



# Lightning & Stacks

Lightning BTC Payouts for Stacking Pools by  
Metastack Data GmbH



# Current Situation

## STX Payouts

One of the most popular stacking pools is managed by Friedger. In order to be able to serve small delegations, the payouts are made via STX (low onchain fees).

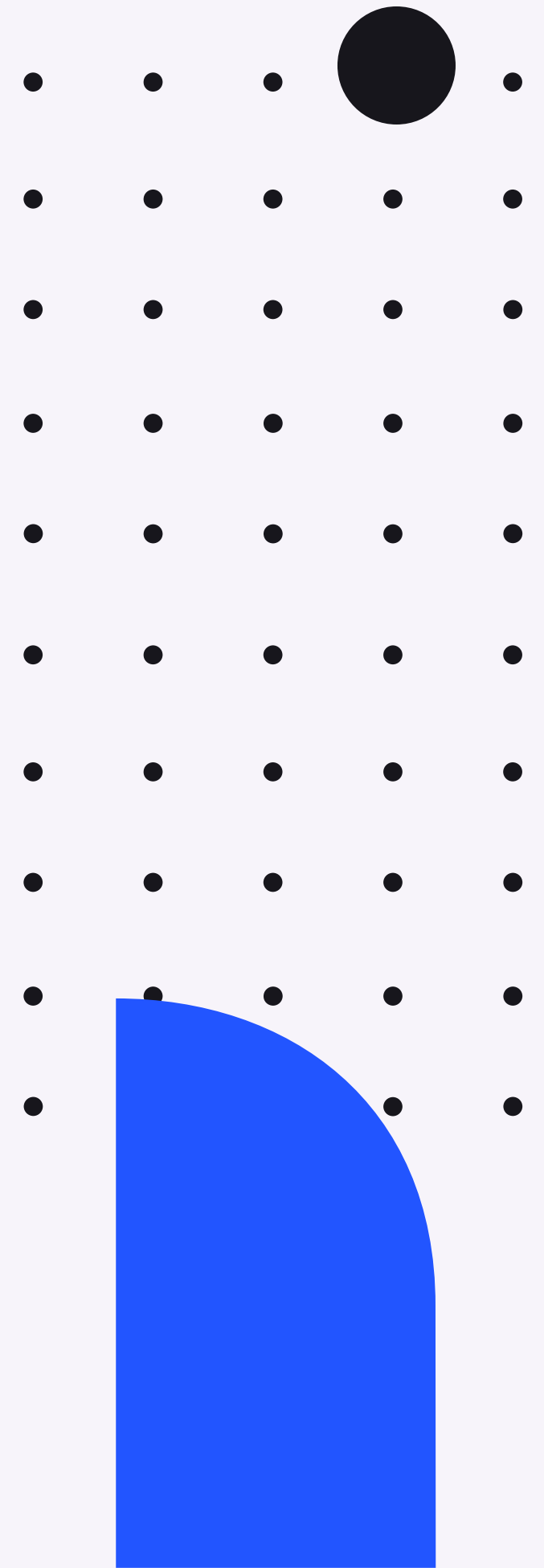
## BTC Payouts

Pools like Staked process the payouts directly in BTC. Depending on the mempool, however, high fees are incurred and reduce the stacking yield.

## Disadvantages

STX Payouts: Intransparent STX/BTC exchange rates and fees

BTC Payouts: High onchain fees especially during mempool congestions



# What we propose

## BTC Payouts

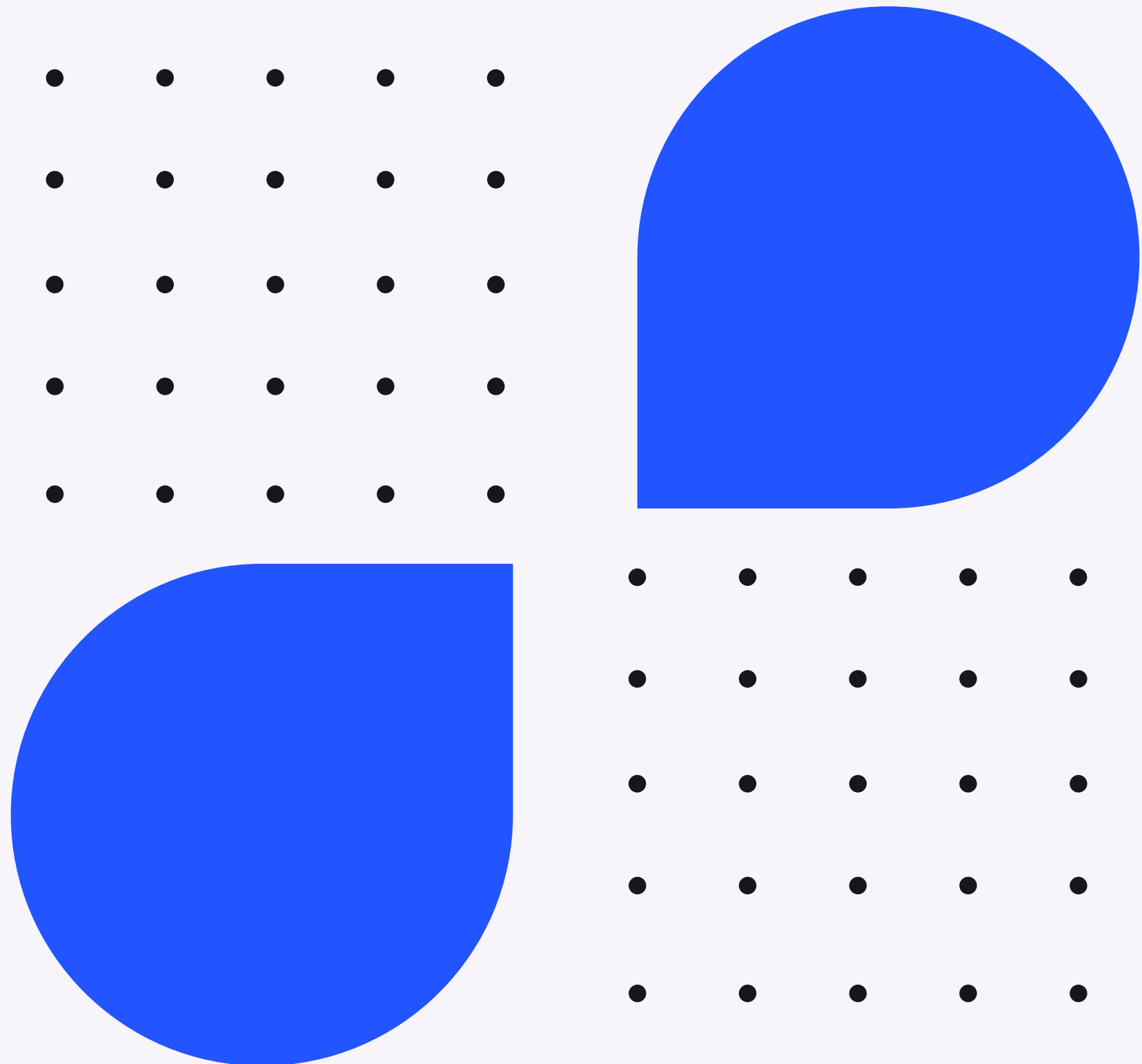
Enable cheap BTC payouts for STX delegations.  
Minimum 2000 STX.

## 0% Commission

Strengthen the Stacks ecosystem - no comission  
for poolmembers.

## Low tx Fee

Payouts via the lightning network will ensure  
the lowest possible BTC tx fee.



# Challenges

## Maintained Lightning Node

LN Payouts via keysend will fail if the receiver/peer is offline.

## No route or inbound liquidity

The peer has to have enough inbound liquidity in a routable channel.

## Expensive inbound liquidity

Even lightning payouts can get quite expensive if a peer has his inbound liquidity in a (bought) expensive channel.





## What we get...

We want to strengthen the Stacks ecosystem and organise a free stacking pool. Furthermore, we want to build up our lightning node reputation.

In this regard, we request that each pool member opens a In-channel to our node.

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### Step 1

Register on  
Instacking.com

2

### Step 2

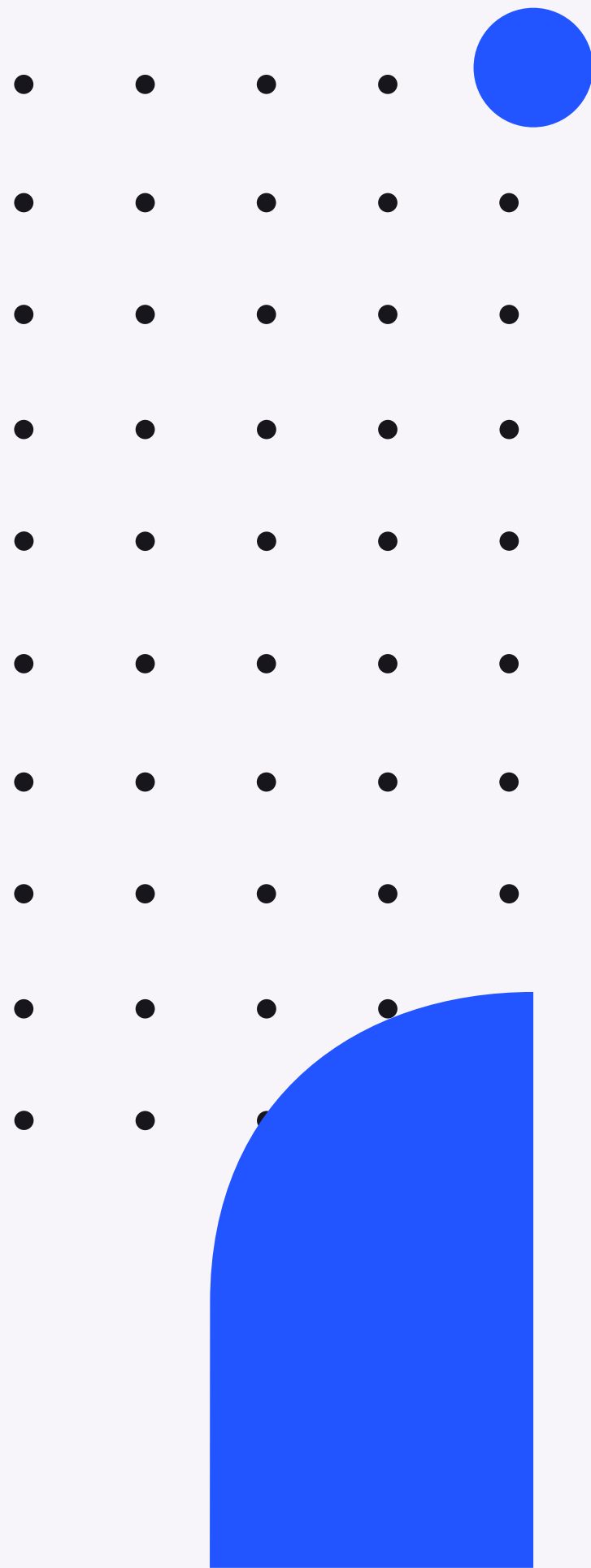
STX delegation

3

### Step 3

Open a channel to our  
Lightning node





# Strategy



## Payouts

0% comission with the lowest possible BTC transaction fees.

## Inbound Liquidity

If a peer/poolmember is offline or hasn't enough inbound liquidity we settle onchain.

## LN Channels

To increase our lightning node reputation we only accept channels > 2.5M sats capacity.

## Stacking address

We only use one non-custodial stacking address for all stacking cycles.

1

## LN Routing Node

Live (Top 250)

2

## Web appearance

Live (metastackdata.com)

3

## Pool and member area setup

Q3 2022 (Instacking.com)

4

## Go-Live

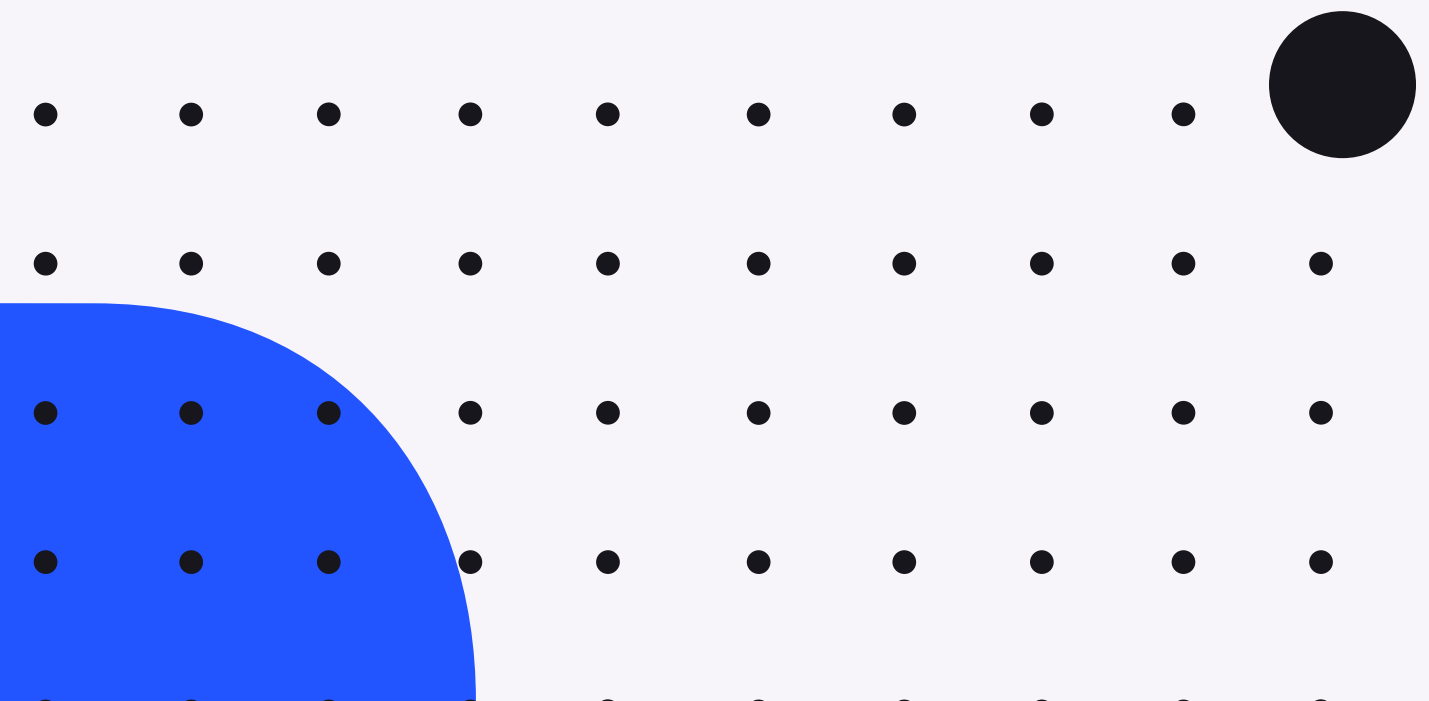
Q4 2022

## Past & Future



Metastack Data operates staking and mining pools with internal funds only.

To further support the Stacks network, we are looking forward to open our gates for non-custodial delegations.



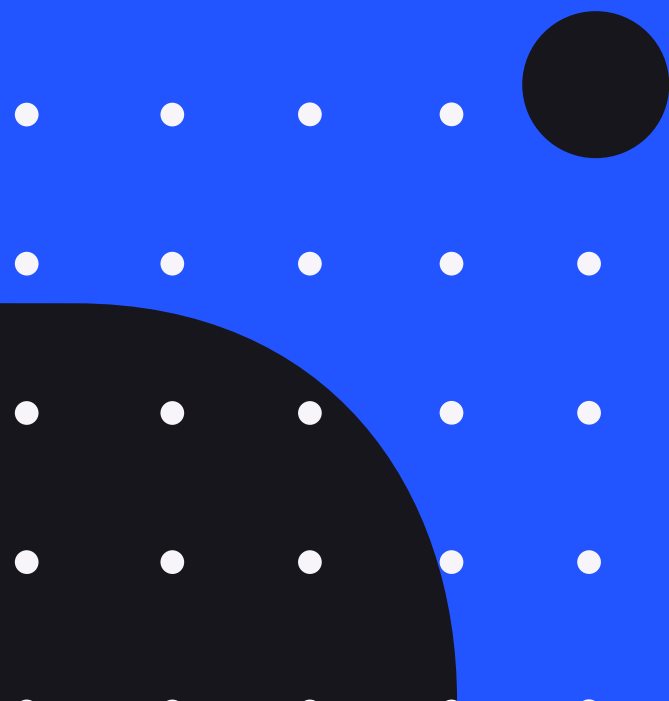
"I don't want to  
maintain a  
lightning node.."

## Recieve payments without a ln-node

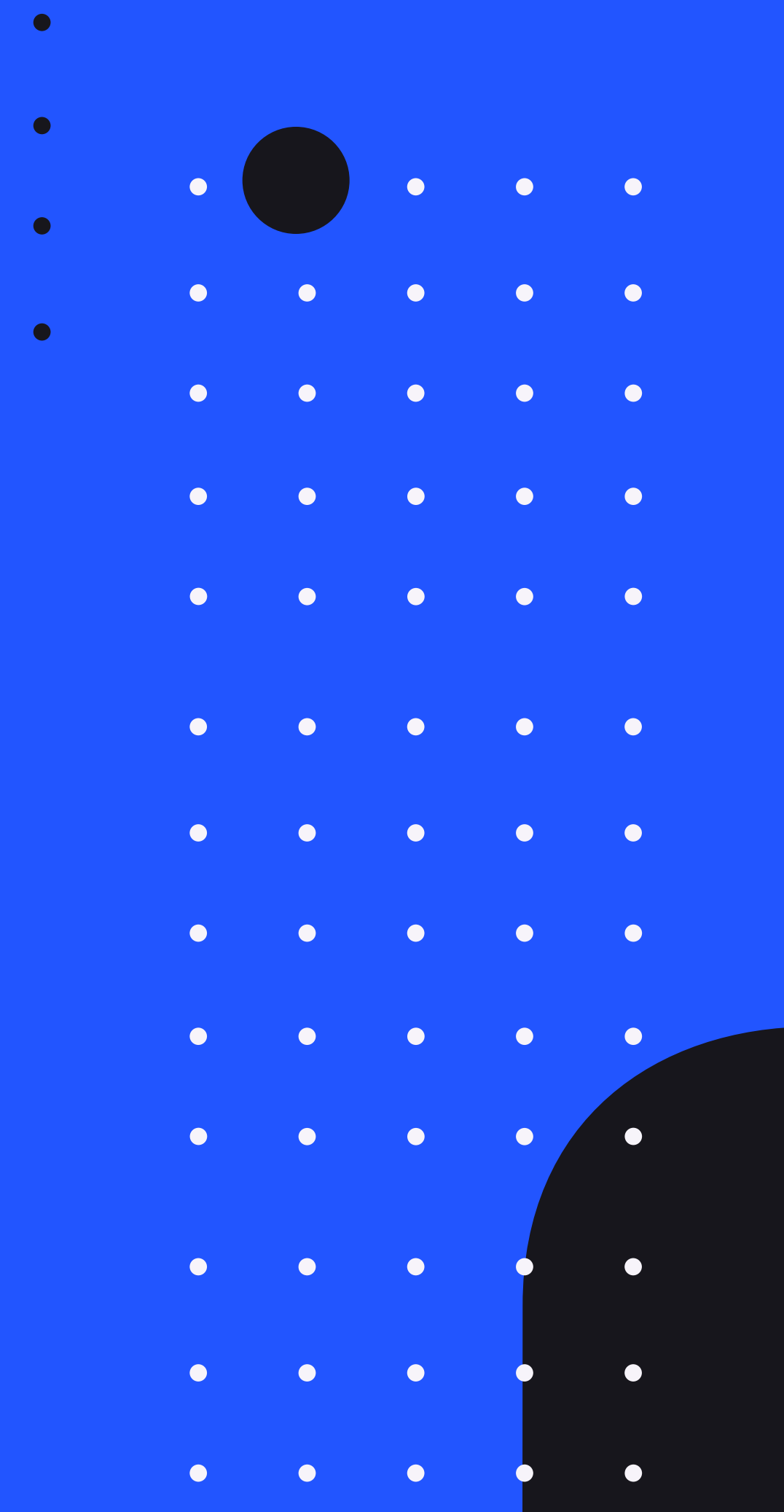
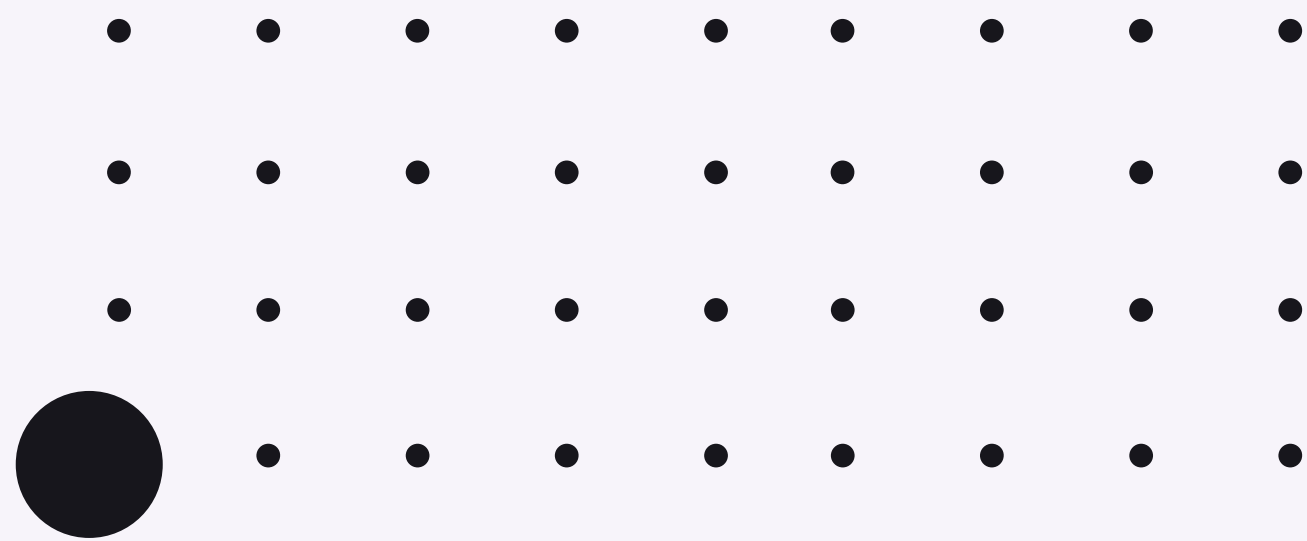
Participants without a lightning node can use our service as well. All they need is a lightning wallet like WalletOfSatoshi or Coinos.

## 3% service fee

Those pool members who won't maintain a lightning channel to our node will have to pay a 3% service fee.







# Contact

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