## Alpaquita Linux Getting started with AWS images



Alpaquita Linux Revision 1.0 January 2024



Copyright © BellSoft Corporation 2018-2024.

BellSoft software contains open source software. Additional information about third party code is available at <u>https://bell-sw.com/third\_party\_licenses</u>. You can also get more information on how to get a copy of source code by contacting <u>info@bell-sw.com</u>.

THIS INFORMATION MAY CHANGE WITHOUT NOTICE. TO THE EXTENT PERMITTED BY APPLICABLE LAW, BELLSOFT PROVIDES THIS DOCUMENTATION "AS IS" WITHOUT WARRANTY OF ANY KIND, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NONINFRINGEMENT. IN NO EVENT WILL BELLSOFT BE LIABLE TO YOU OR ANY THIRD PARTY FOR ANY LOSS OR DAMAGE, DIRECT OR INDIRECT, FROM THE USE OF THIS DOCUMENTATION, INCLUDING WITHOUT LIMITATION, LOST PROFITS, LOST INVESTMENT, BUSINESS INTERRUPTION, GOODWILL, OR LOST DATA, EVEN IF BELLSOFT IS EXPRESSLY ADVISED IN ADVANCE OF THE POSSIBILITY OF SUCH LOSS OR DAMAGE.

The use of any software product referenced in this document is governed by the applicable license agreement, which is not modified in any way by the terms of this notice.

Alpaquita, Liberica and BellSoft are trademarks or registered trademarks of BellSoft Corporation. The registered trademark Linux® is used pursuant to a sublicense from the Linux Foundation, the exclusive licensee of Linus Torvalds, owner of the mark on a worldwide basis. Java and OpenJDK are trademarks or registered trademarks of Oracle and/or its affiliates. Other trademarks are the property of their respective owners and are used only for identification purposes.

## Contents

1. Overview	4
2. Selecting an image	5
3. Launching the virtual machine instance	7
Instance Name	7
The source AMI	7
Instance Type	8
Networking	9
Storage	11
Review and launch	11
4. Logging in	13

## 1. Overview

BellSoft provides Alpaquita Linux images for the AWS Cloud. Alpaquita Linux is an Alpine-based distribution with two libc options (improved musl and glibc) and several performance and security optimizations. Alpaquita cloud images enable developers to build microcontainers and significantly reduce cloud costs.

## 2. Selecting an image

Use Bell-SW <u>AWS page</u> to select the Amazon Machine Image (AMI) with the combination of parameters that you are interested in.

	AMI is a mas Amazon Web	ster image for c Services (AWS	reating virtual se ) environment.	rvers, known as EC	C2 instances,	in the
8 - •	🏮 Download OpenJDK builds o	× +				~
$\leftarrow \  \  \rightarrow \  \  \mathbf{G}$	♦ https://be	ell-sw.com/pages/downloads/	/alpaquita-cloud-image/		☆	മ ≡
be//so	ft	Products ~	Resources Support	About us Downloads	Contact us	
Launch Reg	gion	LIBC	Firmware	Bootstrap		
us-east-	1	▼ glibc	✓ uefi	▼ cloud-init		•
		Alpaqu	× Reset Filter	am		
			64 bit			
Ċ	<u>x86</u>	Alpa UEF	aquita Stream glibc c I	loud-init us-east-1 for >	x86_64 with	
	Region: us-east-	-1 • ? ↓ Ir	nage details		Copy AMI	0

Clicking **Image details** of the image you want to launch opens the AWS web interface (you need to provide authentication information if you have not logged in to the AWS web interface). The image details page provides all the information about the image. The "Launch instance from AMI" button opens the forms page to set up the VM instance.

N					
😼 💶 🗉 🧊 Image details	EC2 Manager× +				
$\leftarrow \rightarrow \mathbf{G}$	} ≅ https://us-east-1.console.aw	s. <b>amazon.com</b> /ec2/home?r	egion=us-east-1#ImageDetails:imageId=ami	-0e9ca18cff2 🏠	රු ≡
aws Services Q Search			[Alt+5] 🗵 🗘 🦁	N. Virginia 🔻	•
🗑 S3 🙋 EC2 🧕 IAM 🎯 VPC 🔅	🕄 Console Home				
New EC2 Experience Tell us what you think	EC2 > AMIs > ami-0e9ca18cff	2450044			
EC2 Dashboard	Image summary for ami init-230228-024140.am	-0e9ca18cff2450044 i)	l (alpaquita-stream-glibc-uefi-cl	oud-	
EC2 Global View	C2 Image Builder	Actions <b>T</b>	ch instance from AMI		
Events					
Tags	AMIID	Image type	Platform details	Root device type	
Limits	ami-0e9ca18cff2450044	machine	Linux/UNIX	EBS	
	(alpaquita-stream-glibc-uefi-				
▼ Instances	cloud-Init-230228-024140.ami)				
Instances	AMI name	Owner account ID	Architecture	Usage operation	
Instance Types	🗇 alpaquita-stream-glibc-	143320424681	x86_64	RunInstances	
instance types	uefi-cloud-				
Launch Templates	init-230228-024140.ami				
Spot Requests	Root device name	Status	Source	Virtualization type	
Savings Plans	D /dev/xvda	Available	143320424681/alpaquita-	hvm	
Reserved Instances		-	stream-glibc-uefi-cloud- init-230228-024140.ami		
Dedicated Hosts					
Scheduled Instances	Boot mode	State reason	Creation date	Kernel ID	
Feedback Language			© 2023, Amazon Web Services, Inc. or its affiliat	es. Privacy Terms	Cookie preferences

# 3. Launching the virtual machine instance

Click the "Launch instance from AMI" button to open the launch page with a set of forms. Fill in the forms for the selected image.

#### Instance Name

Type in a name for your instance in the **Name** field.

=	EC2 > Instances > Launch an instance
	Launch an instance Info Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.
	Name and tags Info
	Name HelloAlpaquita Add additional tags

#### The source AMI

This form is pre-filled with the information from the AMI you have selected on the previous step. Leave the default values.

		Airiis ii you doin t see w	hat you are tooking to	or below
Q Search our full	catalog including	1000s of applicatio	n and OS images	
	I	1		
AMI from catalo	Recents	My AMIs	Quick Start	
Amazon Machine In	nage (AMI)			Q
alpaquita-stream-g	libc-uefi-cloud-			Browse more AMI
init-230228-02414	0.ami			Including AMIs from
ami-0e9ca18cff245	0044			AWS, Marketplace and the Community
Published	Architecture	Virtualization	Root device	ENA Enabled
2023-02-27T2	x86_64	hvm	type	Yes
			ebs	
3:48:38.000Z				

#### Instance Type

Virtual machines in the cloud come in many shapes and sizes. In the next form, select the instance type you want. You can leave the default selection for a quick introduction.



Instance type Info		
istance type		
t3.micro		
Admity: to 2 VCPO I GID Memory On-Demand SUSE pricing: 0.0104 USD per Hour	•	Compare instance types
On-Demand RHEL pricing: 0.0704 USD per Hour		

### Networking

Fill in the following form to access your cloud instance.

Select	Create new key pair
Network settings Info	Edit
Network Info	
vpc-fddb549b	
Subnet Info	
No preference (Default subnet in any	availability zone)
Auto-assign public IP Info	
Enable	
Firewall (security groups) Info A security group is a set of firewall rules tha instance.	t control the traffic for your instance. Add rules to allow specific traffic to reach your
	<ul> <li>Select existing security group</li> </ul>
Create security group	
• Create security group We'll create a new security group calle	ed ' <b>launch-wizard-12</b> ' with the following rules:
<ul> <li>Create security group</li> <li>We'll create a new security group calle</li> <li>Allow SSH traffic from</li> </ul>	ed ' <b>launch-wizard-12</b> ' with the following rules:
<ul> <li>Create security group</li> <li>We'll create a new security group calle</li> <li>Allow SSH traffic from Helps you connect to your instance</li> </ul>	Anywhere
<ul> <li>Create security group</li> <li>We'll create a new security group calls</li> <li>Allow SSH traffic from Helps you connect to your instance</li> <li>Allow HTTPS traffic from the inter</li> </ul>	Anywhere

Use an existing <u>SSH key pair</u>, or create a new one. This key pair provides identification when you connect to the created instance.

Select **Allow SSH traffic from** to enable the SSH traffic to connect to your instance.

If you plan to start a networking server in your instance, configure the relevant firewall rules in this form.

#### Storage

The next form helps you select the amount of disk space your instance can occupy. If you only want to do some basic testing, leave the default value. If you want to install some apps and test them, you might want to increase the space. In this example we have increased the amount of available disk space form 1GB to 5GB for demonstration purposes.

	Auvance
1x 5 GiB gp2   Root volume (Not encrypted)	
Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage	ge X
Add new volume	

#### **Review and launch**

You are ready to launch your instance. Review the summary of your settings and click the **Launch instance** button.



## 4. Logging in

When the instance is launched, you can <u>log in</u> with an SSH client using the *default username* alpaquita and the SSH key pair you specified when configuring the instance.



Alpaquita Linux Getting started with AWS images be//soft