contains the following text: "A user account will be created for you to use instead of the root account for non-administrative activities." followed by "Please enter the real name of this user. This information will be used for instance as default origin for emails sent by this user as well as any program which displays or uses the user's real name. Your full name is a reasonable choice." and then "Full name for the new user:". Below this text is a large text input field containing the text "james kiarie". At the bottom of the window, there are three buttons: "Screenshot" on the left, and "Go Back" and "Continue" on the right.

Luego configure el nombre de la cuenta especificando el nombre de usuario asociado con la cuenta



Set up users and passwords

Select a username for the new account. Your first name is a reasonable choice. The username should start with a lower-case letter, which can be followed by any combination of numbers and more lower-case letters.

Username for your account:

Screenshot

Go Back

Continue

A continuación, especifique la contraseña del nombre de usuario como se muestra y haga clic en 'continuar'



Set up users and passwords

A good password will contain a mixture of letters, numbers and punctuation and should be changed at regular intervals.

Choose a password for the new user:

☐ Show Password in Clear

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

Re-enter password to verify:

☐ Show Password in Clear

[Screenshot](#) [Go Back](#) [Continue](#)

A continuación, especifica tu zona horaria



The image shows a window from the Debian installer. At the top is a dark blue header with the Debian logo and the word "debian" in white. Below the header, the title "Configure the clock" is displayed. A text box contains instructions: "If the desired time zone is not listed, then please go back to the step 'Choose language' and select a country that uses the desired time zone (the country where you live or are located)." followed by "Select your time zone:". Below this is a list of time zones: Eastern, Central, Mountain, Pacific, Alaska, Hawaii, Arizona, East Indiana, and Samoa. At the bottom of the window are three buttons: "Screenshot", "Go Back", and "Continue".

debian

Configure the clock

If the desired time zone is not listed, then please go back to the step "Choose language" and select a country that uses the desired time zone (the country where you live or are located).
Select your time zone:

- Eastern
- Central
- Mountain
- Pacific
- Alaska
- Hawaii
- Arizona
- East Indiana
- Samoa

Screenshot Go Back Continue

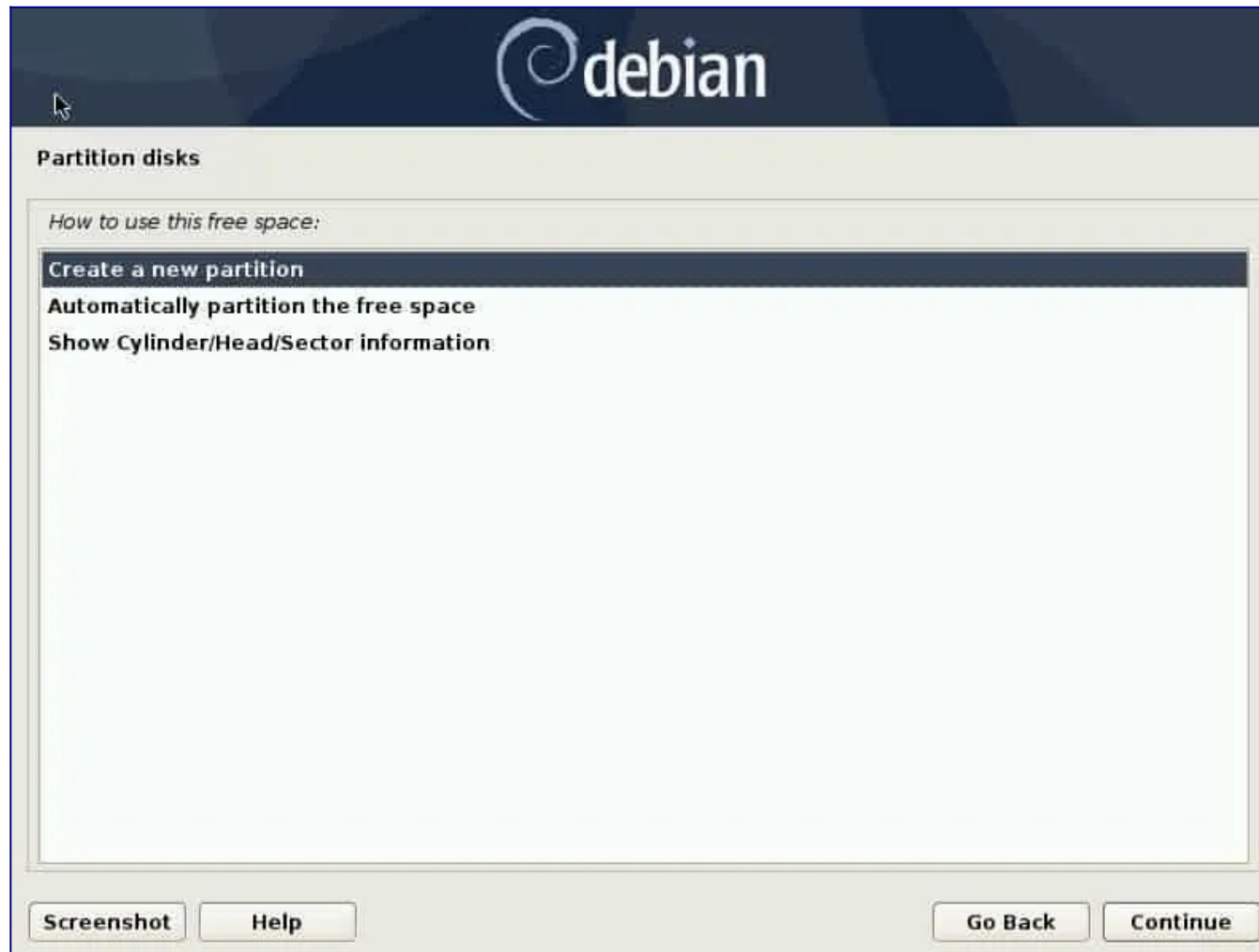
En este punto, debe crear particiones para su instalación de Debian. Si es un usuario sin experiencia, haga clic en 'Usar el mayor espacio libre continuo' y haga clic en 'continuar'.



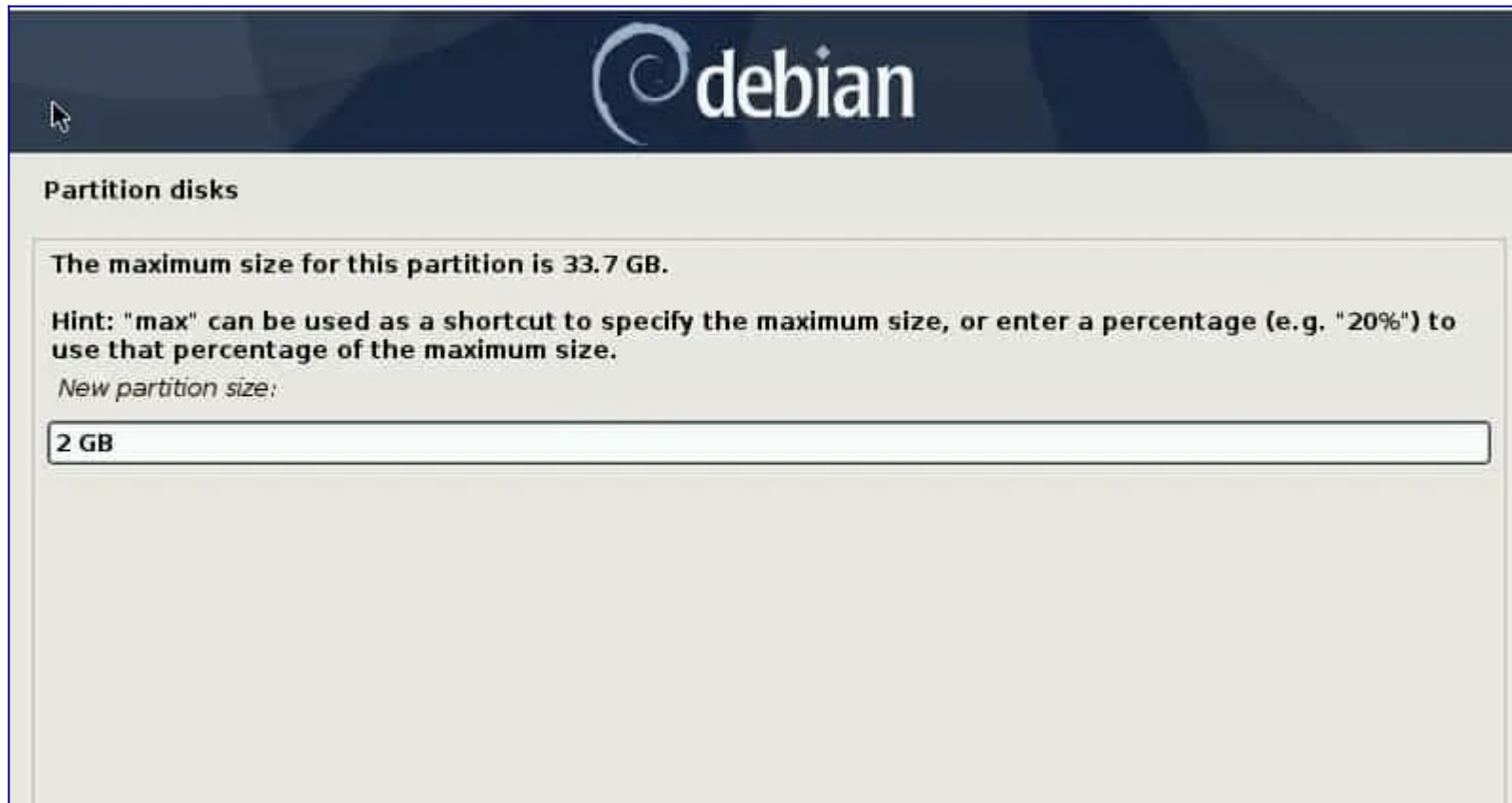
Sin embargo, si tiene más conocimientos sobre la creación de particiones, seleccione la opción 'Manual ' y haga clic en 'continuar'



A continuación, seleccione la partición etiquetada como 'ESPACIO LIBRE' y haga clic en 'continuar'. A continuación, haga clic en 'Crear una nueva partición'.



En la siguiente ventana, primero, defina el tamaño del espacio de intercambio. En mi caso, especifiqué 2 GB. Haga clic en Continuar.



The image shows a screenshot of the 'Partition disks' window in the Debian installer. The window has a dark blue header with the Debian logo and name. Below the header, the title 'Partition disks' is displayed. The main content area contains the following text: 'The maximum size for this partition is 33.7 GB.' followed by a hint: '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.' Below this, the label 'New partition size:' is followed by a text input field containing '2 GB'.

debian

Partition disks

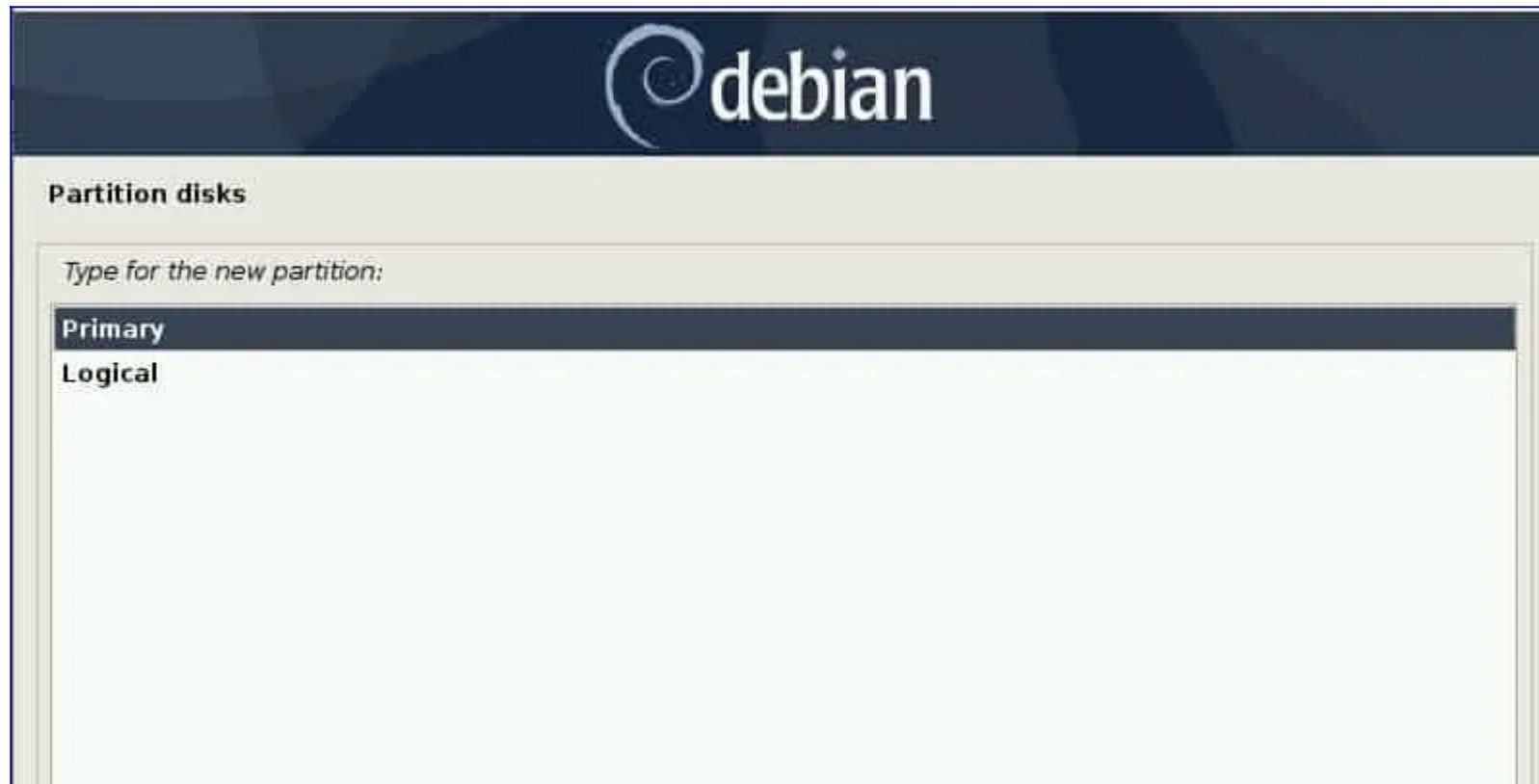
The maximum size for this partition is 33.7 GB.

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.

New partition size:

2 GB

A continuación, haga clic en 'Principal' en la siguiente pantalla y haga clic en 'continuar'



Seleccione la partición para comenzar desde el principio y haga clic en continuar.



Partition disks

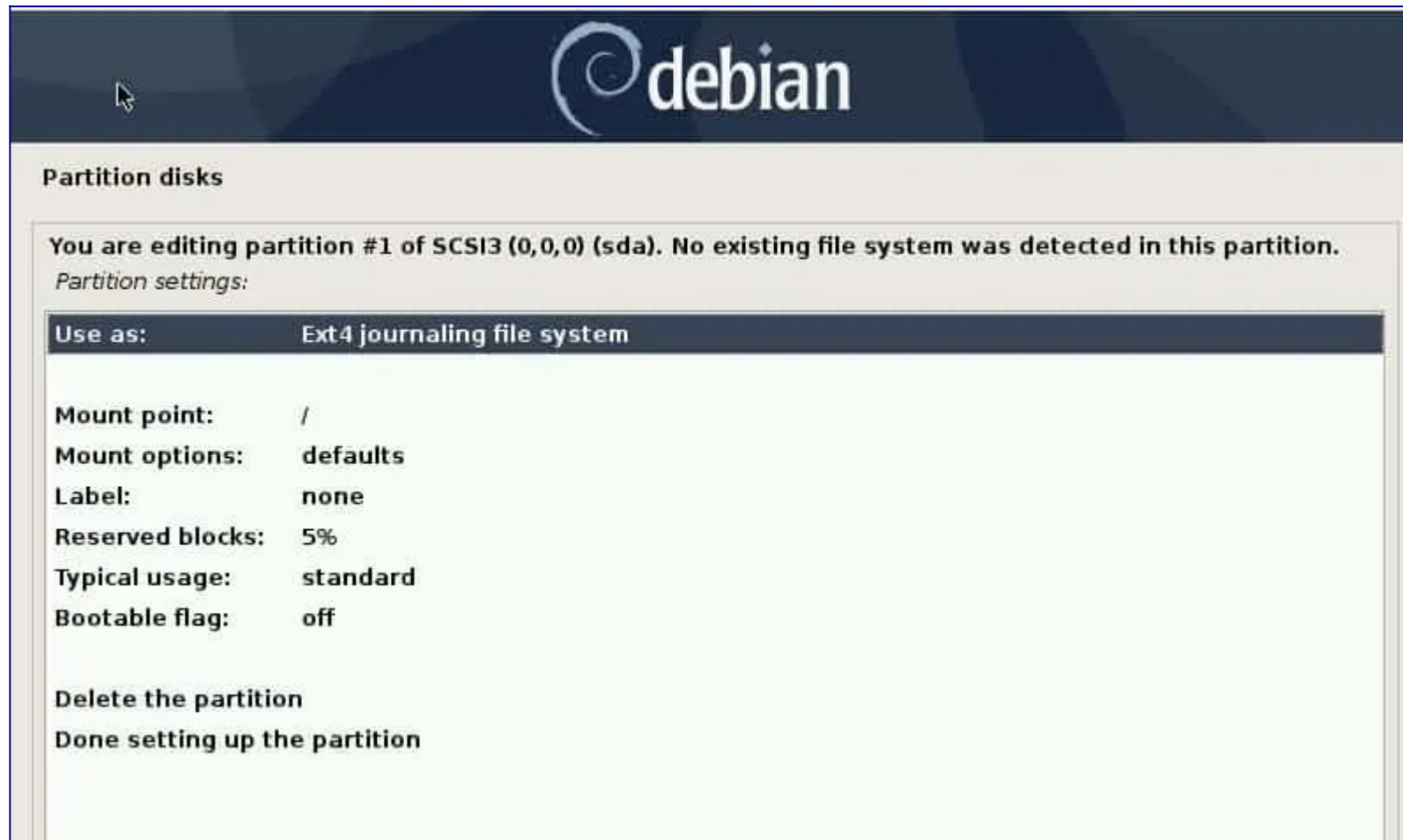
Please choose whether you want the new partition to be created at the beginning or at the end of the available space.

Location for the new partition:

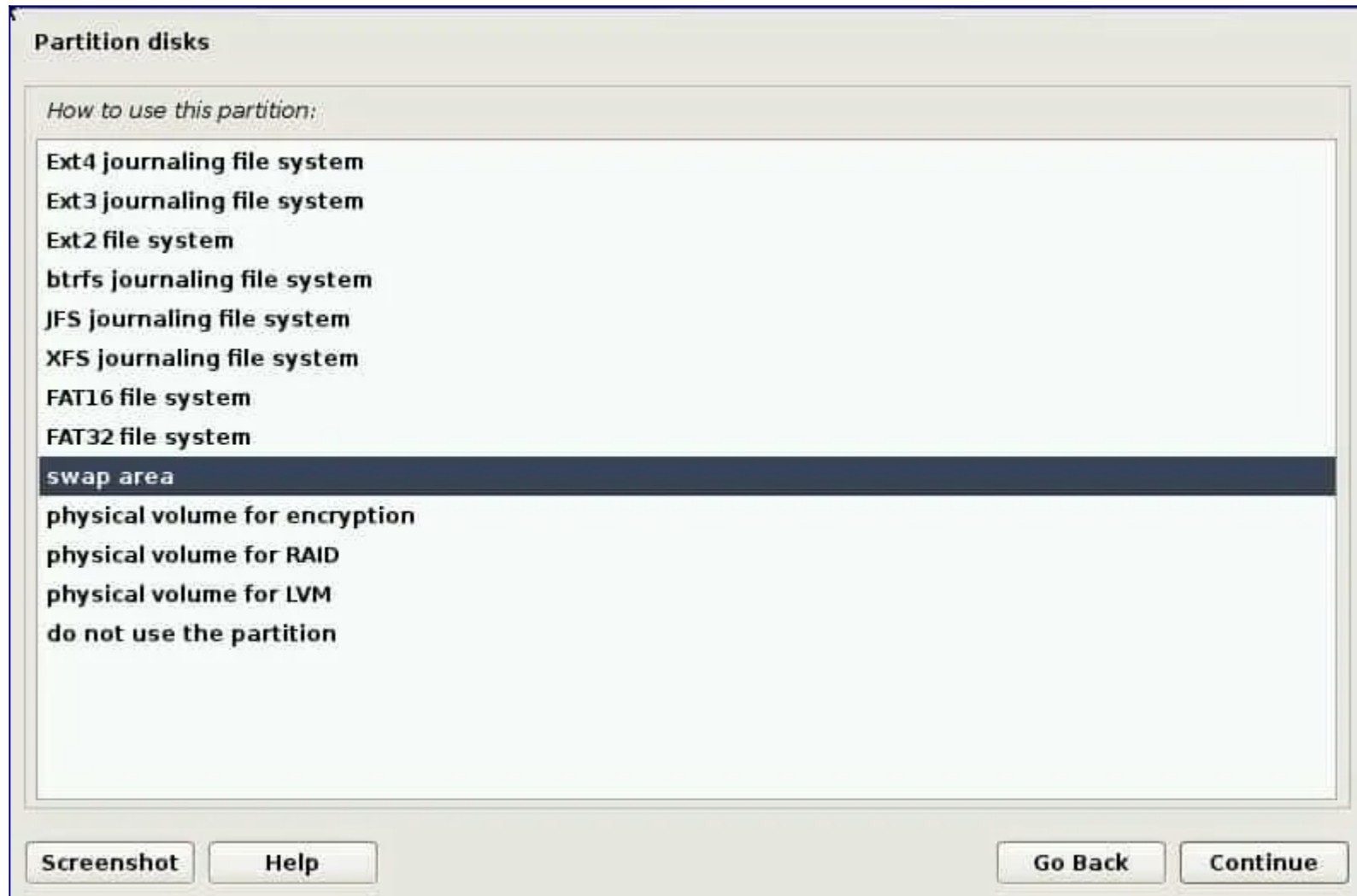
Beginning

End

A continuación, haga clic en el sistema de archivos de diario Ext 4 y haga clic en 'continuar'



En la siguiente ventana, seleccione intercambiar y haga clic en continuar



A continuación, haga clic en terminar de configurar la partición y haga clic en continuar.



Partition disks

You are editing partition #1 of SCSI3 (0,0,0) (sda). No existing file system was detected in this partition.

Partition settings:

Use as: swap area

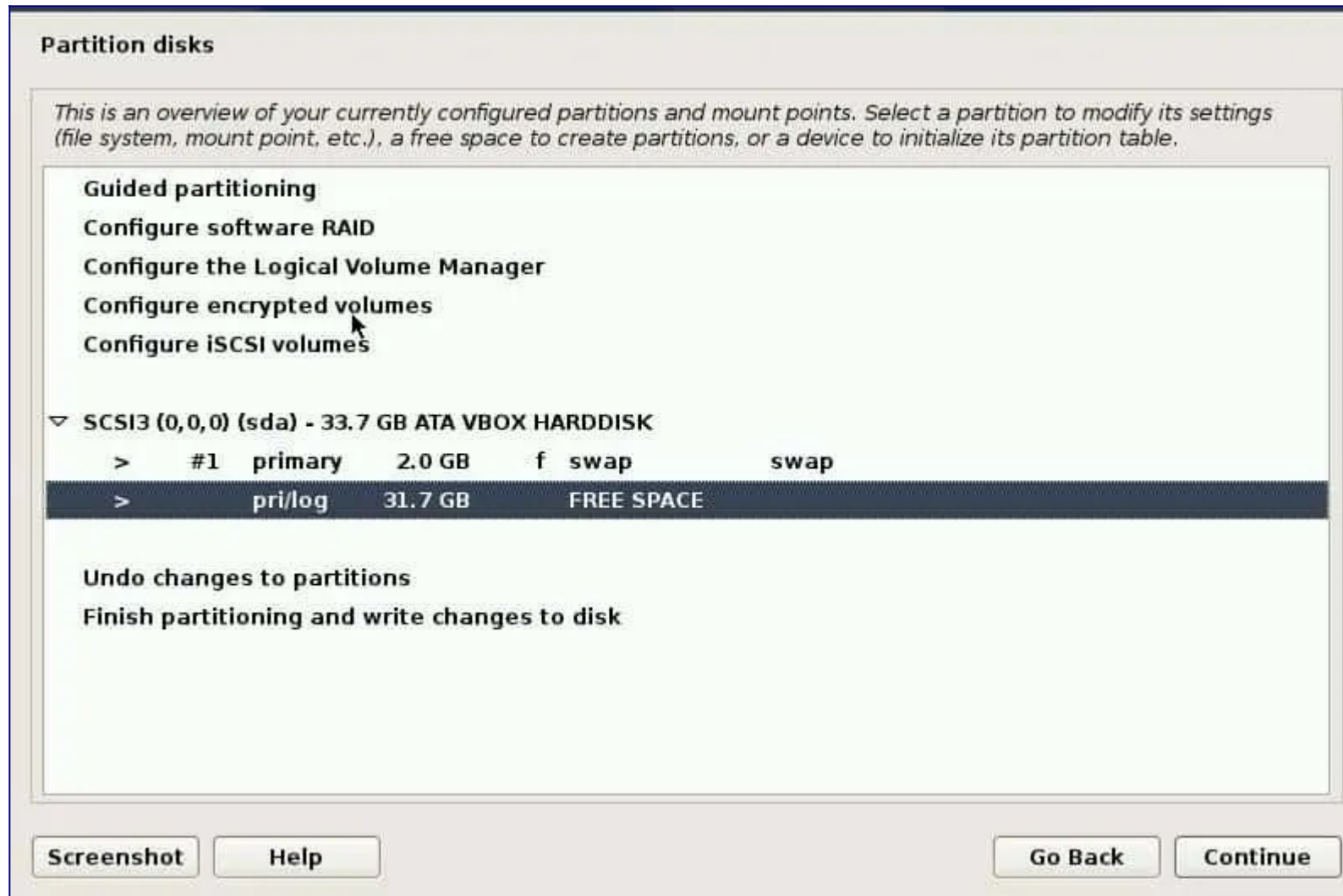
Bootable flag: off

Delete the partition

Done setting up the partition

Vuelva a la página de discos de partición, haga clic en ESPACIO LIBRE y haga clic en continuar





Para facilitarle la vida, seleccione Particionar automáticamente el espacio libre y haga clic en continuar.



Partition disks

How to use this free space:

Create a new partition

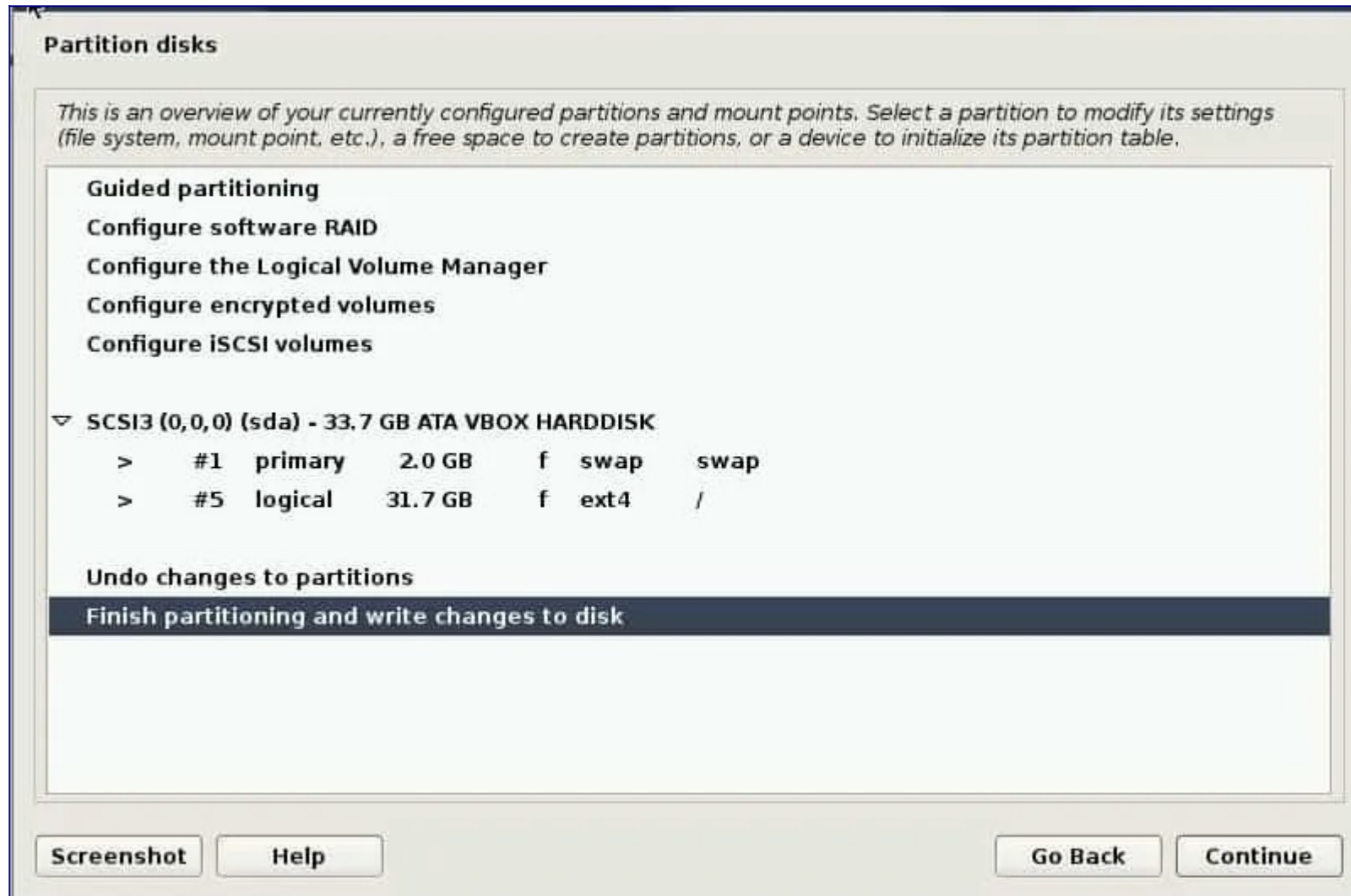
Automatically partition the free space

Show Cylinder/Head/Sector information

A continuación, haga clic en Todos los archivos en una partición (recomendado para nuevos usuarios)



Finalmente, haga clic en Finalizar partición y escriba los cambios en el disco y haga clic en continuar.



Confirme que desea escribir los cambios en el disco y haga clic en 'Sí'



A partir de entonces, el instalador comenzará a instalar todos los paquetes de software necesarios.

Cuando se le pregunte si desea escanear otro CD, seleccione No y haga clic en continuar



Configure the package manager

Your installation CD or DVD has been scanned; its label is:

Debian GNU/Linux 10.1.0 _Buster_ - Official amd64 NETINST 20190908-01:07

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**

☐ **Yes**

A continuación, seleccione el espejo del archivo de Debian más cercano a usted y haga clic en 'Continuar'



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):

A continuación, seleccione la réplica de Debian que prefiera y haga clic en 'Continuar'.

Si planea usar un servidor proxy, ingrese sus detalles como se muestra a continuación; de lo contrario, déjelo en blanco y haga clic en 'continuar'



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):

A medida que avanza la instalación, se le preguntará si desea participar en una encuesta de uso del paquete. Puede seleccionar cualquiera de las dos opciones y hacer clic en 'continuar'. En mi caso, seleccioné 'No'



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 <https://popcon.debian.org/>.

This choice can be later modified by running "dpkg-reconfigure popularity-contest".

Participate in the package usage survey?

☒ No

☐ Yes

A continuación, seleccione los paquetes que necesita en la ventana de selección de software y haga clic en continuar.



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:

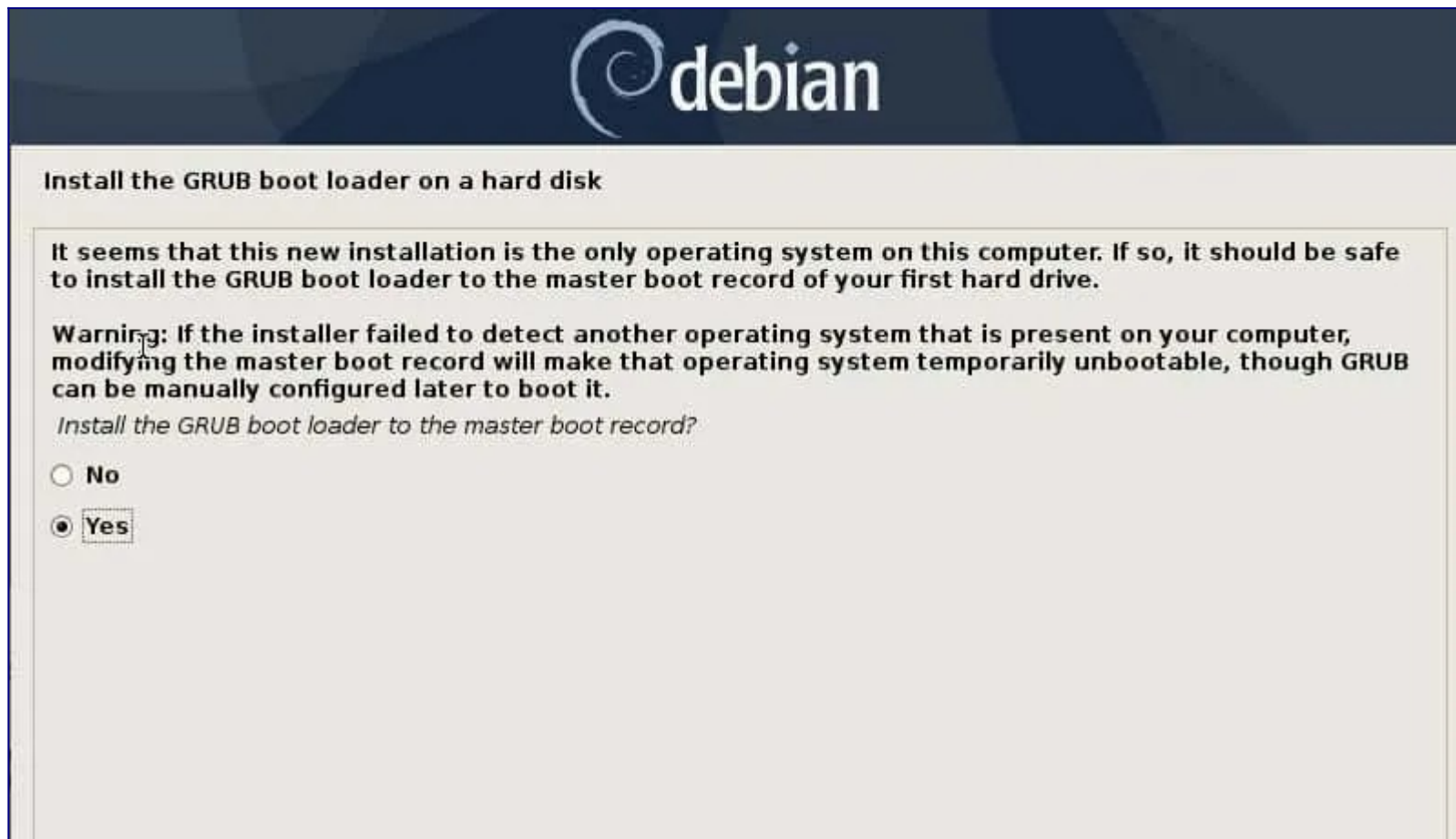
- ☒ Debian desktop environment
- ☒ ... GNOME
- ☐ ... Xfce
- ☐ ... KDE Plasma
- ☐ ... Cinnamon
- ☐ ... MATE
- ☐ ... LXDE
- ☐ ... LXQt
- ☐ web server
- ☒ print server
- ☒ SSH server
- ☒ standard system utilities

Screenshot

Continue

La instalación continuará instalando los paquetes seleccionados. En este punto, puede tomar un descanso para tomar café mientras continúa la instalación.

Se le preguntará si desea instalar el gestor de arranque grub en Master Boot Record (MBR). Haga clic en Sí y haga clic en Continuar.



A continuación, seleccione el disco duro en el que desea instalar grub y haga clic en Continuar.



The image shows a window from the Debian installer. At the top is the Debian logo. Below it, the title is "Install the GRUB boot loader on a hard disk". The main text explains that the system needs to be bootable by installing GRUB on a bootable device, typically the master boot record of the first hard drive. It offers alternatives like installing elsewhere on the drive, on another drive, or on a floppy. Below this, it asks for the "Device for boot loader installation:". There is a section titled "Enter device manually" with a text input field containing the path `/dev/sda (ata-VBOX_HARDDISK_VB6a63d2a6-3af2260e)`.

debian

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_VB6a63d2a6-3af2260e)`

Finalmente, la instalación se completará, continúe y haga clic en el botón 'Continuar'



Finish the installation



Installation complete

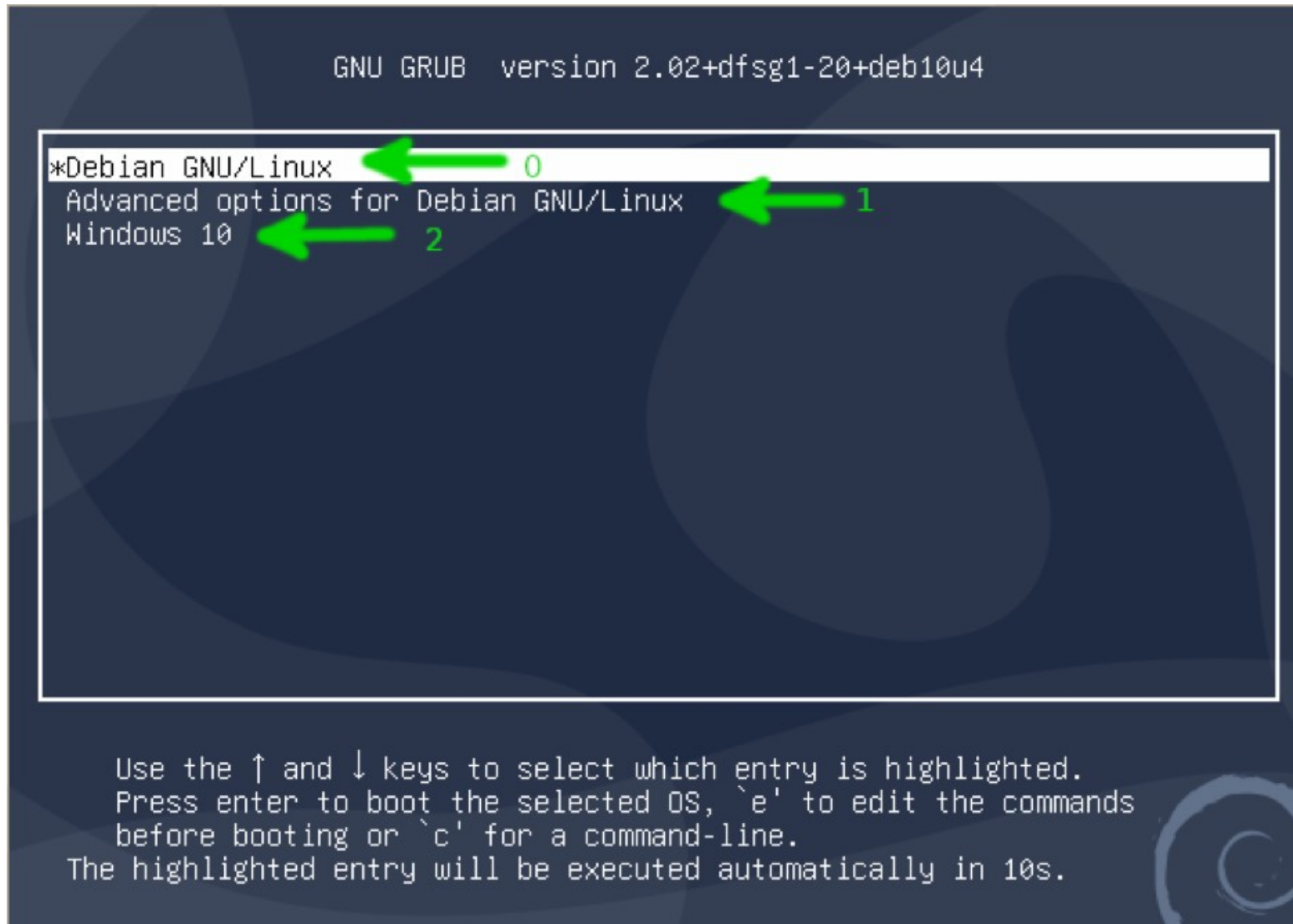
Installation is complete, so it is time to boot into your new system. Make sure to remove the installation media, so that you boot into the new system rather than restarting the installation.

Screenshot

Go Back

Continue

Ahora debería tener un menú grub con Windows y Debian en la lista. Para iniciar Debian, desplácese y haga clic en Debian. A partir de entonces, se le solicitará una pantalla de inicio de sesión. Ingresa tus datos y presiona ENTER.



Sat 19:04



james kiarie

Password:

A password input field with a dark background and a light border. It contains ten white dots representing masked characters and a white cursor at the end.

Cancel



Sign In

