

Zitadelle Heldrungen



25.07.2025 - Block 907.101

Alby & NWC



Alby & NWC

Übersicht: Das Universum

Alby



Alby Hub

Alby Extension

Alby Account

Alby Go

Nostr Wallet Connect (NWC)



Von Lightning-Hackdays zur wohl bekannten Marke

Open-Source-Projekt seit 2020 → Start mit Alby Extension

Firma „Alby Inc.“ gegründet in USA / Delaware im März 2022 von Bumi, Moritz und René

Markennahme / Webseite: getalby.com / Mitarbeiterzahl: ca. 10 (Datum?)

Free and Open Source Software auf GitHub: <https://github.com/getalby>

„Wir stellen uns eine Welt vor, in der jeder nahtlos Werte senden und empfangen kann, so einfach wie heute das Teilen von Informationen im Internet. Deshalb unterstützen wir Verbraucher und Entwickler mit benutzerfreundlichen Bitcoin-Zahlungstools auf Basis des Lightning-Netzwerks – dem zukünftigen Zahlungsprotokoll – überall: im Internet, in mobilen Apps und in der realen Welt.“

Alby-Produkte:

- Alby Browser Extension
- Alby Account (Service)
- Alby Hub (Self-custodial Wallet & Node)
- Alby Go (Mobile Wallet)
- Außerdem Tools & Lab-Projekte: Lightning-Tools, SDKs, Nostr Wallet Connect, etc.

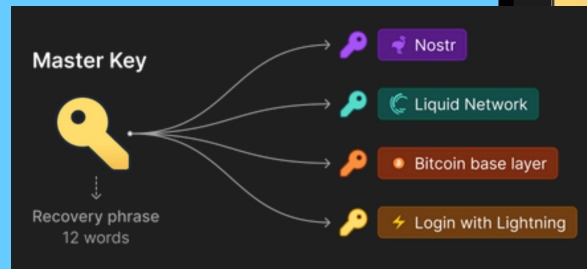


Alby Extension

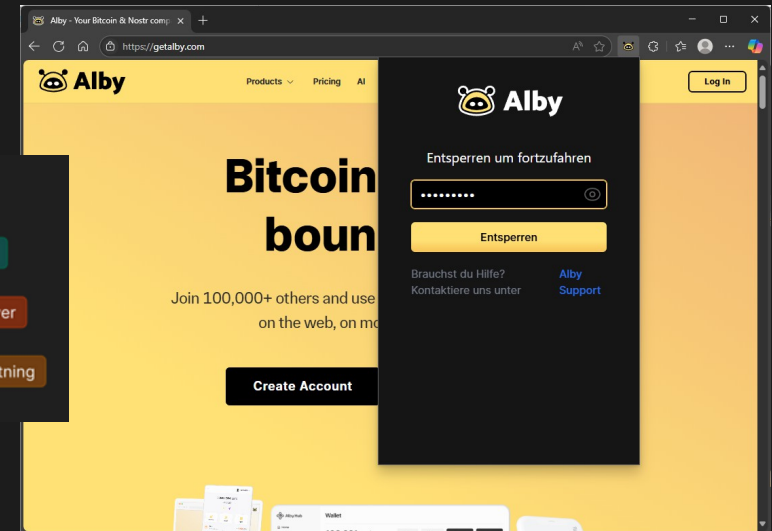
Der Schlüsseltresor mit Browser-Wallet

- Die Schlüssel und die Daten werden in einer Datei lokal auf dem Rechner verschlüsselt gespeichert.
- Beim Start des Browser, benötigt man ein unlock passcode (keine E-Mail, etc.), zum entsperren der Browser Erweiterung.
- Mehrere Wallets sind unter einer Erweiterung möglich.
- Ein Master (seed) key pro Wallet:

- > Nostr key nsec/npub
- > Lightning-Auth
- > Bitcoin onchain
- > Liquid wallet



- Verknüpfung mit Alby Account oder andere Finanzierungsquellen, z.B. NWC-Wallet, LND, LNbits, etc.
- 1-Click Lightning ⚡ Zahlungen im Browser.
- Login auf Webseiten wie z.B. verein.einundzwanzig.space.
- Schlüsseltresor für Nostr Clients wie z.B. coracle.social.





Alby Extension



Entsperren um fortzufahren

Entsperren

Brauchst du Hilfe?
Kontaktiere uns unter



plebs@nwc.wtf

getalby.com

Erweiterungen

Alby - Bitcoin Wallet for Lightning...

ESET Browser Privacy & Security

Erweiterungen verwalten

Erweiterungen für Microsoft Edge abrufen



Alby Extension

Alby: Your Bitcoin & Neuer Tab

Alby Extension

chrome-extension://iokeahh...

Alby - Bitex

Wallet Verbundene Webseiten Apps entdecken

plebs@nwc.wtf

Wallet-Einstellungen

Wallet-Einstellungen

Einstellungen, die sich auf diese spezielle Instanz der verbundenen Brieftasche beziehen. Wenn du die Verbindung wiederherstellst, müssen die Einstellungen für die Schlüssel oder den Anzeigenamen erneut vorgenommen werden.

Allgemein

Anzeigename

plebs@nwc.wtf

Speichern

Lightning Adresse

tranquillnourishment290188@getalby.com

Ändern auf getalby.com

Schlüsselverwaltung

Neuen Hauptschlüssel generieren

Hauptschlüssel generieren

Hauptschlüssel importieren

Hauptschlüssel importieren

Nostr öffentlicher Schlüssel

Nostr Einstellungen

Alby: Your Bitcoin & Neuer Tab

Alby Extension

chrome-extension://iokeahh...

Alby - Bitex

Wallet Verbundene Webseiten Apps entdecken

plebs@nwc.wtf

6.071 sats

~7,20 \$

Empfangen Senden Apps

Setup Master Key oder Nostr Key

Generiere oder importiere deinen Master Key oder importiere deinen bestehenden Nostr Key

Zitadelle is coming 7 minutes ago +7 sats ~0,01 \$

Empfang 8 minutes ago +8 sats ~0,01 \$

["text/plain", "Webcam Theater - LNPeepShow"] 21 hours ago -2 sats ~0,00 \$

Gesendet 2 days ago -21 sats ~0,02 \$

zitadelle 3 days ago +10 sats ~0,01 \$

ATM withdraw 422 sats for 0.4 2 months ago +422 sats ~0,50 \$

Gesendet 3 months ago -2 sats ~0,00 \$

Gesendet 3 months ago -21 sats ~0,02 \$

Alle sehen

Alby: Your Bitcoin & Neuer Tab

Alby Extension

chrome-extension://iokeahh...

Alby - Bitex

Wallet Verbundene Webseiten Apps entdecken

plebs@nwc.wtf

Deine Webseiten

Webseiten, auf denen du Alby bereits verwendet hast

Select Wallet

plebs@nwc.wtf 6.071 sats

71er@fantasymail.de

AlbyHub21HH

FunnyDummyTestDummy

axelhamburch

axeltest

Connect Wallet

jukebox HAUSHALT

jukebox.lighting • 7 Zahlungen • insgesamt 1.4

wtf is nwc?

nwc.wtf • 2 Zahlungen • insgesamt 112 sats

Ereignishorizont

ereignishorizont.xyz • 14 Zahlungen • insgesamt 1.000 sats

nostr

nostr.build • 1 Zahlungen • insgesamt 1.000 sats

coracle HAUSHALT LOGIN

coracle.social • 7 Zahlungen • insgesamt 336 sats • Budget 231 / 1.000 sats

snort HAUSHALT LOGIN

snort.social • 2 Zahlungen • insgesamt 100 sats • Budget 0 / 2 sats

stacker LOGIN

stacker.news • 0 Zahlungen



Alby Extension

Beispiele Lightning Zahlungen

The screenshot shows the Alby Extension interface with a donation page for Ereignishorizont. The page displays a QR code for Lightning payments and a list of recent transactions. The Alby Extension window is open, showing the 'Senden' (Send) modal with the following details:

- Recipient:** Ereignishorizont (inbits.ereignishorizont.xyz)
- Beschreibung:** Donate as much as you like.
- Betrag:** 25 (between 1 and 100,000 sats) ~0,03 \$
- Kontostand:** 1,109 sats
- Kommentar:** Zitadelle 25

The background page shows a QR code for Lightning payments and a list of recent transactions:

Transaction	Amount	Time
[[["text/plain", "Donate as much ...	- 25 sats	a few seconds ago
Ticket für die Helden Gruppe ~...	- 1 sat	3 months ago
Ticket für die Helden Gruppe ~...	- 1 sat	3 months ago
Inbits.ereignishorizont.xyz	- 10 sats	3 months ago
Inbits.ereignishorizont.xyz	- 21 sats	3 months ago

The screenshot shows the Alby Extension interface with a payment confirmation for Stacker News. The page displays a QR code for Lightning payments and a list of recent transactions. The Alby Extension window is open, showing the 'Zahlung genehmigen' (Confirm Payment) modal with the following details:

- Amount:** 100 sats ~0,12 \$
- Beschreibung:** SN: zap 100 sats to #1022804

The background page shows a QR code for Lightning payments and a list of recent transactions:

Transaction	Amount	Time
[[["text/plain", "Donate as much ...	- 25 sats	a few seconds ago
Ticket für die Helden Gruppe ~...	- 1 sat	3 months ago
Ticket für die Helden Gruppe ~...	- 1 sat	3 months ago
Inbits.ereignishorizont.xyz	- 10 sats	3 months ago
Inbits.ereignishorizont.xyz	- 21 sats	3 months ago



Alby Extension

Beispiel Lightning-Auth

The image is a collage of screenshots illustrating the Alby Extension workflow for Lightning authentication on the Treasures website.

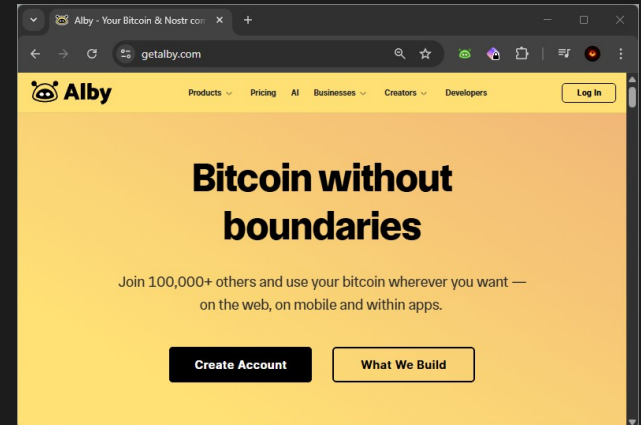
- Background:** A browser window showing the Treasures website (https://treasures.to) with a "Welcome, Traveler!" modal overlay. The modal has a "Login with Extension" button.
- Alby Extension Pop-up:** A small window titled "Alby Extension" showing the user's profile "FunnyDummyTestDu..." and a "Nostr" section with a "Tresures" entry.
- Lightning Auth Confirmation:** A larger Alby Extension window titled "Mit Nostr verbinden" (Connect with Nostr). It asks for confirmation to allow "Tresures" to use the user's Nostr profile for login. It includes a "Verweigern" (Deny) button and a "Bestätigen" (Confirm) button.
- Nostr Event Confirmation:** A Nostr event confirmation window titled "Nostr" showing a message from "Tresures" asking for a signature. It includes a "Verweigern" button and a "Bestätigen" button.
- User Profile Card:** A card for the user "FunnyDummyTestDummy" showing a "Note" and a timestamp "7 minutes ago". It includes a "Login per Alby Extension" status and a "Freu mich auf die Zitadelle" message.



Alby Account

Web Account bei getalby.com

- cloudbasiert
- Login über Email und Passwort (oder one-time login code)
- Lightning Web-Wallet
- Email Benachrichtigungen über Zahlung
- getalby.com Lightning Adresse
- Nostr-Schlüssel: DNS-basierten Internetkennungen - (NIP-05)
- Eine Alby Page, zum empfangen von Sats
- Speicher für eure Static Channel Backup (SCB)
- Verbunden mit einer Finanzierungsquelle oder AlbyHub
- Im Browser kann immer nur ein Account gleichzeitig eingeloggt sein
- Selbst wenn das Fenster geschlossen ist, bleibt man eingeloggt





Alby Account

Alby Account Dashboard

6 071 sats
€6.19

Receive Send Buy

Zitadelle is coming 🎉
20 Jul 25 - 17:02

Received
20 Jul 25 - 17:01 + 8 sats
€0.01

[["text/plain", "Webcam Theater - LNPeepShow"]]
19 Jul 25 - 20:28 - 2 sats
€0.01

Sent
18 Jul 25 - 18:54 - 21 sats
€0.03

zitadelle
17 Jul 25 - 20:34 + 10 sats
€0.02

ATM withdraw 422 sats for 0.4
13 May 25 - 19:27 + 422 sats
€0.40

Sent
4 May 25 - 09:44 - 2 sats
€0.01

Sent
28 Apr 25 - 17:58 - 21 sats
€0.02

Sent
28 Apr 25 - 17:58 - 21 sats
€0.02

Web Wallet
Wallet Configuration
Alby Account Settings
Subscription
Alby Guides
Help
Logout

Alby Account Dashboard

Settings

Alby Account
Email, password and avatar for your Alby Account

Subscription
Manage your Alby subscription

Wallet Configuration
Manage the wallet linked to your Alby Account

Notifications
Payment summaries and instant payment notifications

Lightning Address
Edit your Account's lightning address

Nostr Address
Set your unique Nostr identifier (NIP-05)

Alby Page
Customize your personal Alby page

Podcasting 2.0
Receive payments from your podcast audience

Developer Portal
API access token, webhooks OAuth, JS SDK docs

Alby Account Dashboard

Wallet Configuration

Alby Account

Linked Wallet

NWC wallet ⓘ

Unlink

Alby

Leave a tip for

Amount between 1 and 10,000,000 sats

100 \$0.12

1k ⚡ 5k ⚡ 10k ⚡ 25k ⚡

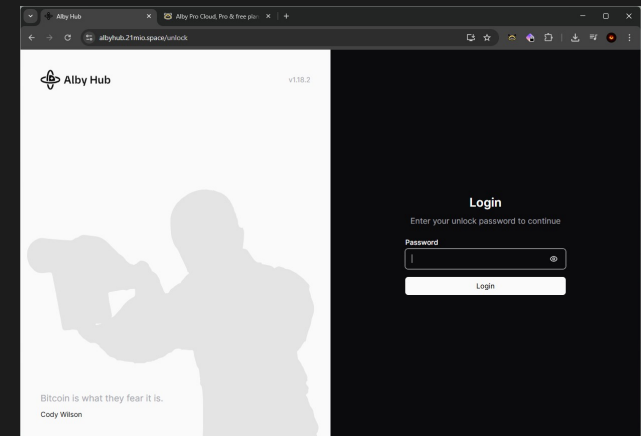
Message
optional

Send Satoshis

Wallets und Anwendungen mit NWC verbinden

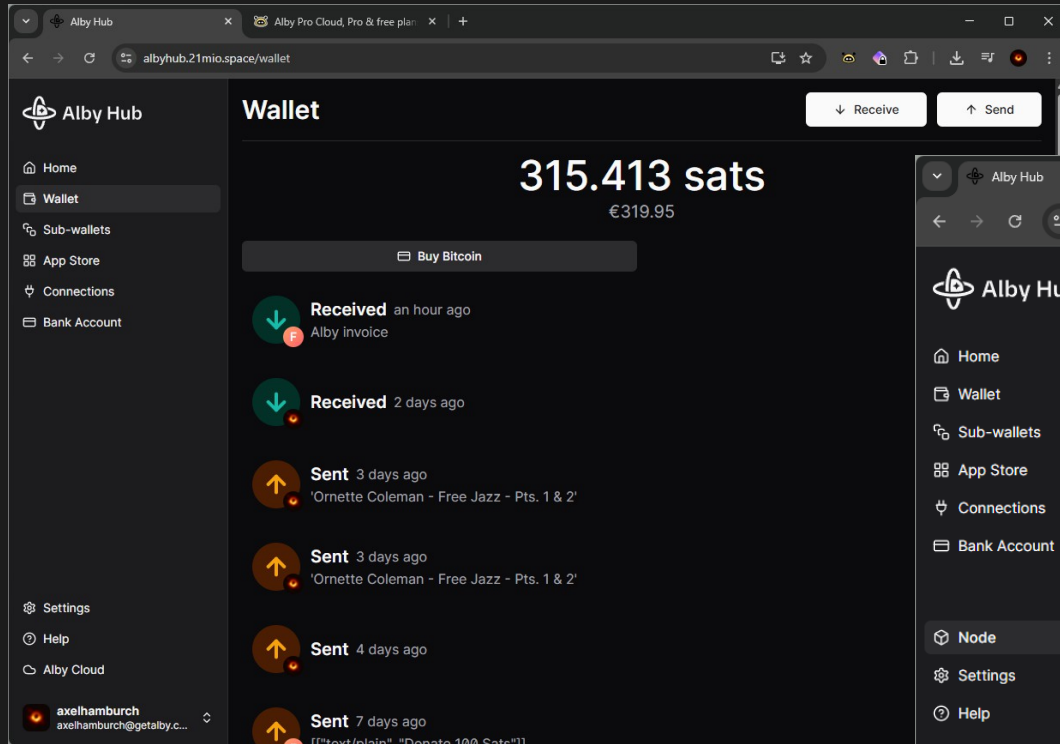
Alby Hub is a self-custodial, open source lightning wallet that connects to apps

- Eigene Hardware oder cloudbasiert
- Login über Webseite und Passwort
- Die Finanzierungsquelle ist der eigene Full Node oder ein Pruned Node, mit Channel zu einem Lightning Service Provider (LSP)
- Verknüpfbar mit einem Alby Account
- Node Wallet über NWC-Schlüssel, mit z.B. AlbyGo oder ZeusLN
- Subaccounts (nwc) für Familie, Freunde & Community-
- Subaccounts für experimentelle Wallets, wie Cashu.me und Minibits.cash
- Wallet für Nostr Clients wie amethyst.social oder damus.io
- Schedule payments mit Tools wie z.B. ZapPlanner
- Bitcoin Point-of-Sale (PoS) System mit BuzzPay
- Dedizierte Wallets für Webseite wie z.B. stacker.news
- und vieles mehr..





Wallet und Channels



The screenshot shows the Alby Hub Wallet interface. The top bar displays the Alby Hub logo and navigation links: Home, Wallet, Sub-wallets, App Store, Connections, and Bank Account. The main content area shows the wallet balance as 315.413 sats (€319.95). Below the balance, there is a 'Buy Bitcoin' button. The transaction history is listed below, showing several 'Received' and 'Sent' transactions. The 'Received' transactions are marked with a green arrow and the 'Sent' transactions with an orange arrow. The 'Sent' transactions are dated 3 days ago and 4 days ago, with a note 'Ornette Coleman - Free Jazz - Pts. 1 & 2'. The 'Received' transactions are dated 'an hour ago' and '2 days ago'. The bottom of the screen shows the user's name 'axelhamburch' and their email address 'axelhamburch@getalby.c...'. The interface is dark-themed with a sidebar on the left.

Alby Hub

Wallet

315.413 sats
€319.95

Buy Bitcoin

Received an hour ago
Alby invoice

Received 2 days ago

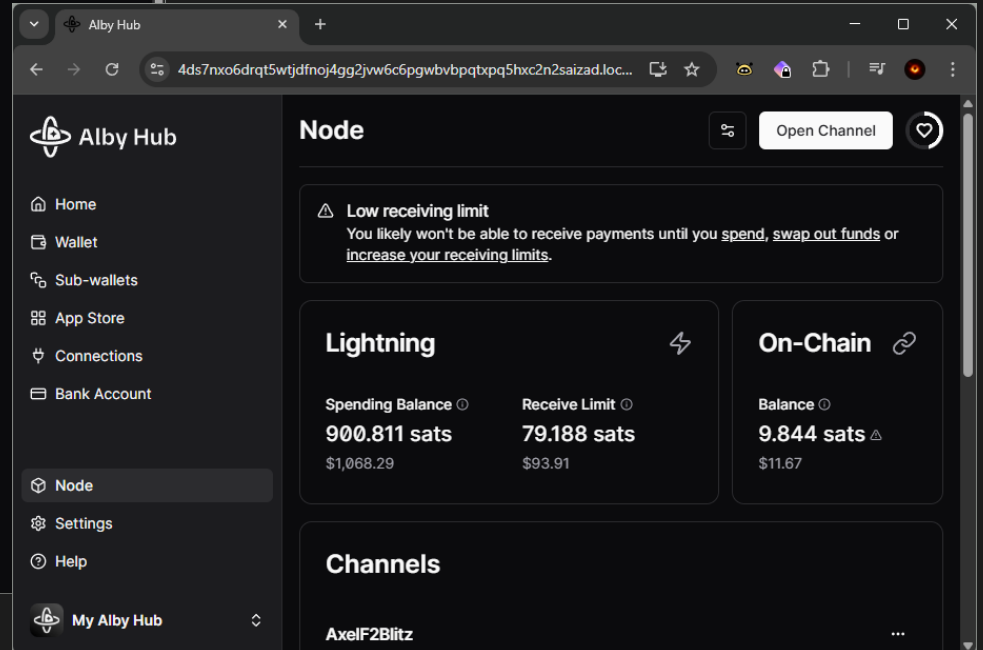
Sent 3 days ago
'Ornette Coleman - Free Jazz - Pts. 1 & 2'

Sent 3 days ago
'Ornette Coleman - Free Jazz - Pts. 1 & 2'

Sent 4 days ago

Sent 7 days ago
[["text/plain", "Donate 100 Sats"]]

axelhamburch
axelhamburch@getalby.c...



The screenshot shows the Alby Hub Node interface. The top bar displays the Alby Hub logo and navigation links: Home, Wallet, Sub-wallets, App Store, Connections, and Bank Account. The main content area shows the 'Node' status. A warning message indicates a 'Low receiving limit' and suggests actions to increase it. Below the warning, there are three sections: 'Lightning', 'On-Chain', and 'Channels'. The 'Lightning' section shows the 'Spending Balance' as 900.811 sats (\$1,068.29) and the 'Receive Limit' as 79.188 sats (\$93.91). The 'On-Chain' section shows the 'Balance' as 9.844 sats (\$11.67). The 'Channels' section shows a single channel named 'AxelF2Blitz'. The interface is dark-themed with a sidebar on the left.

Alby Hub

Node

Open Channel

Low receiving limit
You likely won't be able to receive payments until you spend, swap out funds or increase your receiving limits.

Lightning

Spending Balance ⓘ
900.811 sats
\$1,068.29

Receive Limit ⓘ
79.188 sats
\$93.91

On-Chain

Balance ⓘ
9.844 sats △
\$11.67

Channels

AxelF2Blitz



Sub-wallets

The screenshot shows the "Sub-wallets" page in the Alby Hub interface. The left sidebar contains navigation links: Home, Wallet, Sub-wallets (selected), App Store, Connections, and Bank Account. The main content area has a header "Sub-wallets" with a subtitle "Create sub-wallets for yourself, friends, family or coworkers" and a "New Sub-wallet" button. Below this are two summary cards: "Total Balance of Sub-wallets" showing 4.064 sats (€4.13) and "Active Sub-wallets" showing 2 / 3, with a "Fully backed" status. The "Managed Sub-wallets" section displays two sub-wallets: "axeltest" with a balance of 0 sats and "FunnyDummyTestDummy" with a balance of 4.064 sats. Both sub-wallets show "Last used: Never". The bottom of the sidebar shows the user's profile: "axelhamburch" with the email "axelhamburch@getalby.c...".

The screenshot shows the "Connect axeltest" page in the Alby Hub interface. The left sidebar is identical to the previous screenshot. The main content area has a header "Connect axeltest". Below the header is a red-bordered box with an "Important" warning: "For your security, these connection details are only visible now and cannot be retrieved later. If needed, you can store them in a password manager for future reference." The main content area is divided into two columns. The left column lists services to connect: "Alby Go", "Alby Account" (with a "Lightning Address" button), "Alby Browser Extension", "Other apps", and "Podcasting 2.0". A "Finish" button is at the bottom. The right column shows the "axeltest" sub-wallet with a balance of 0 sats and a "Top Up" button. Below this is the "Lightning address" section, which says "Create a lightning address for this sub-account" and displays the address "axeltest@getalby.com" with a "Create Lightning Address" button.



App Zap Planer

Alby Hub

Home

Wallet

Sub-wallets

App Store

Connections

Bank Account

Settings

Help

Alby Cloud

axelhamburch
axelhamburch@getalby.c...

App Store

Alby Extension

Wallet in your browser

Bitrefill

Live on bitcoin

Clams

Multi wallet accounting tool

Damus

iOS Nostr client

Lightning Messageboard

Paid messageboard widget for your website

NakaPay

Non-custodial Lightning payments for businesses via NWC

Nostler

Minimalistic, desktop Nostr client

Primal

Cross-platform social

Snort

Web Nostr client

Wherostr

Map of notes

ZapPlanner

Schedule payments

Zapstore

Discover great apps through your social connections

Alby Go

A simple mobile wallet that works great with Alby Hub

BTCPay Server

Bitcoin payment processor

Claude

AI assistant for conversations, analysis, and coding

Goose

Your local AI agent, automating engineering tasks seamlessly

LNbits

Wallet accounts system with extensions

Nostrcheck Server

Sovereign Nostr services

Nostur

Social media

Pull That Up Jamie!

Instantly pull up anything with private web search + AI

stacker news

Like Hacker News but with Bitcoin

YakiHonne

Your all in one nostr client

Zapple Pay

Zap from any client

ZEUS

A self-custodial Bitcoin wallet that puts you in control.

Amethyst

Android Nostr client

BuzzPay PoS

Receive-only PoS you can safely share with your employees

Submit your app

Alby Hub

Home

Wallet

Sub-wallets

App Store

Connections

Bank Account

Settings

Help

Alby Cloud

axelhamburch
axelhamburch@getalby.c...

Permissions

Edit

This app can:

Send payments

Budget Renewal: Never

Budget Amount: 42.000 sats (13.268 sats used)

Connection expiry

This app will never expire

Transactions

Sent

23 days ago

I love ❤️ Alby!

-3.300 sats

€3.35

Sent

2 months ago

I love ❤️ Alby!

-3.300 sats

€3.35

Sent

3 months ago

I love ❤️ Alby!

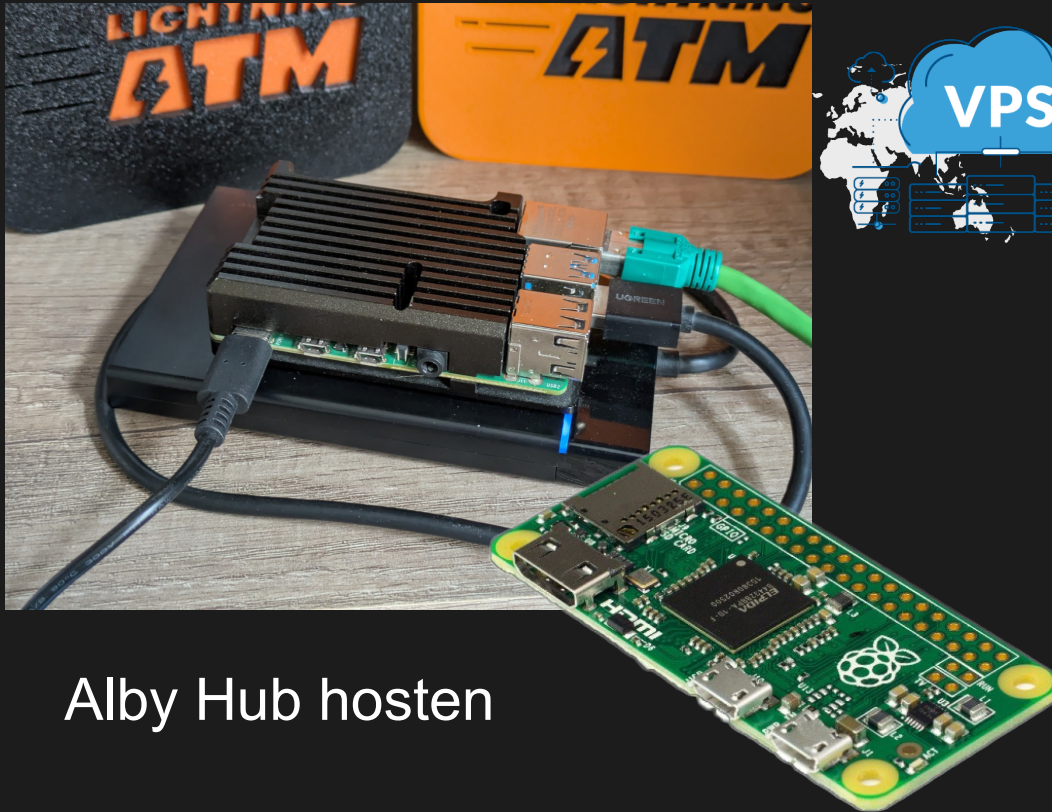
-3.300 sats

€3.35

Sent

4 months ago

-3.300 sats



Alby Hub hosten



Start in seconds with Alby Cloud

Run Alby Hub in a cloud with an instant setup and enjoy superior convenience and premium features.

Yearly -20%

Monthly

\$9.90 / month, paid annually

- ✓ Instant Alby Hub setup, within one minute
- ✓ Cloud hosting - online 24/7, always available
- ✓ Link to access your node anywhere and from any device
- ✓ Custom lightning and Nostr address
- ✓ Unlimited number of sub-wallets for your friends, family or co-workers
- ✓ Encrypted remote backups — migrate or recover with just your recovery phrase ⓘ
- ✓ Alby Benefits: exclusive partner deals
- ✓ Priority support
- ✓ Access to subscribers community
- ♥ Endless gratitude for supporting Alby's bitcoin open-source projects



Optionen:

 **Alby**

Products ▾ Pricing AI Businesses ▾ Creators ▾ Developers Blog [Log In](#)

Do It Yourself

Install Alby Hub on your own device or connect another wallet.

Free

Key features:

- ✓ Self-custodial lightning wallet
- ✓ Create up to 3 sub-wallets
- ✓ Connect to dozens of bitcoin apps
- ✓ Lightning and Nostr addres
- ✓ Integrated LSP services
- ✓ Credit card and SEPA top-ups
- ✓ Mobile app & browser extension

[Do It Yourself](#)

Pro

Self-host Alby Hub, support Alby and enjoy additional perks.

\$3.00

/ month, annually

Everything in Do It Yourself, plus:

- ✓ Unlimited number of sub-wallets
- ✓ Encrypted remote backups
- ✓ Custom LN and Nostr address
- ✓ Priority support
- ✓ Exclusive partners' deals & benefits
- ✓ Access to subscribers community
- ♥ Gratitude for supporting Alby

[Start with Pro](#)

Pro Cloud

Run Alby Hub in the a cloud and enjoy superior convenience.

\$9.90

/ month, annually

Everything in Pro, plus:

- ✓ Alby Cloud hosting - online 24/7
- ✓ Link to access your node anywhere
- ✓ 30-day refund guarantee
- ♥ Endless gratitude for supporting us

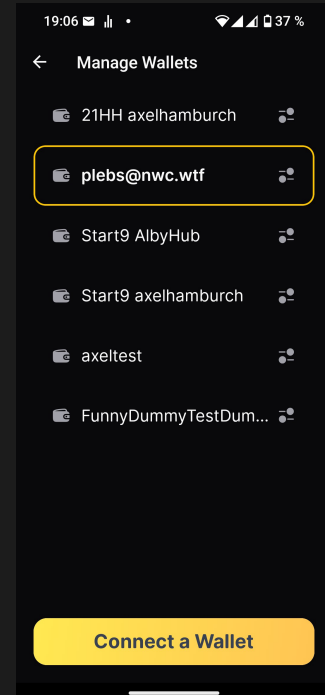
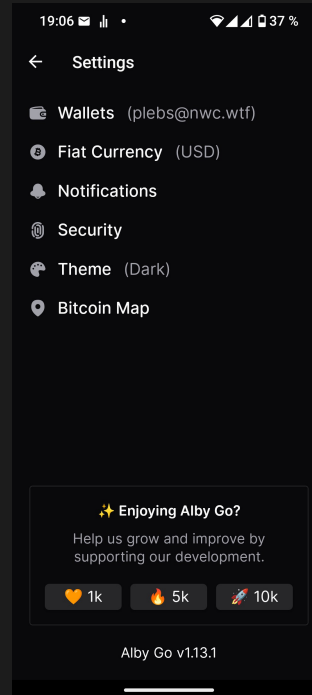
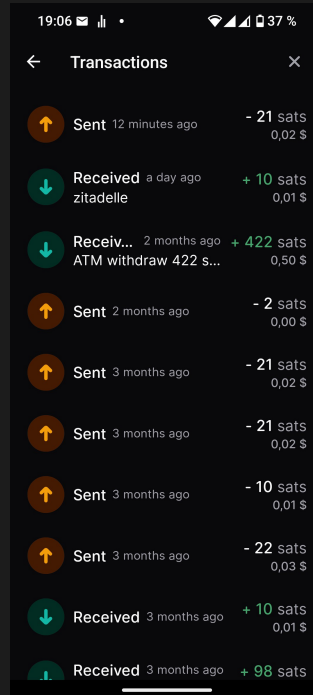
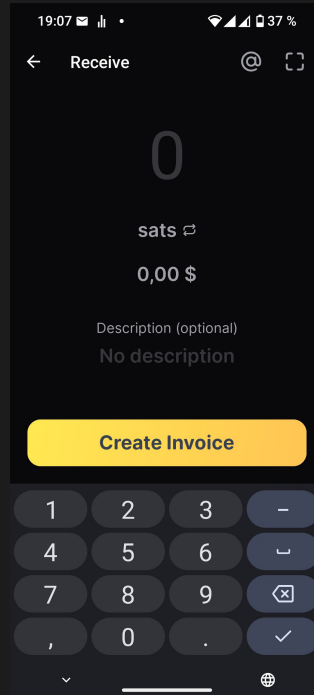
[Start with Pro Cloud](#)



Alby Go



The easiest mobile app to use bitcoin on the Go!
Lightning Wallet App. Es können mehrere NWC-Links hinterlegt werden.



Nostr Wallet Connect



Nostr Wallet Connect (NWC) ist eine Technologie, die auf dem Nostr-Protokoll basiert. Sie ermöglicht es, Softwareanwendungen mit einer Finanzierungsquelle (Lightning-Wallets) über ein Nostr-Relay zu verbinden. Dabei wird ein spezieller NWC-Link verwendet, der die Kommunikation und Authentifizierung zwischen der Anwendung und der Wallet ermöglicht.



```
nostr+walletconnect://b889ff5b15...558e9d4?relay=wss://relay.getalby.com/  
v1&secret=71a8c14c1407c1...73b5100e4f3c
```

- nostr+walletconnect:// definiert **das Protokoll**
- Es folgt der hex-codierte **Public Key des Wallet**. Er ist für jede Verbindung einzigartig.
- Als nächstes kommen die Anforderungsparameter:
 - > relay: Die **URL des Relays**, über dass das Wallet verbunden ist und auf Ereignisse wartet.
Hier eine WebSocket Secure (wss) Verbindung.
 - > secret: Ein 32-Byte langer, zufällig generierter hexadezimal kodierter String, als **Geheimnis**.
Dieser wird verwendet, um Ereignisse zu signieren und Payloads zu verschlüsseln.
- Der Wallet-Server (z.B. Alby Hub) erstellt den NWC-Link für beide Teilnehmer
- Der Server merkt sich nur den Public Key und die Parameter (Betrag, Lebenszeit, etc.)

Nostr Wallet Connect



Warum NWC ?



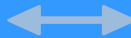
Cleartnet (WAN)

User APP
Receive / Send

Service / Webside Server

User/Custody Node

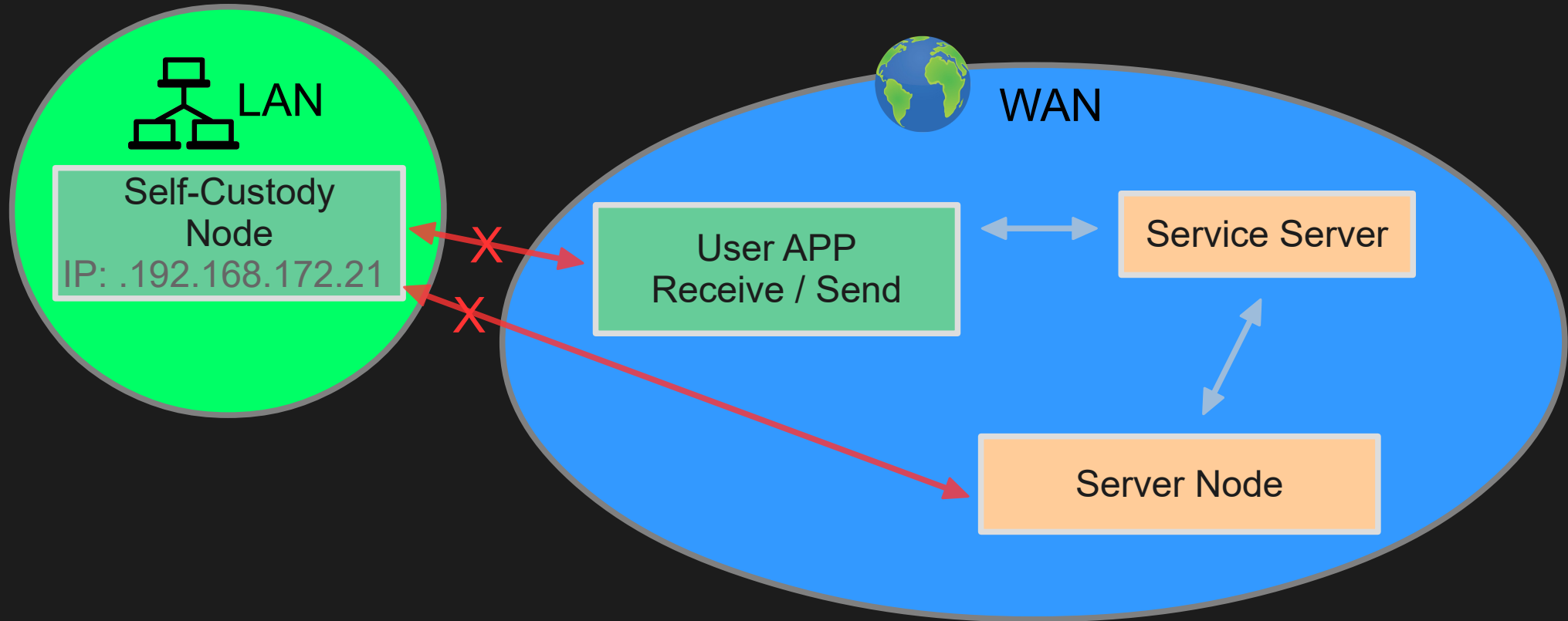
Server Node



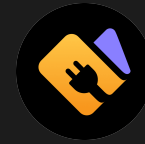
Nostr Wallet Connect



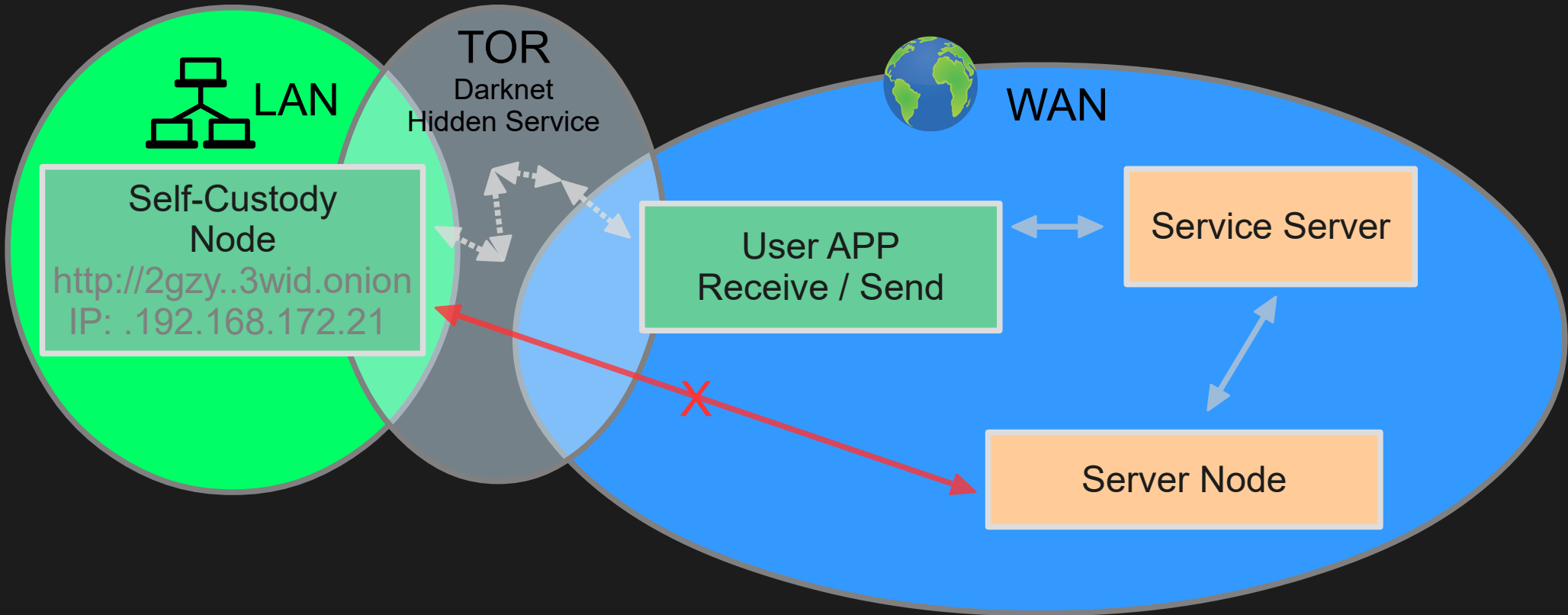
Warum NWC ?



Nostr Wallet Connect



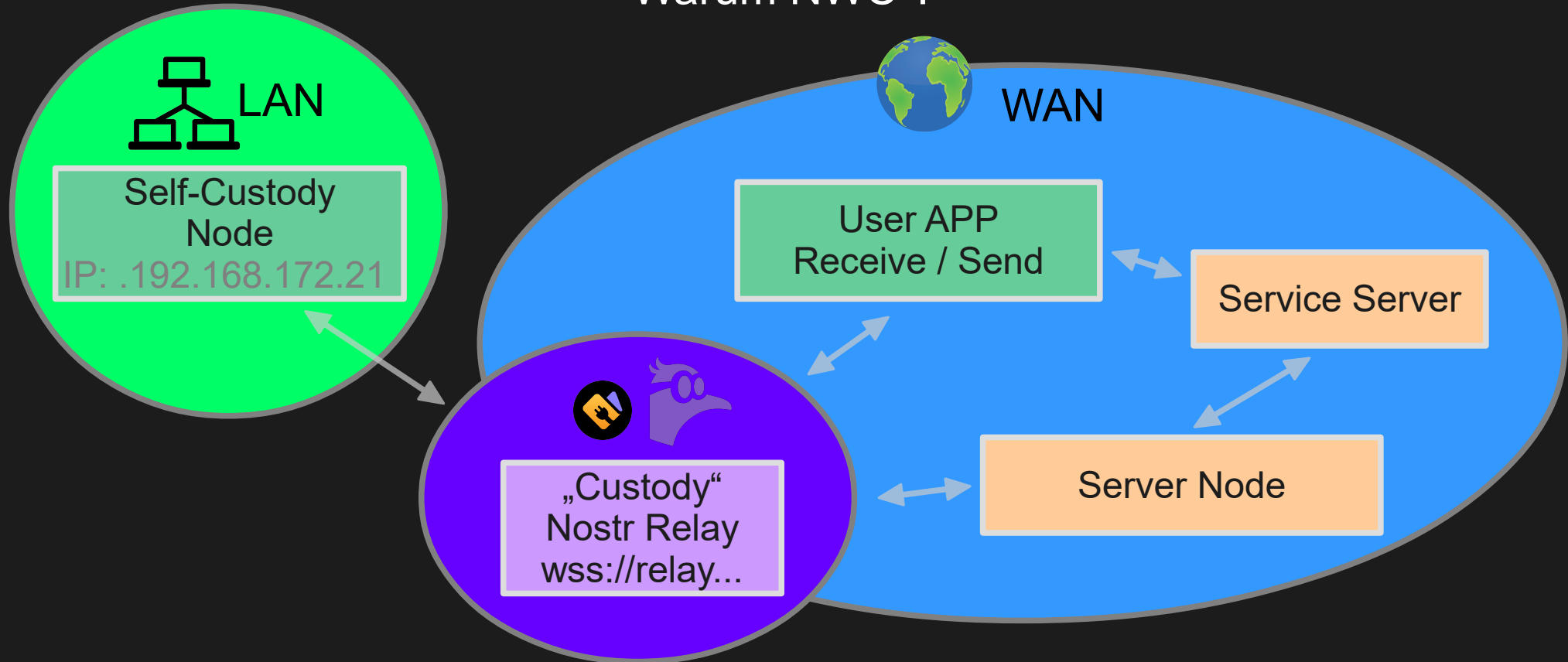
Warum NWC ?



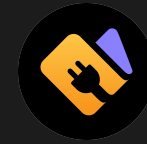
Nostr Wallet Connect



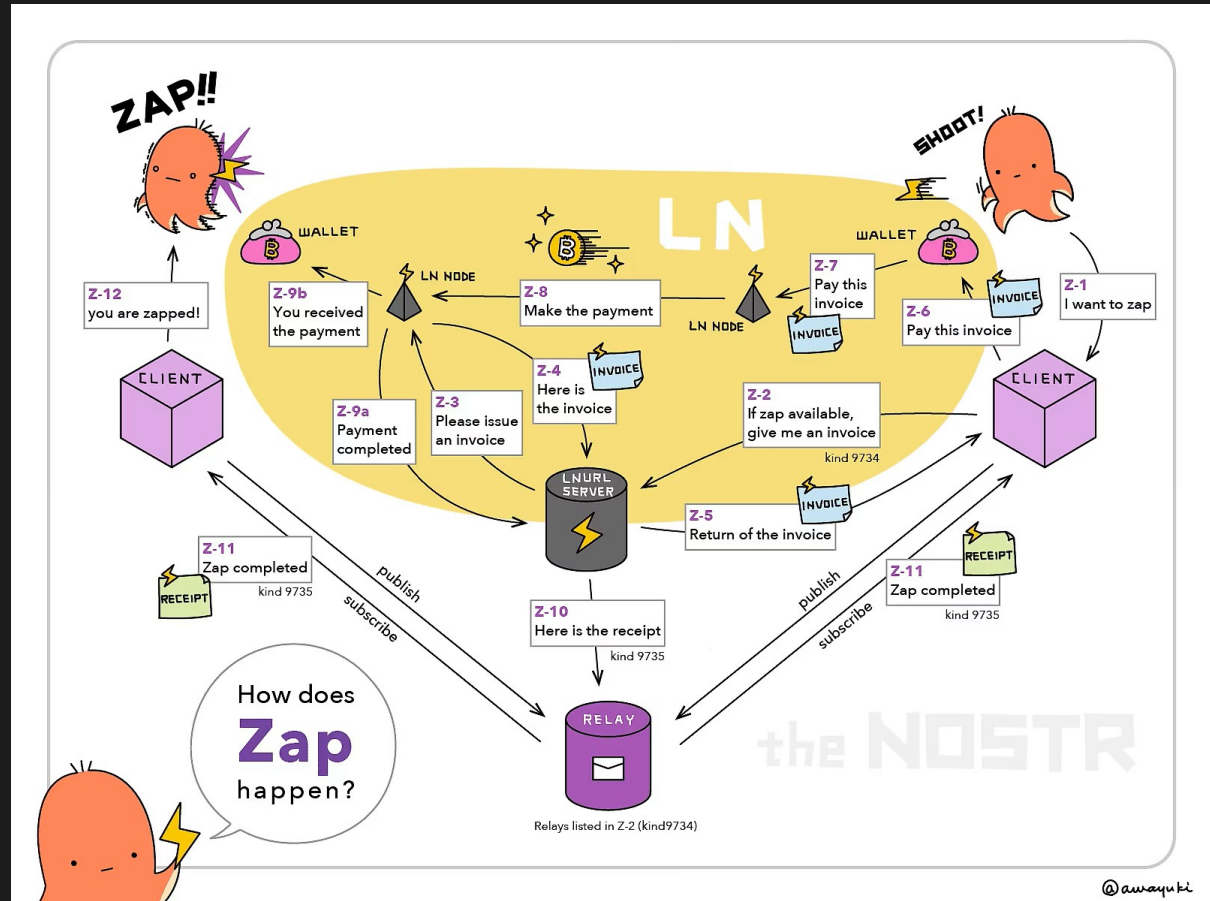
Warum NWC ?



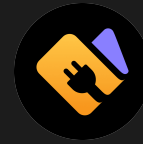
Nostr Wallet Connect



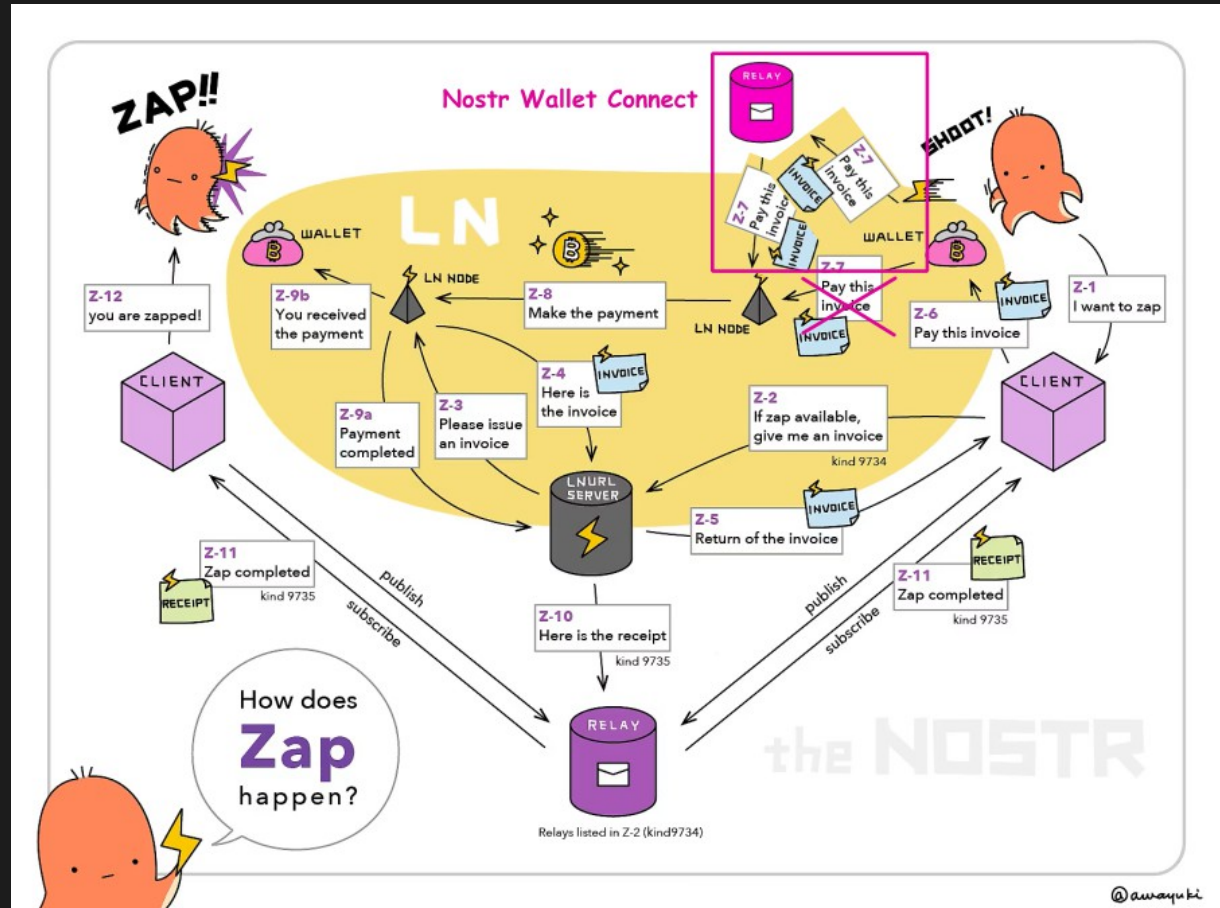
Beispiel: Ablauf eines
Nostr Lightning Zaps



Nostr Wallet Connect



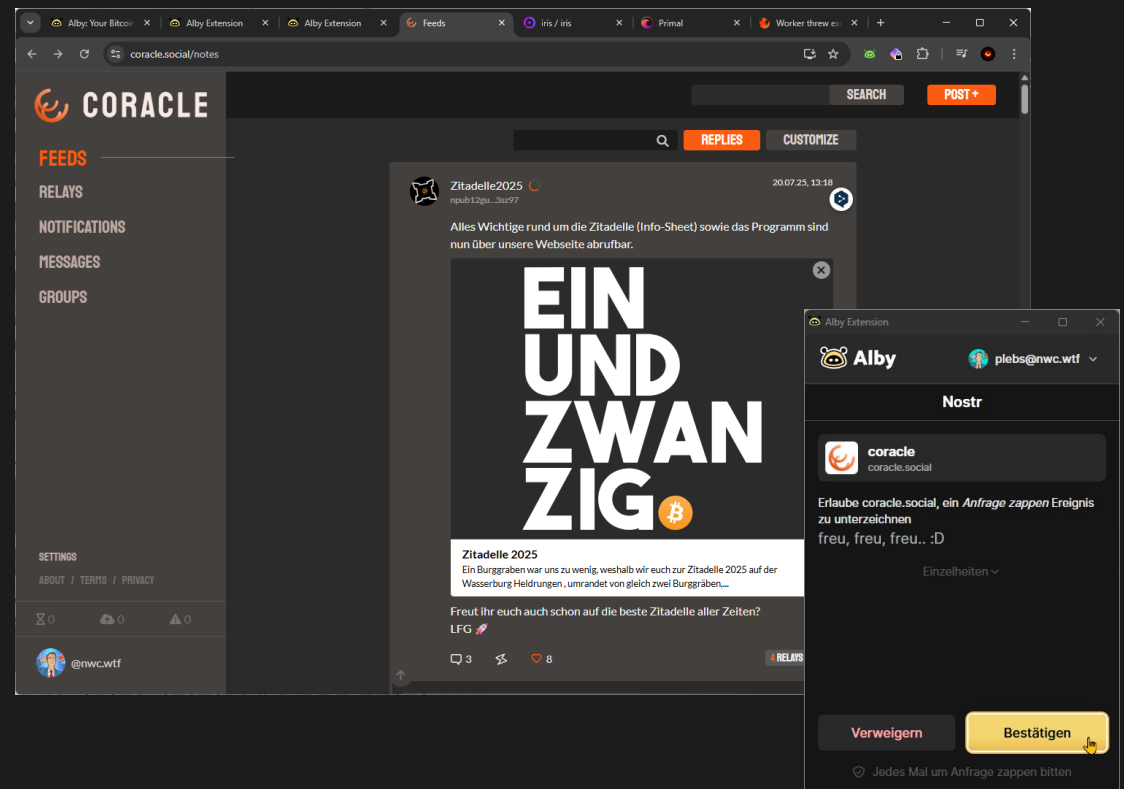
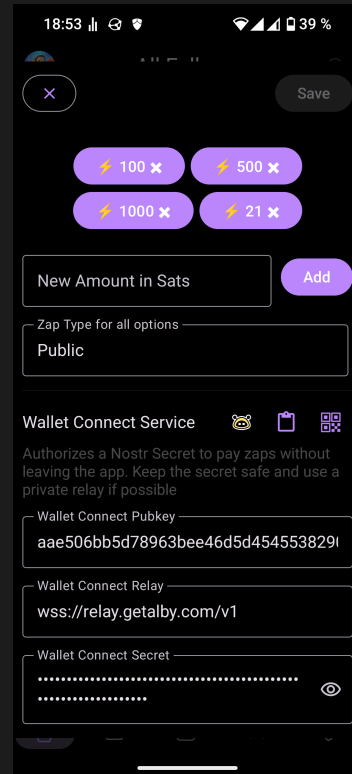
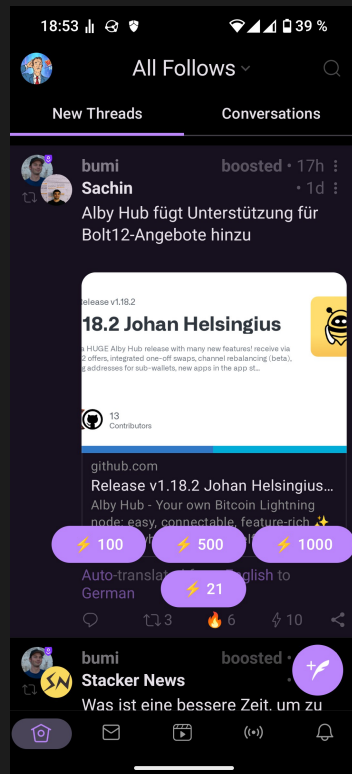
Nostr Wallet Connect
verbindet
Wallet und Node





Nostr Wallet Connect

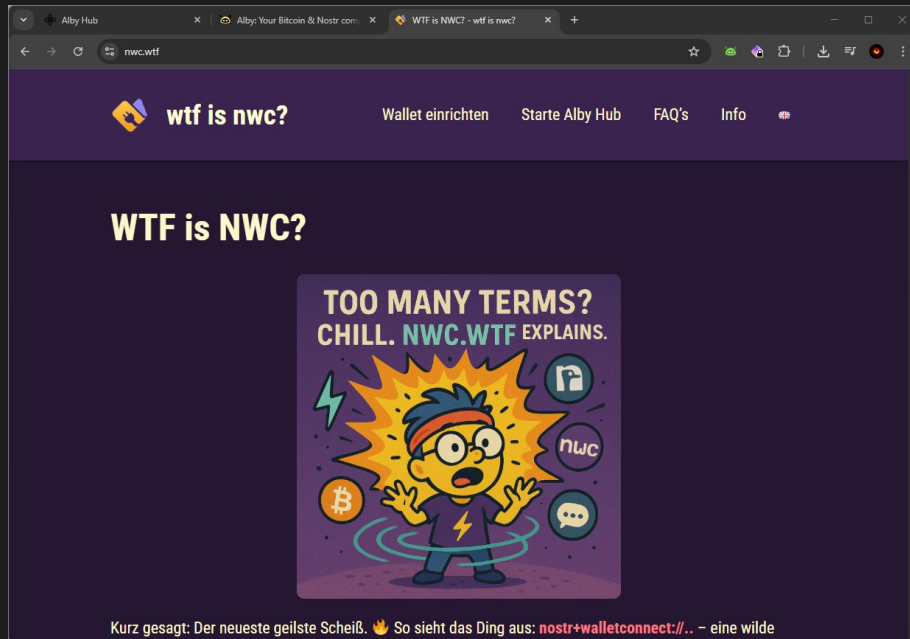
Beispiele Nostr Client Amethyst und Coracle



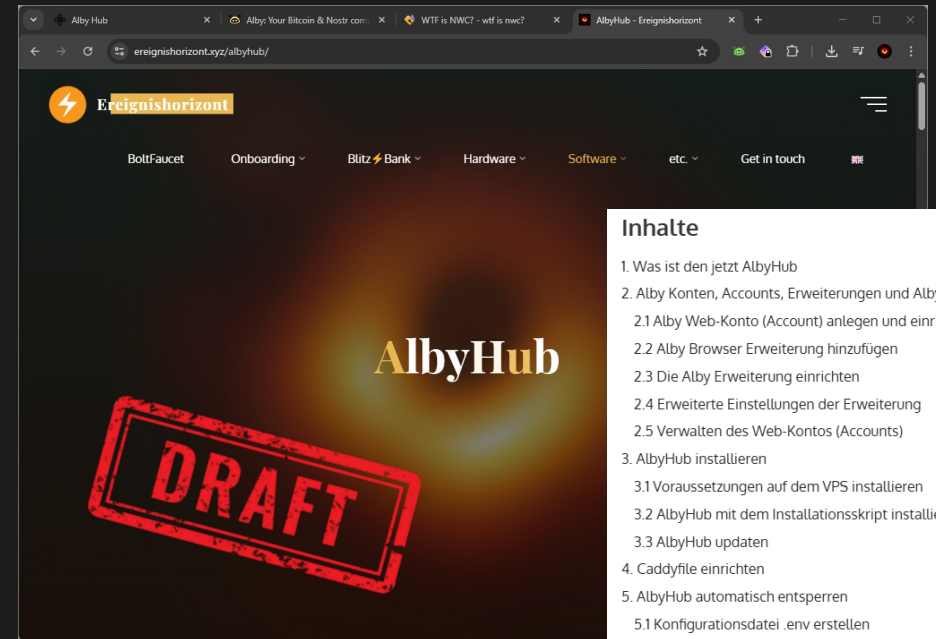


Weiter Infos

nwc.wtf



ereignishorizont.xyz/albyhub



Inhalte

1. Was ist den jetzt AlbyHub
2. Alby Konten, Accounts, Erweiterungen und AlbyHub
 - 2.1 Alby Web-Konto (Account) anlegen und einrichten
 - 2.2 Alby Browser Erweiterung hinzufügen
 - 2.3 Die Alby Erweiterung einrichten
 - 2.4 Erweiterte Einstellungen der Erweiterung
 - 2.5 Verwalten des Web-Kontos (Accounts)
3. AlbyHub installieren
 - 3.1 Voraussetzungen auf dem VPS installieren
 - 3.2 AlbyHub mit dem Installationskript installieren
 - 3.3 AlbyHub updaten
4. Caddyfile einrichten
5. AlbyHub automatisch entsperren
 - 5.1 Konfigurationsdatei .env erstellen
 - 5.2 Die .env Datei dem System bekannt machen
 - 5.3 Phoenix API-Key anzeigen lassen

Kontakt: @axelhamburch



Alby & NWC - Zitadelle 2025

Vielen Dank!

