Manual installation

ARTICA v4.30.00000

Artica v4.x : <u>http://articatech.net</u> | contact: <u>contact@articatech.com</u> | supp

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INTRODUCTION.

This document helps to install Artica on an already installed computer with the Debian 10.x operating system.

WHY THIS PROCEDURE?

This procedure fix these behavior

UEFI installation

Currently the Artica ISO is not compatible UEFI. This procedure allows to use the standard Debian installation which is UEFI compatible.

Cloud installation

If you purchase a server with a Debian template (eg OVH), the ISO installation did not permit to get Artica.

USB installation

Currently, you cannot translate the Artica ISO on an USB stick. This procedure allows you to translate the Debian CD into an USB stick and perform the procedure.

REQUIREMENTS

This procedure require:

- An already Debian system version 10.x installed on the computer.
- An SSH connection as Root or a direct connection with the terminal
- An access to the Internet.

Access to internet with a proxy.

If the target machine require a proxy to access to Internet, the procedure use wget to retrieve packages.

Method 1, fix definitively the proxy:

Open the /etc/wgetrc file and put proxy parameters in this way :

```
use_proxy=yes
http_proxy=10.0.1.1:8080
https_proxy=10.0.1.1:8080
```

Method 2, add the proxy in the environment variables

Type these commands

```
export http_proxy=http://10.0.1.1:8080/
export https_proxy=$http_proxy
```

Proxy Authentication

If your proxy require authentication, set proxy value in this way:

```
http://username:password@10.0.1.1:8080/
```

check if your password has special characters, such as **#**, @, ... If this is the case, escape them (for example, replace passw@rd with passw%**40**rd).

INSTALL THE DEBIAN OPERATING SYSTEM

If you plan to install the operating system yourself, we suggest to use the "Net-install" CD to install only the "base" system.

WHERE TO DOWNLOAD THE DEBIAN ISO?

- Go to https://cdimage.debian.org/debian-cd/current/amd64/iso-cd/
- Download the ISO file Debian-10.x.x-amd64-netinst.iso

\dot{Only} the first few images are available! Where are the rest?				
We don't store/serve the full set of ISO images for all architectures, to reduce the amount of space taken up on the mirrors. You can <u>use the jigdo</u> tool to recreate the missing ISO images instead.				
Non-free Firmware				
This is an official Debian image build and so only includes Free Software.				
For convenience for some users, there is an alternative unofficial netinst CD build which includes <u>non-free firmware</u> for extra support for some awkward hardware. Look under <u>/cdimage/unofficial/non-free/cd-including-firmware/</u> if you need that CD image instead.				
Other questions?				
See the Debian CD FAQ for lots more information about Debian CDs and installation.				
The images here were put together by the $\underline{\text{Debian CD team}}$, using debian-cd and other software.				
Name	Last modified Size			
% Parent Directory	-			
MD5SUMS	2020-05-10 02:09 274			
MD5SUMS.sign	2020-05-10 02:16 833			
SHA1SUMS	2020-05-10 02:09 306			
SHA1SUMS.sign	2020-05-10 02:16 833			
SHA256SUMS	2020-05-10 02:09 402			
SHA256SUMS.sign	2020-05-10 02:16 833			
SHA512SUMS	2020-05-10 02:09 658			
SHA512SUMS.sign	2020-05-10 02:16 833			
S debian-10.4.0-amd64-netinst.iso	2020-05-09 14:03 336M			
6 debian-10.4.0-amd64-xfce-CD-1.iso	2020-05-09 14:04 640M			
6 debian-edu-10.4.0-amd64-netinst.iso	2020-05-09 14:04 406M			
S debian-mac-10.4.0-amd64-netinst.iso	2020-05-09 14:03 335M			

SWITCH TO USB STICK

If you want to use an USB stick instead of writing a CD-ROM:

- 1. Provides an USB stick (1go minimal) formatted with FAT32.
- 2. Download the tool <u>http://articatech.net/download/win32diskimager-1.0.0-install.exe</u> or <u>https://sourceforge.net/projects/win32diskimager/files/latest/download</u> for the latest one.
- Run win32diskimager
- Browse the downloaded ISO file on left part.
- Select the drive where the USB stick is connected on the right part.
- Click on Write button.

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C:/Users/dtouz/	Downloads/deb	bian-10.4.0-amd	54-netinst.iso	[E:\]	•
Hash				1	
None 🔻	Generate	Copy			
			-	•	
	located Partitio	ns			
Read Only Al		_			
Progression					
_ Read Only Al					

BIOS SETTINGS

Open the bios menu of your computer

- Turn off the **Secure boot** if you have the option.
- We suggest to disable the **Fast Boot** option if you have the option

System Boot State	User	Secure Boot flow control.
Secure Boot Mode State	Disabled	Secure Boot is available only
Secure Boot	[Disabled]	if System runs in User Mode.
		++: Select Screen 14/Click: Select Item Enter/Dbl Click: Select +/-: Change Opt. F7: Load User-defined Defaults F8: Save as User-defined F9: Optimized Defaults (When Access Level is Administrator) F10: Save & Exit ESC/Right Click: Exit

• Disable CSM if you have the option.



• Plug the USB stick or the CD-ROM and boot from it

INSTALL THE BASE DEBIAN





Choose install in the menu





Choose your current location for the timezone



Set USA for the locale settings



Define the language of your keyboard.



Set the hostname of the server

[1] 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: tourceoutbfs (Go Back) (Continue)	[11] 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 distribute the set of
	<go back=""> <continue></continue></go>
(Tab) moves; (Space) selects; (Enter) activates buttons Define the domain of your server	(Tab) moves: <space) <enter)="" activates="" buttons<br="" selects;="">Set the root password (example artica) and confirm it</space)>

	۵.
[11] Set up users and passwords A user account will be created for you to use instead of the root account for non-administrative activities. 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 used as any program which displays or uses the user's real name. Your full name is a reasonable choice.	[11] 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
(Continue)	<pre></pre>
Set an user that will be used to enter first on system (example artica)	Define the password of this new user (example artica)

Ly [11] Partition disks	le contraction de la contracti
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 customake the results. If you choose guided partitioning for an entire disk, you will next be asked which disk should be used. Partitioning method: Buided - use the largest continuous free space Buided - use entire disk and set up encrypted LVM Guided - use entire disk and set up encrypted LVM Manual	<pre>(II) Partition disks (II) Partition disks Note that all data on the disk you select will be erased, but not before you have confirmed that you really want to make the changes. Select disk to partition: Social (0,0,0) (sdd) - 21.5 DB WHeare, Wheare Virtual S Social (0,0,0) (sdd) - 1.0 DB Utids Use2FlashStorage (DD Back) (Tab) moves; (Space) selects; (Enter) activates buttons</pre>
On the partition disks , choose Guided: use the entire disk	Choose your system disk (do not choose the USB stick)



Choose your country to define the right internet repository

On the software selection, choose only SSH and standard system utilities.



Wait during the installation

Click on continue to reboot the system

INSTALL ARTICA

bian login: [3.212909] sd 3:0:0:0: [sdb] Asking for cache data failed 3.212924] sd 3:0:0:0: [sdb] Assuming drive cache: write through ssword: nux debian 4.19.0-9-amd64 #1 SMP Debian 4.19.118-2 (2020-04-29) x86_64 e programs included with the Debian GNU/Linux system are free software; e exact distribution terms for each program are described in the dividual files in /usr/share/doc/*/copyright. bian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent rmitted by applicable law. ot@debian:~# _

Logon as root and with password define during the installation

DOWNLOAD AND EXECUTE THE SETUP

Run the command



After few tasks, confirm the download of necessaries Debian packages in order to make all Artica features available.



Installation should take time. It depends on your bandwidth and your server performance

Once BASE DEBIAN is installed, the setup will retrieve the Artica Firmware including pre-compiled software.



Install minimal required services such as the Web console and the framework.

Setup will extract the main Artica Firmware

C OpenSSH SSH client	-	×
▶		^
INSTALLING ARTICA Please wait, Installing DNS CACHE SERVICE		
		v

Final: configure network

At the end, the setup will ask you to reconfigure your network for the main interface "eth0"

This setup is mandatory because after rebooting the name interface will be switched from ensxx to ethx

In this case you will not lost your server network after the reboot.

Now type this command to reboot the system:

reboot

OpenSSH SSH client		×
		î
ENTER IP ADDRESS FOR 'eth0' Enter your IP address for the eth0 Interface. Example: 111.112.113.114		
Cancel>		
		~