Alpaquita Linux Installing in virtualized environments



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Contents

1. Overview	4
2. Virtualization products	5
QEMU	5
VirtualBox	5
VMWare	10

1. Overview

To install Alpaquita Linux in a virtualized environment you can just download the latest ISO and use it to <u>install</u> a new VM in your favorite virtualization product. The advantage of this approach is that you can customize the new VM to your needs. The disadvantage is that you have to actually click through the installation, and while we tried to make the installation experience as smooth as possible, it is still a bit of a chore.

If you just need to do a quick test, you can instead use a preinstalled Alpaquita Linux image that you can start in your virtualization software right away. BellSoft provides both OVA files and QCOW2 disk images.

2. Virtualization products

QEMU

<u>QEMU</u> takes *tons* of different <u>command line options</u> that you can read about in the manual and choose what you need. But the bare minimum that can get you started is to specify the disk image to use, request the KVM acceleration, and to specify the amount of RAM you want.

Download either the <u>GLIBC Alpaquita QCOW2 file</u> or the <u>MUSL Alpaquita QCOW2 file</u> and use the following command example to start Alpaquita Linux in QEMU.

```
qemu-system-x86_64 -machine accel=kvm -hda alpaquita-stream-latest-musl-
x86_64.qcow2 -m 1024
```

Note:

Unlike OVA files, the downloaded image is used as the disk image for your VM, not as a template. Therefore, you might want to keep a copy of the originally downloaded .xz compressed image in some other location.

VirtualBox

To create an Alpaquita Linux VM in <u>VirtualBox</u>, download either the <u>GLIBC Alpaquita OVA file</u> or the <u>MUSL Alpaquita OVA file</u>.

1. Start the VirtualBox and click the **Import** button, or go to the **File** menu and select **Import Appliance**.



2. In the **Import Virtual Appliance** wizard, click the folder icon and select the Alpaquita OVA file you have downloaded. Then click **Next**.

×	Import Virtual Appliance	
	Appliance to import Please choose the source to import appliance from. This can be a local file system to import OVF archive or one of known cloud service providers to import cloud VM from. Source: Local File System Please choose a file to import the virtual appliance from. VirtualBox currently supports importing appliances saved in the Open Virtualization Format (OVF). To continue, select the file to import below. <u>Fi</u> le: /home/ /Downloads/alpaquita/alpaquita-stream-latest-musl-x86_64.ova	•
Help	Expert Mode Back Next Cance	<u>a</u>

3. On the **Appliance settings** page of the import wizard you can change the name of your new virtual machine.

×		Import Virtual Appliance		
	Appliance settings			
	These are the virtual r the imported VirtualB double-clicking on the	nachines contained in the appliance and the suggested settings of ox machines. You can change many of the properties shown by i items and disable others using the check boxes below.		
	Virtual System 1		•	
	😫 Name	alpaquita-stream-230517-musl-x86_64		
	Product	Alpaquita Linux		
	Product-URL	https://bell-sw.com/alpaquita-linux/		
	Vendor	BellSoft		
	Vendor-URL	https://bell-sw.com/		
	Version	alpaquita-stream-230517-musl-x86_64		
	Description	user: alpaquita, password: alpaquita	¥	
	Machine Base Folder:	/home//VirtualBox VMs	•	
	MAC Address Policy:	Include only NAT network adapter MAC addresses	•	
	Additional Options:	✓ Import hard drives as VDI		
	Appliance is not signed	1		
Help		<u>B</u> ack <u>F</u> inish <u>C</u> ancel		

Scroll down the list of settings and assign more CPUs and RAM to your virtual machine if necessary. Keep the defaut values of other settings.

×	Import Vir	tual Appliance
	Appliance settings These are the virtual machines co the imported VirtualBox machine double-clicking on the items and	ontained in the appliance and the suggested settings of es. You can change many of the properties shown by disable others using the check boxes below.
	🗄 Guest OS Type	Other Linux (64-bit)
	CPU	1
	RAM	512 MB
	🖉 USB Controller	v —
	Network Adapter	✓ Intel PRO/1000 MT Desktop (82540EM)
	Storage Controller (IDE)	PIIX4
	Storage Controller (IDE)	PIIX4
	🝷 🤌 Storage Controller (SATA)	AHCI
	Machine Base Folder: 💼 /home/	VirtualBox VMs
	MAC Address Policy: Include on	ly NAT network adapter MAC addresses 🔹
	Additional Options: V Import	nard drives as VDI
	Appliance is not signed	
Help		<u>Back</u> <u>Finish</u> Cancel

- 4. Click Finish.
- 5. Open the **Settings** dialog box for your new VM and go to the **System** tab (as a shortcut you can just click **System** in the VM pane).

× _ 0	Oracle VM VirtualBox Manager
File Machine Help	Image: Weight of the second
Powered Off	General Anme: Alpaquita-stream-musl Operating System: Other Linux (64-bit)
	System Base Memory: 512 MB Boot Order: Floppy, Optical, Hard Disk Acceleration: Nested Paging, PAE/NX, KVM Paravirtualization
	Display Video Memory: 16 MB Graphics Controller: VBoxVGA Remote Desktop Server: Disabled Recording: Disabled
	Storage Controller: IDE Controller: SATA SATA Port 0: alpaquita-stream-230517-musl-x86_64.vdi (Normal, 8.00 GB)
	Paulo Host Driver: Default Controller: ICH AC97
	Petwork Adapter 1: Intel PRO/1000 MT Desktop (NAT)
	USB Controller: OHCI Device Filters: 0 (0 active)

6. On the **System** tab select the **Enable Hardware Clock in UTC Time** option.

× - 0	alpaquita-stream-musl - Settings	
📃 General	System	
 General System Display Storage Audio Network Serial Ports USB Shared Folders User Interface 	System Motherboard Processor Acceleration Base Memory: 4 MB Boot Order: 4 MB Boot Order: 4 MB Boot Order: 9 Floppy 9 9 9 9 9 9 9 9 9 9 9 9 9	B 512 MB \$
1 Help		el

7. Change the graphics controller type to VMSVGA to get rid of a warning icon at the bottom of the **Settings** dialog box.

99	arpaquita-scream-musi - sectings
General System Display Storage Audio Network Serial Ports USB Shared Folders USP USP	Display Screen Remote Display Video Memory: 0 MB 16 MB 0 MB 128 MB Monitor Count: 1 1 8 Scale Eactor: All Monitors 100% 200% Graphics Controller: VMSVGA Extended Features: Enable <u>3</u> D Acceleration
<mark>∂H</mark> elp	Scancel Sock

Note:

This change is required only if you want to run KDE in this VM.

You can make any additional changes to the VM configuration that you need, such as add more network adapters, set up port forwarding, or configure a serial port.

- 8. Click **OK** to save the changes and close the **Settings** dialog box.
- 9. Start your new VM by clicking the **Start** button.

Note:

Use the small down arrow at the edge of the **Start** button to access additional start options. For example, if you choose the **Detachable Start** option, you can later close the VM window but leave the VM running in the background.

After a few seconds after clicking **Start**, you can log in to your new VM with the username alpaquita and password alpaquita, and do the necessary setup and configuration inside your new VM.



VMWare

Another virtualization solution you can use is one of the VMWare products. The walkthrough below uses <u>VMware Workstation Player</u> that is free for non-commercial use.

To create an Alpaquita Linux VM in the VMWare Workstation Player, download either the <u>GLIBC</u> <u>Alpaquita OVA file</u> or the <u>MUSL Alpaquita OVA file</u>.

1. Start the VMware Workstation Player and click **Open a Virtual Machine** to import the OVA template.

Note:

The VMWare actually *imports* a new VM based on the OVA template, not *opens* the OVA in place.

netp		
	Welcome	to VMware Workstation 17 Player
		Create a New Virtual Machine Create a new virtual machine, which will then be added to the top of your library.
		Open a Virtual Machine Open an existing virtual machine, which will then be added to the top of your library.
	þ	Upgrade to VMware Workstation Pro Get advanced features such as snapshots, virtual network management, and more.
	?	Help View online help.
	This pro only. Fo	duct is not licensed and is available for non-commercial use r commercial use, purchase a license. <u>Buy now</u> .
		Welcome

2. Select the OVA file, change the VM name if you want and click Import.

×	Import Virtual Machine
Store the new Virtual Provide a name and	l Machine local storage path for the new virtual machine.
vmware [.] WORKSTATION	alpaquita-stream-latest-musl-x86_64.ova must be converted to a VMware virtual machine to be used in VMware Player.
PLAYER [™] 17	Name: alpaquita-stream-latest-musl-x86_64
17	Location: /home//vmware/alpaquita-stre: Browse
	😵 Cancel 🛛 🕹 Import 🔉

You might see the following warning if the imported OVA only asks for one CPU. Click **Retry** to proceed with the import.

×	Question	
?	The import failed because /home/ /Downloads/ alpaquita/alpaquita-stream-latest-musl-x86_64.ova did not pass OVF specification conformance or virtual hardware compliance checks.	
	Click Retry to relax OVF specification and virtual hardware compliance checks and try the import again, or click Cancel to cancel the import. If you retry the import, you might not be able to use the virtual machine in VMware Player.	
	Never show this hint again	
	S Cancel Retry	

3. Once the import is finished you can edit the new VM settings or just start it right away by clicking **Power On**.

× - • • VMware Workstation 17 Player (1	Non-commercial use only)
File Virtual Machine Help	
Home alpaquita-stream-latest-musl-x86_64 alpaquita-stream-latest-musl-x86_64 alpaqu State: OS: Version: RAM: Pow @ Edit	ita-stream-latest-musl-x86_64 Powered Off Other 64-bit Workstation 17.x virtual machine 512 MB er On ivirtual machine settings

After a few seconds you can log in to your new VM with the username alpaquita and password alpaquita, and do the necessary setup and configuration inside your VM.







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