

Jami and how it empowers users

LibrePlanet 2021

Amin Bandali



What is Jami?



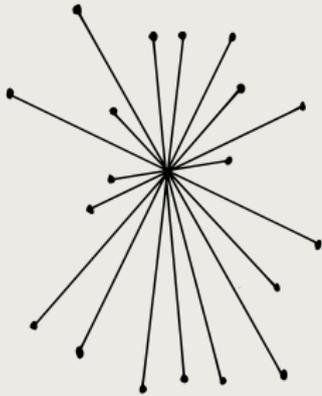
Jami is free software for universal communication
that respects the freedom and privacy of its users

- one-on-one conversations
- file sharing
- audio/video calls & conferences
- screen sharing in video calls & conferences
- recording & sending audio/video messages
- SIP phone software functionality
- cross-platform communication framework

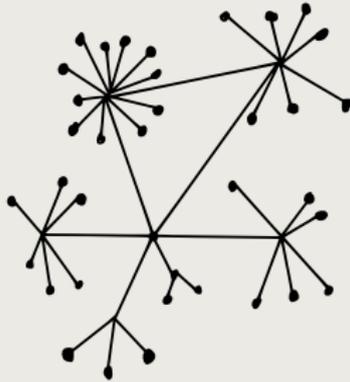
Architecture overview

Jami is

an **end-to-end encrypted** secure
and **distributed** voice, video,
and chat **communication platform**
that requires **no central server**
and leaves the power of **privacy**
and **freedom** in the hands of *users*



Centralized



Decentralized

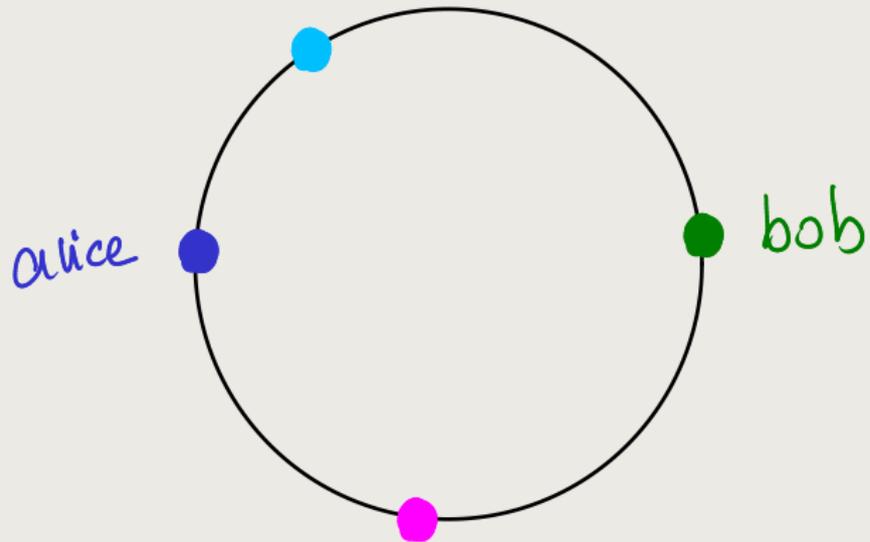


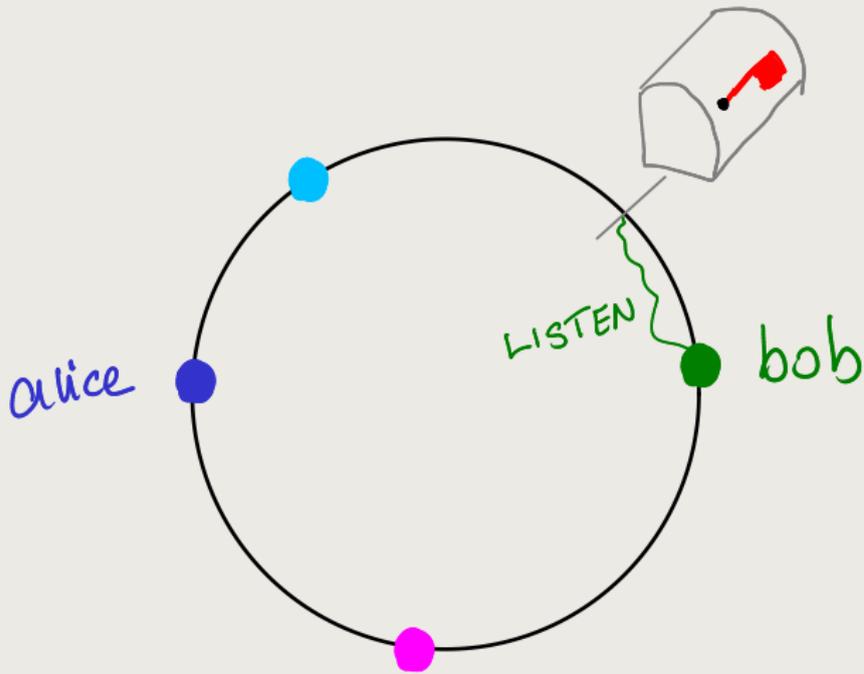
Distributed

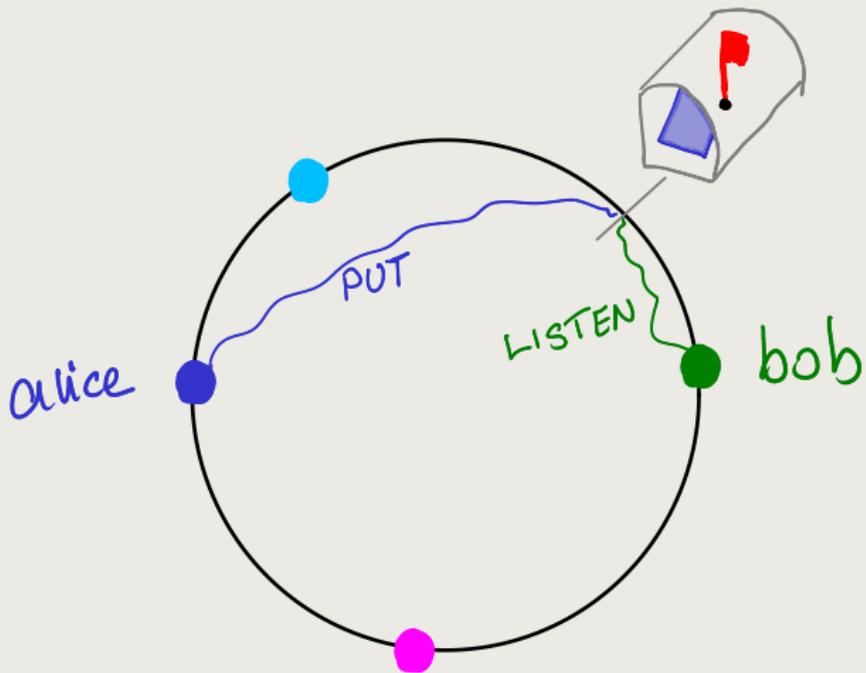
OpenDHT



- lightweight and scalable, designed for large networks and small devices
- high resilience to network disruption
- IPv4 and IPv6 support
- clean and powerful C++14 *map* API
- C, Rust, and Python 3 bindings
- public key crypto layer providing optional data signing and encryption (using GnuTLS)
- REST API with optional HTTP client+server and push notification support









TLS
ICE



SIP
TLS
ICE



SRTP

SIP

TLS

ICE



Development news

- many connectivity improvements
- automatic video bitrate adjustment
- detached host rendezvous points
- notification improvements
- bidi text in the chat view
- video renderer improvements
- conference call moderation
- improved error handling
- object copy reductions
- plugin API overhaul
- ... and more!

Rendezvous points

Windows taskbar: Microsoft Edge, Settings, and a window titled "Michael" (michael1).

Search bar: Find or start a co... +

Participant list (left sidebar):

- Bruce Hay...** (brucehayler) - Talking
- John Sawyer** (johnsawyer) - Talking
- Oliver** (olivier56) - 16:40
- Will Do...** (willdoohanvan) - 2019-11-12
- Daniell...** (danielleca) - 2019-11-12
- Justin C...** (justinclarck) - 2019-11-12
- Rocio** (rociio26) - 2019-11-12
- Laura Sc...** (laurascott) - 2019-11-12
- Camille** (camille33) - 2019-11-12
- Marc** (marc258) - 2019-11-12
- Lyna La...** (lynalaurens) - 2019-11-12
- Lena Kean** (lenakean) - 2019-11-12
- Julie** (julie42) - 2019-11-12

Participant: **John Sawyer** (johnsawyer) - Talking 00:41

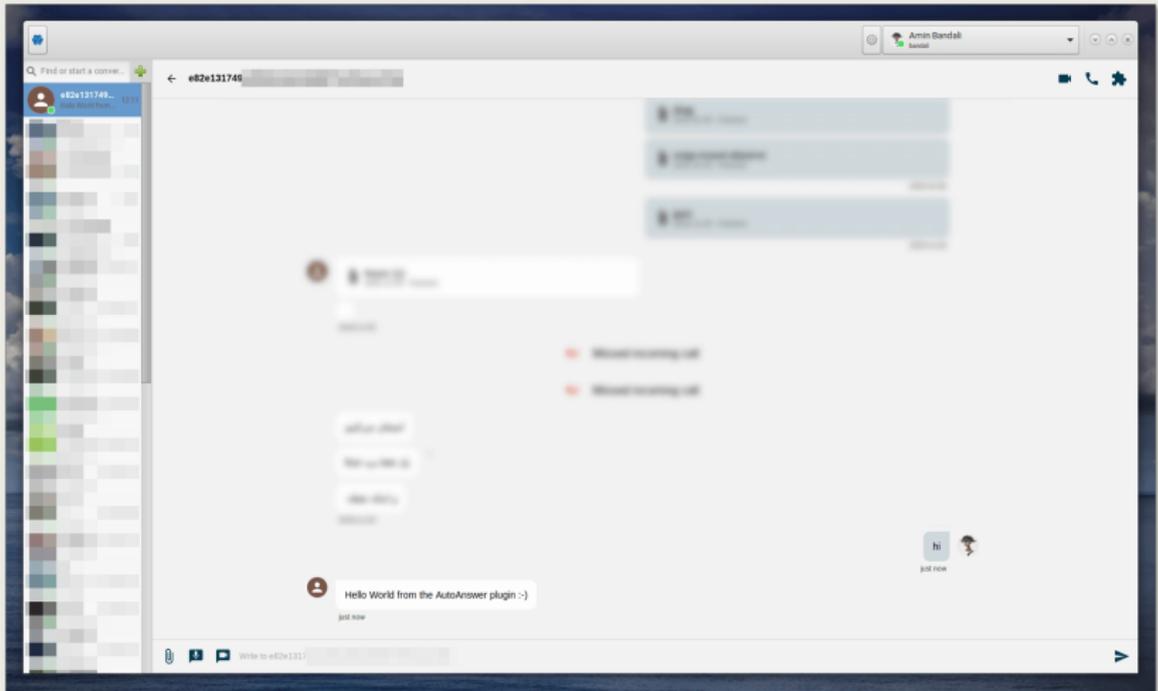
Video thumbnails:

- Top-left: A man in a red beanie and black jacket smiling outdoors.
- Top-right: A close-up portrait of a man with wavy brown hair.
- Bottom-left: A man in a blue t-shirt looking upwards outdoors.

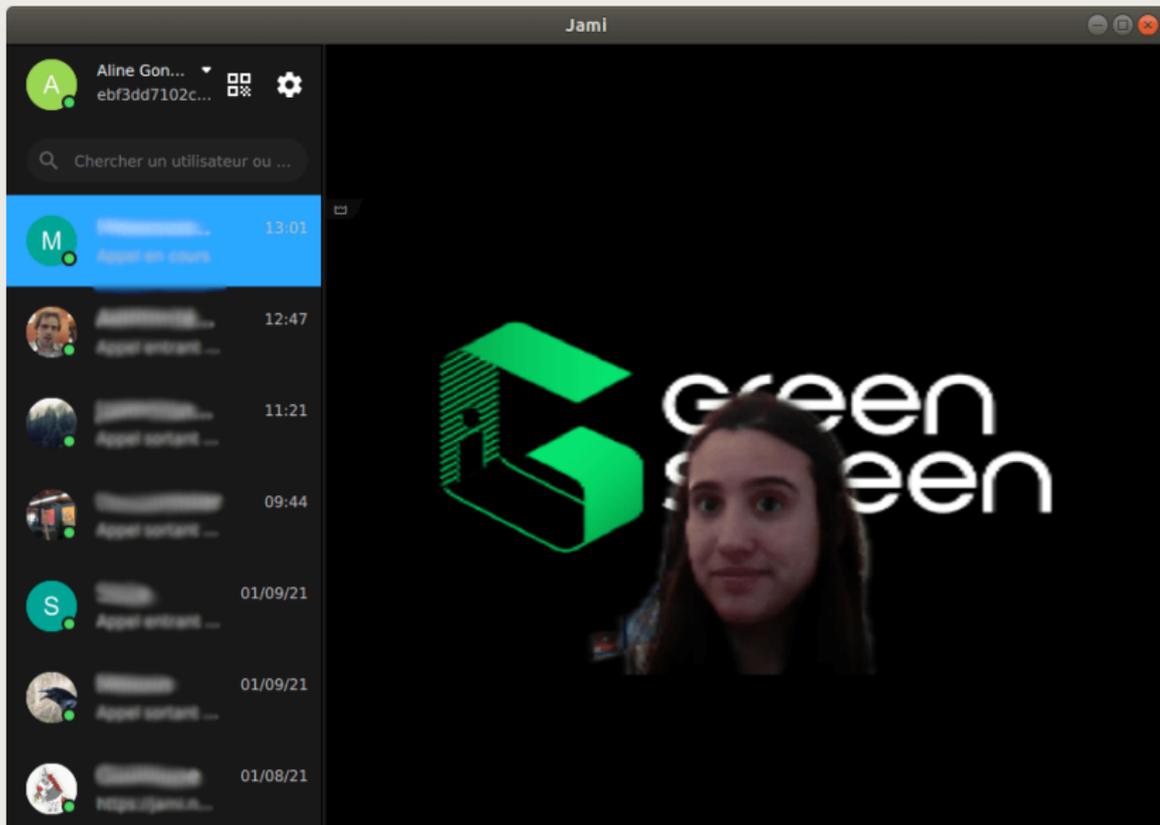
Control bar (bottom):

- Red hang-up button
- Participants icon
- Pause button
- Microphone icon
- Video camera icon
- Red indicator light
- Chat icon
- Help icon

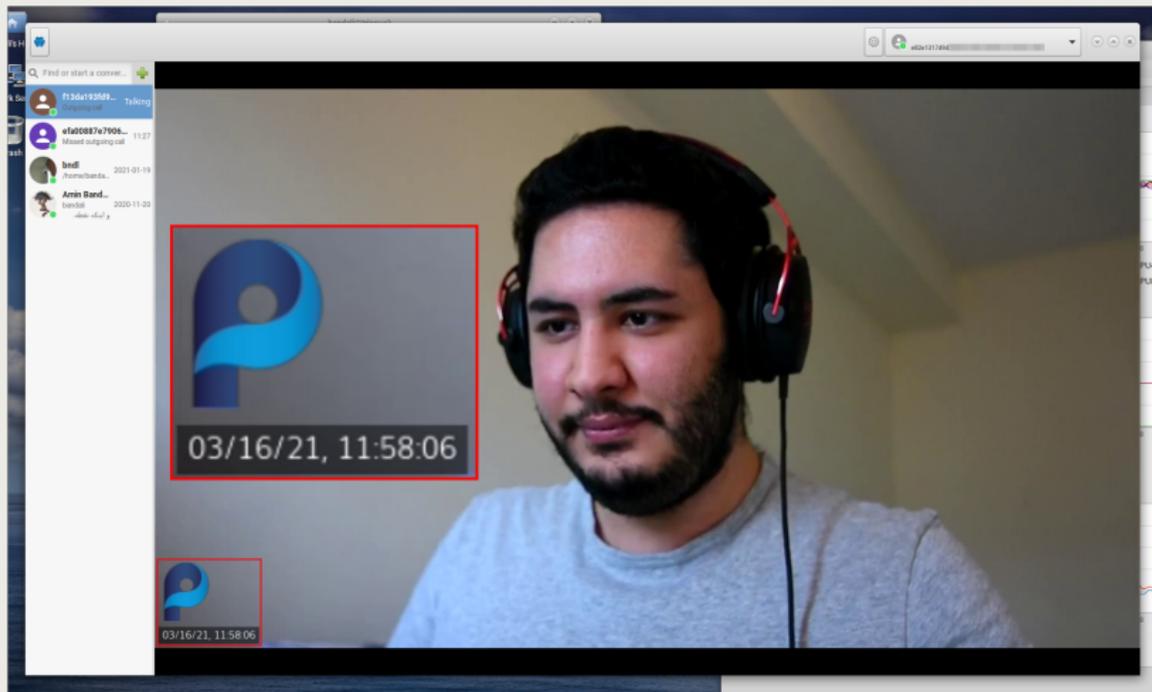
Plugins



AutoAnswer

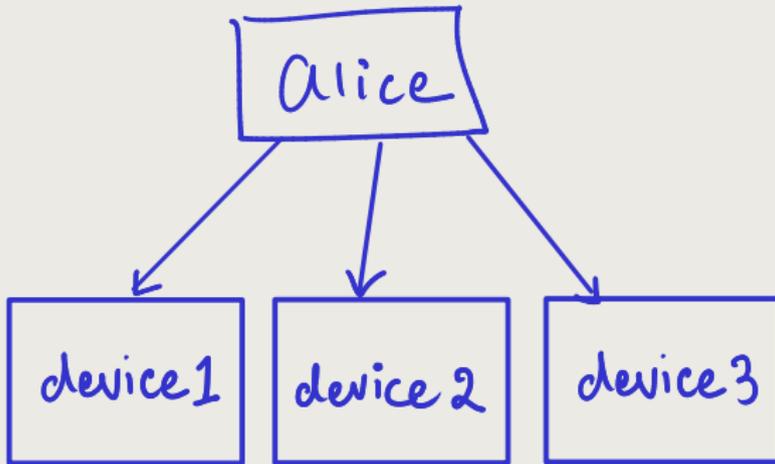


GreenScreen

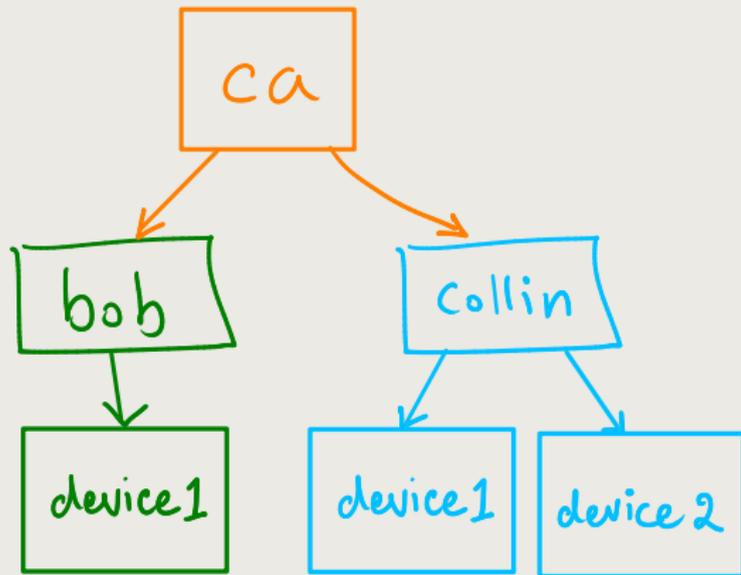


WaterMark

JAMS



Jami account & device management



Jami account & device management (with JAMS)

jami-qt **client**



Amin Ban...
bandali



Find a user or search for a ...



e82e1317... 20:53
jami-qt



Jami is free software for universal communication which respects the freedoms and the privacy of its users.

This is your Jami username.
Copy and share it with your friends!

bandali



About Jami

Jami

Amin Ban... bandali

Find a user or search for a ...

e82e1317... 20:53 jami-qt

hours (1)
03/11/2020 - Finished

03/11/2020

Missed incoming call

Missed incoming call

امتحان می کنیم
یک two سه four
و اینگه نقطه.

20/11/2020

hi
one day ago

Hello World from the AutoAnswer plugin :-)
one day ago

jami-qt
4 minutes ago

Write to e82e1317

Amin Ban...
bandali

Account



General



Audio/Video



Plugin

Account Settings

Enable account

Profile



Amin Bandali

Identity

Identifier

bbe1c6e697c6be7a708221d52f7e72dfea85c77e

Username

bandali

Change password



Backup account



Delete account

Linked Devices



LGE Nexus 5



Jami

Amin Ban...
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Account

General

Audio/Video

Plugin

General

System

Enable dark theme

Enable desktop notifications

Keep minimized on close

Launch at startup

Downloads directory

Chatview

Enable typing indicators

Display images and videos in the chatview

Call Recording

Always record calls

Record call

Quality

Save in

Moderation



f13da193...



efa00887e7906fc5d6fedc506b64f89f...

02:07



Find a user or search for a ...



efa00887...

10:21

Talking



Amin Ban...

01/15/21

t



e82e1317...

12/17/20

Contact added



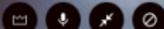
Munnin

12/15/20

Missed outgoi...



efa00887e7906fc5d6fedc506b64f89f00e43052



Swarm chat

Community

- `jami.net`
- `forum.jami.net`
- `jami@gnu.org`
- `#jami` on freenode
- `git.jami.net`
- `review.jami.net`
- `docs.jami.net`
- write and share your own plugins
- help translate Jami to your language(s)
- package Jami in your GNU/Linux distribution
- *use Jami and help spread the word <3*

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Thanks !

bandali@gnu.org

bndl.org/lp2021

(GPLv3+)

Amin Bandali