



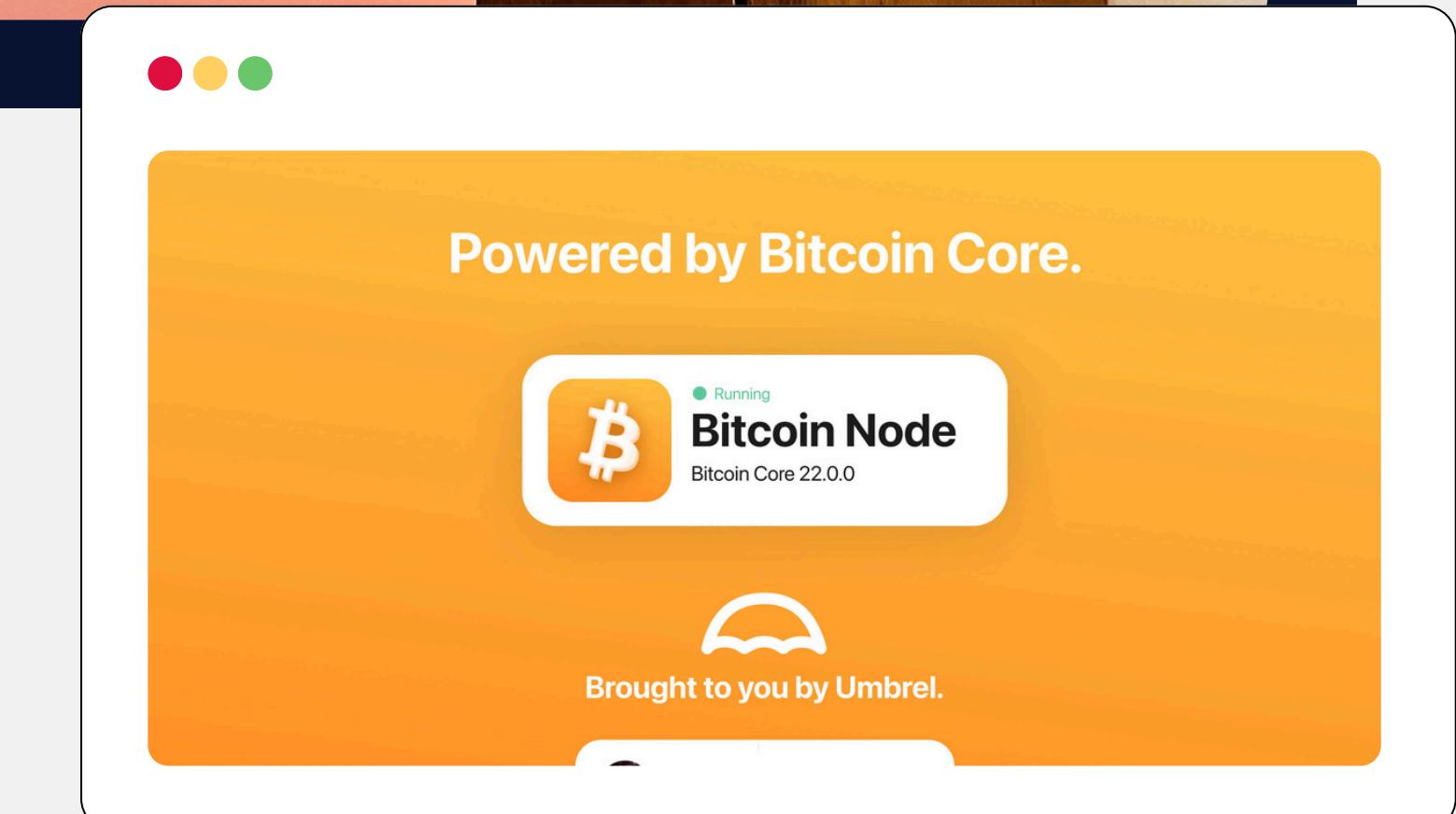
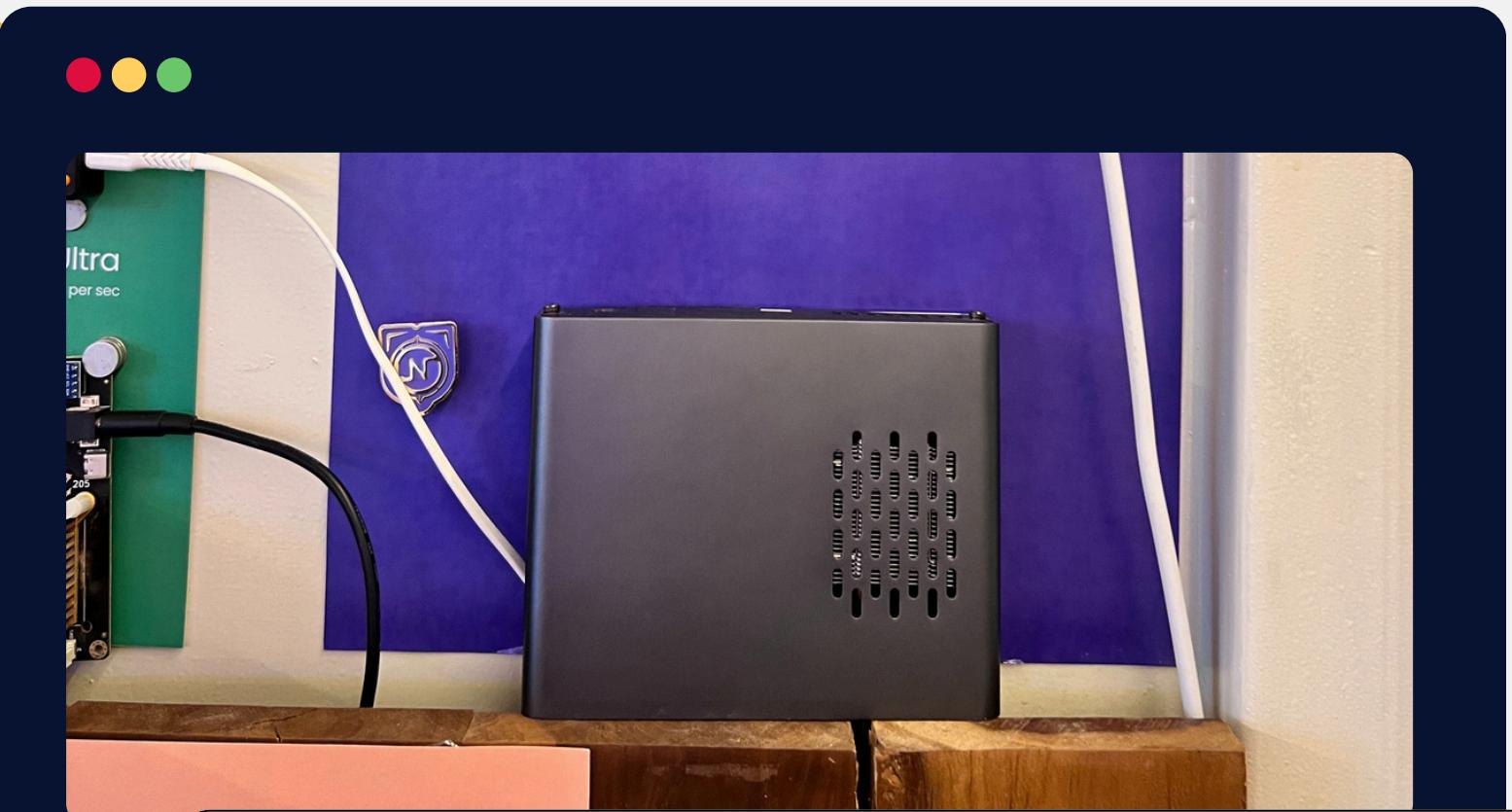
How to Run a Bitcoin Node



What is a Bitcoin Node?



- A Bitcoin node is a computer running Bitcoin software (Core or Knots)
- Stores and validates the entire timechain.
- Enforce Bitcoin's rules
- Propagate data to other nodes
- Maintain a complete copy of the timechain
- Full nodes vs. pruned nodes



Why Run a Full Bitcoin Node?

- **Privacy:** Verify transactions yourself, avoiding reliance on third-party services.
- **Security:** Ensure your transactions follow Bitcoin's rules.
- **Network Support:** Strengthen Bitcoin's decentralization by adding resilience.
- **Sovereignty:** Take control and "be your own bank."
- **Future-Proofing:** Enable advanced features like Lightning Network



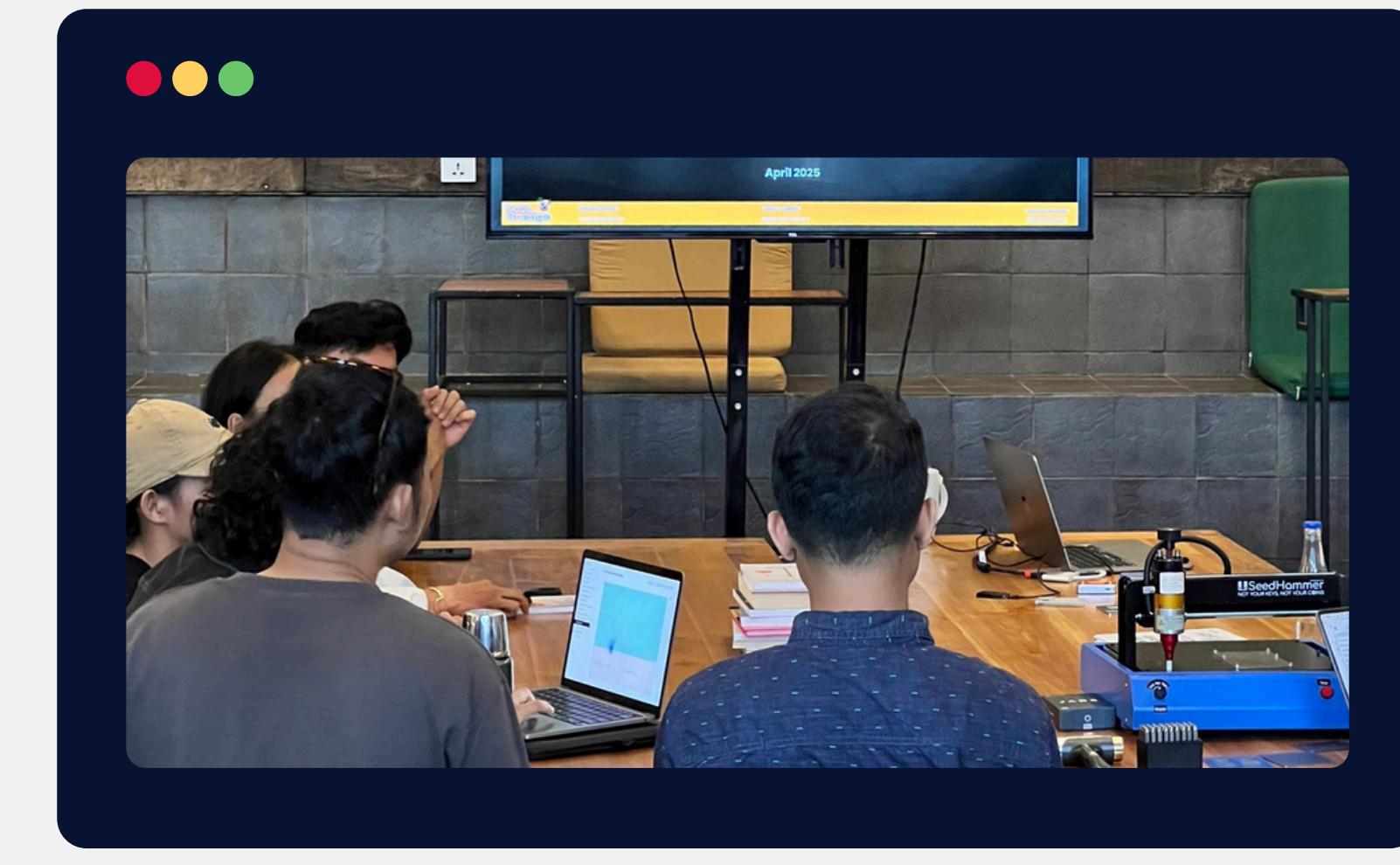
"If you had an energy-backed protocol,
decentralized and secure... prices would fall
forever"

- Jeff Booth



Benefits of Running a Full Node

- **Transaction Verification:** Independently confirm your Bitcoin balances and transactions.
- **Decentralization and security:** More nodes make Bitcoin harder to censor or attack.

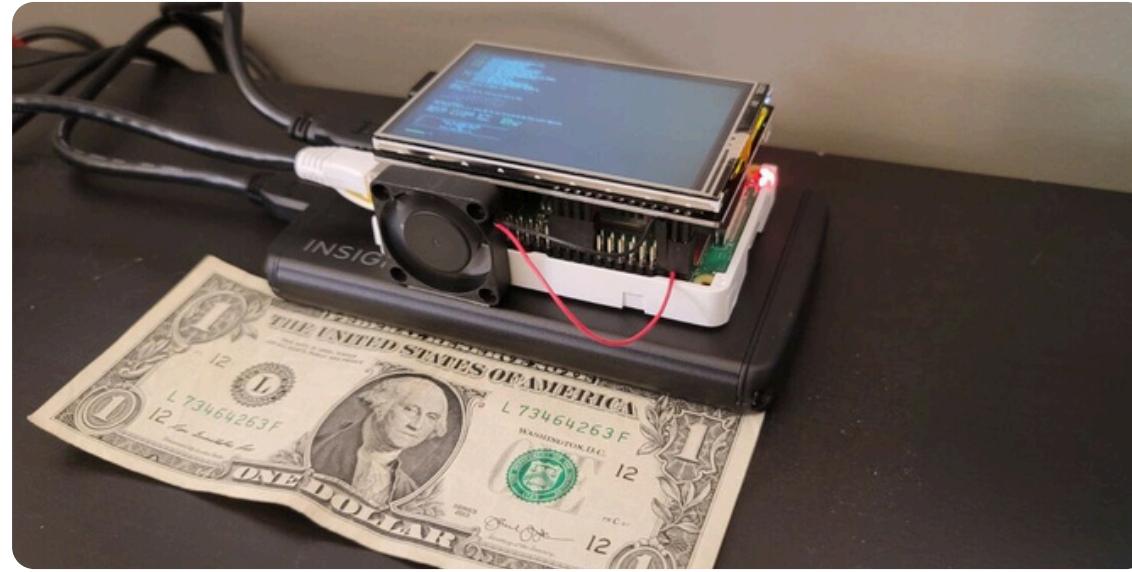


- **Learning Opportunity:** Gain hands-on understanding of Bitcoin's inner workings.
- **Lightning Network Access:** Run a Lightning node for fast, low-cost transactions

Introduction to Umbrel



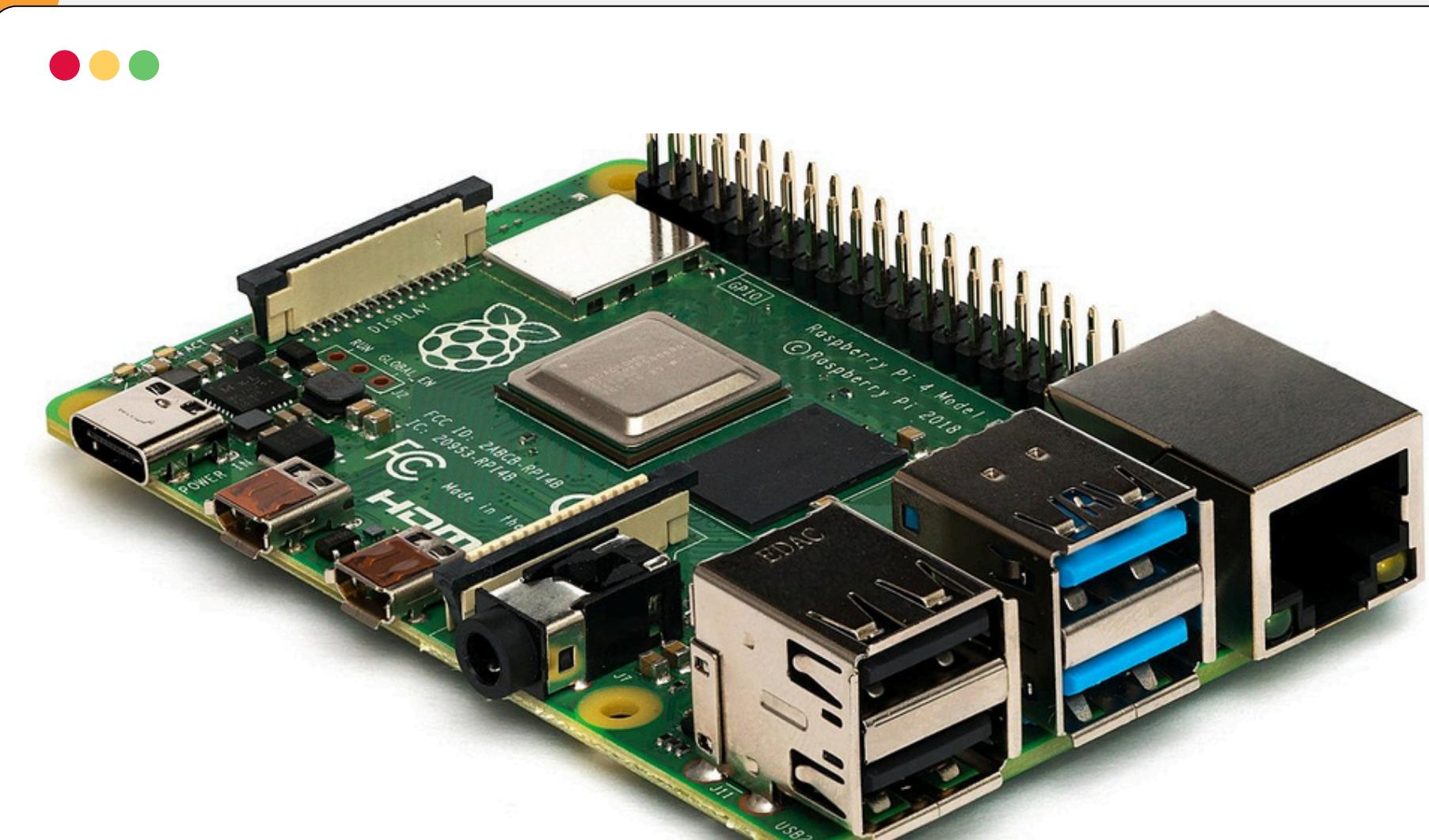
- **Umbrel** is a user-friendly operating system for running a Bitcoin node.
- Runs on **Raspberry Pi**, Linux, or pre-built Umbrel Home devices.
- Designed for **beginners**: plug-and-play with minimal setup.



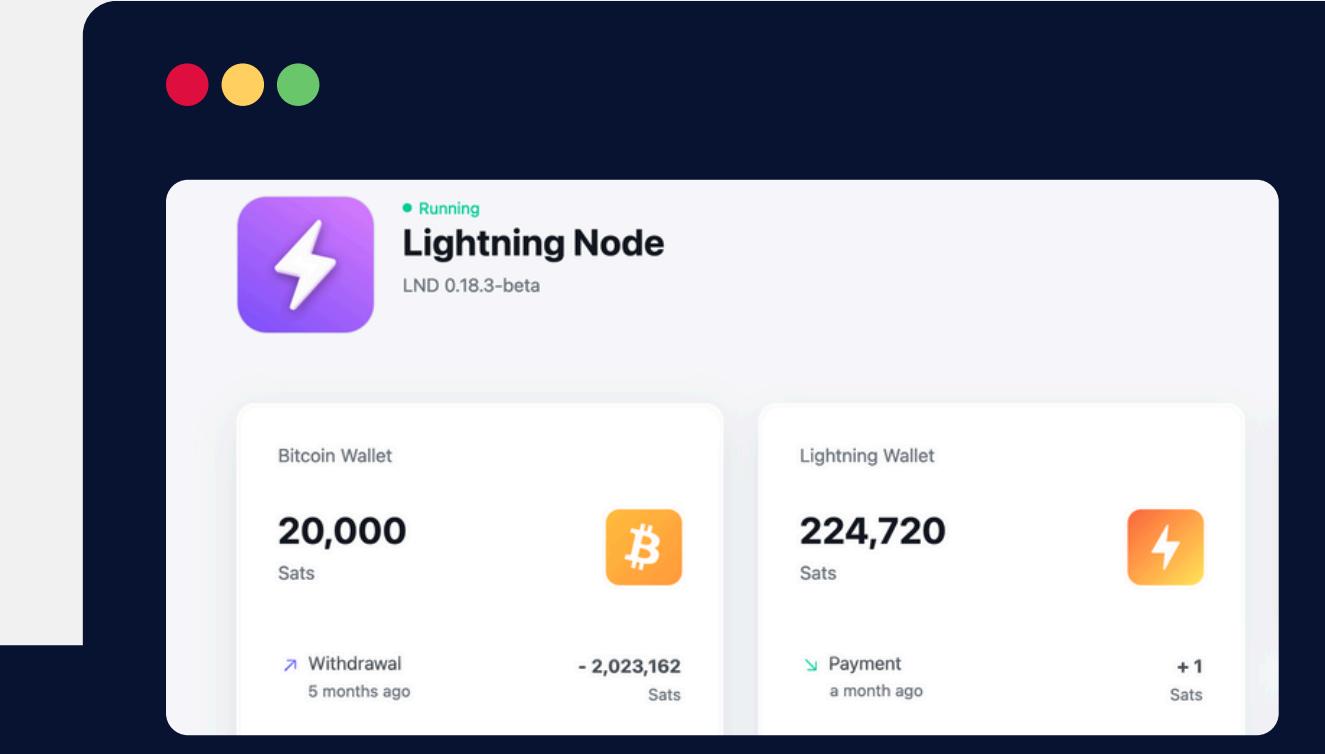
Hardware requirements



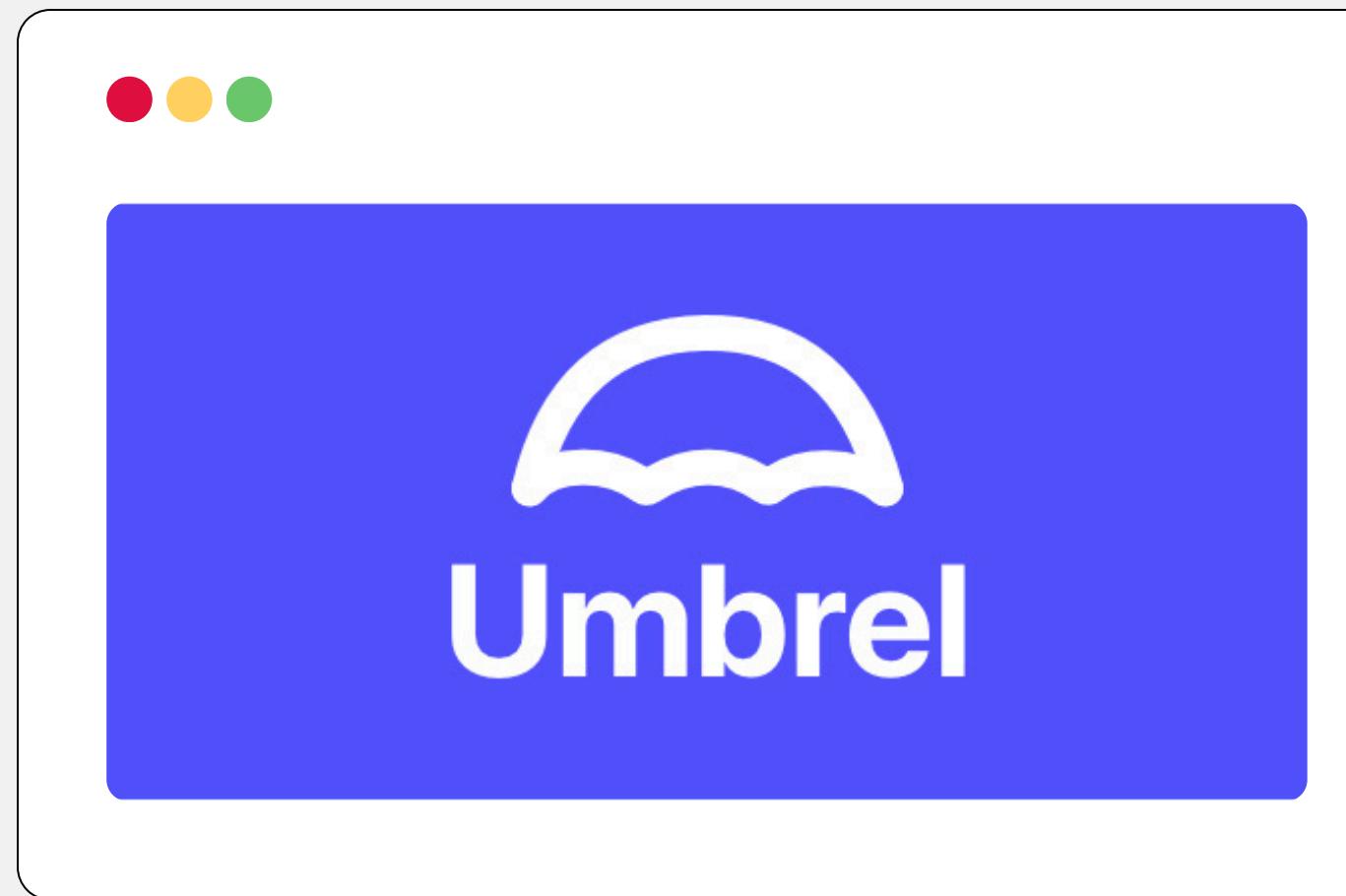
- **Raspberry Pi** 4 or 5 (8GB)
- **Storage:** 1TB+ SSD
- **MicroSD Card:** 16GB+ for Umbrel OS.
- **Accessories:** cables USB-to-SATA cable, Ethernet cable, power supply.
- **Cost:** ~\$200-\$300 for DIY setup.

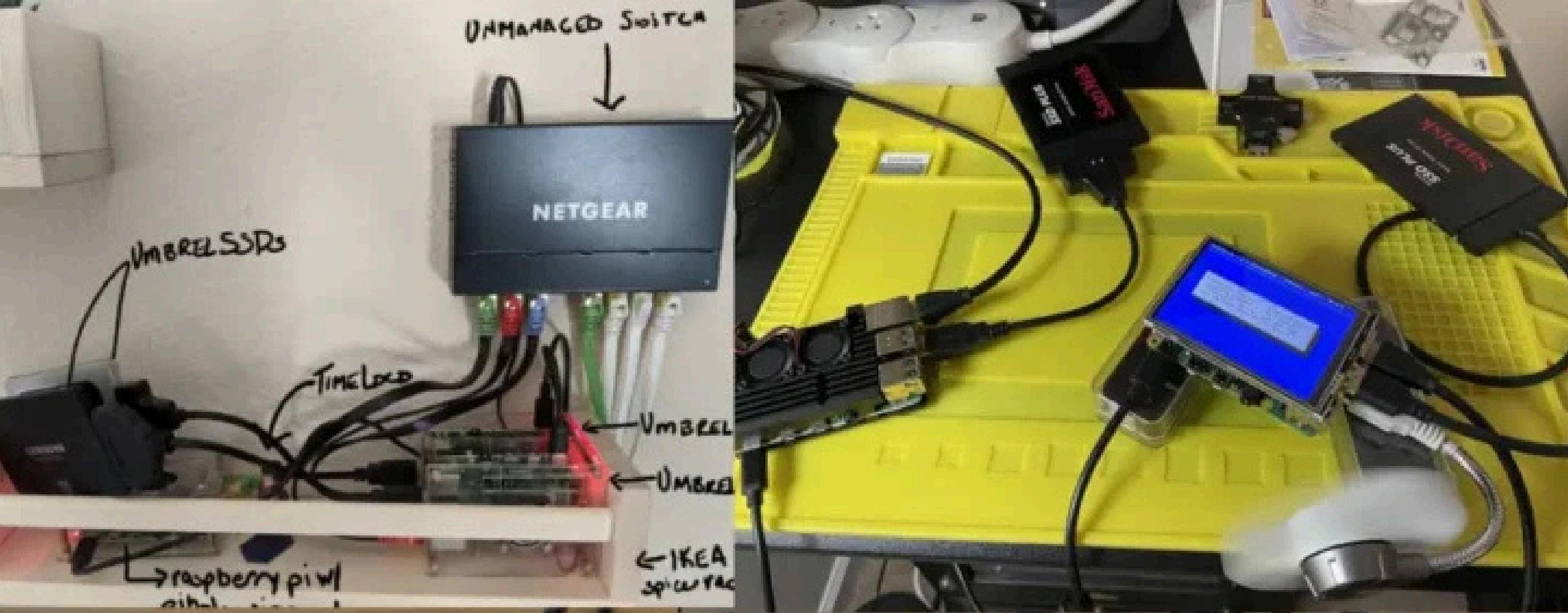


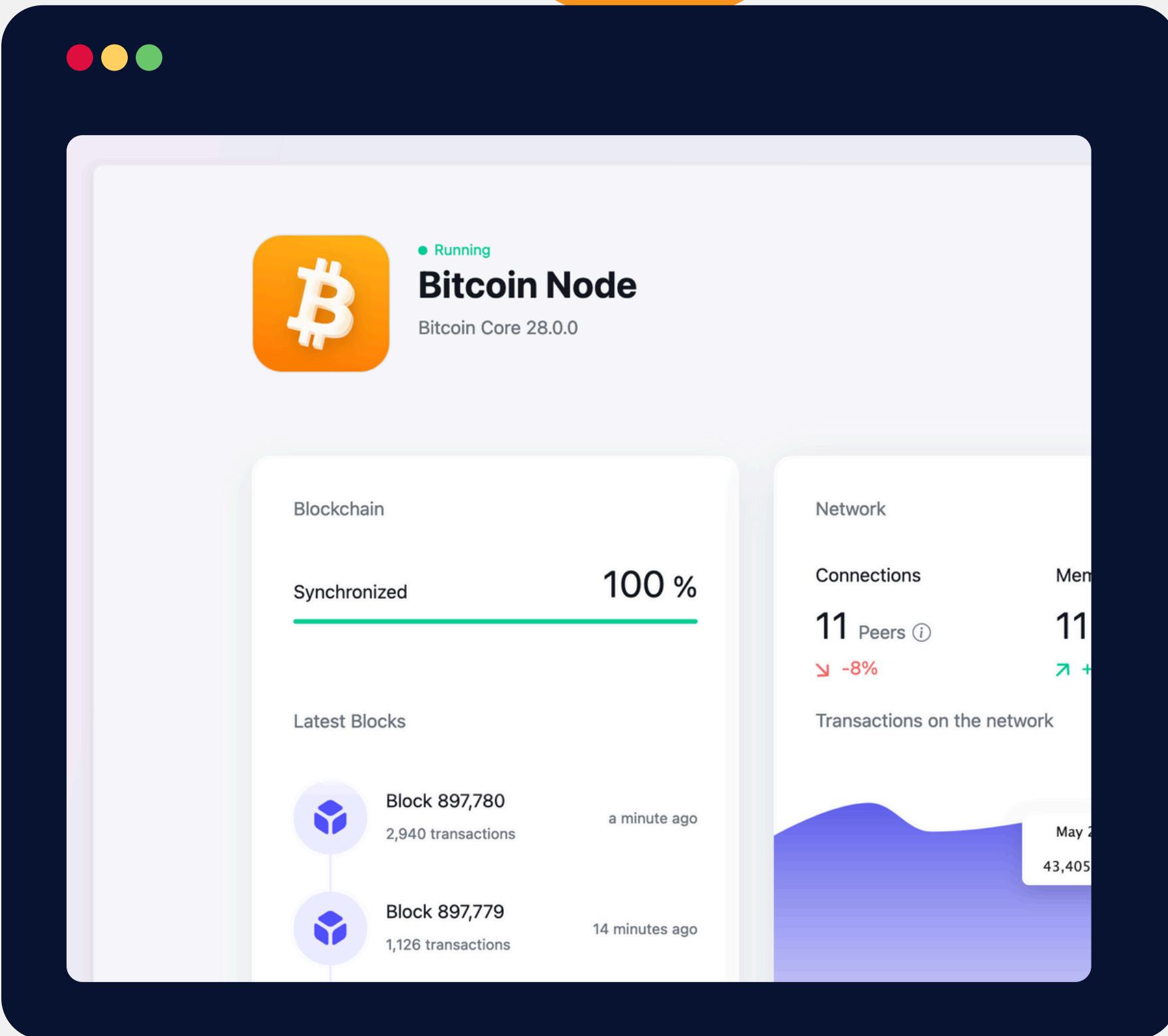
Installing Umbrel OS



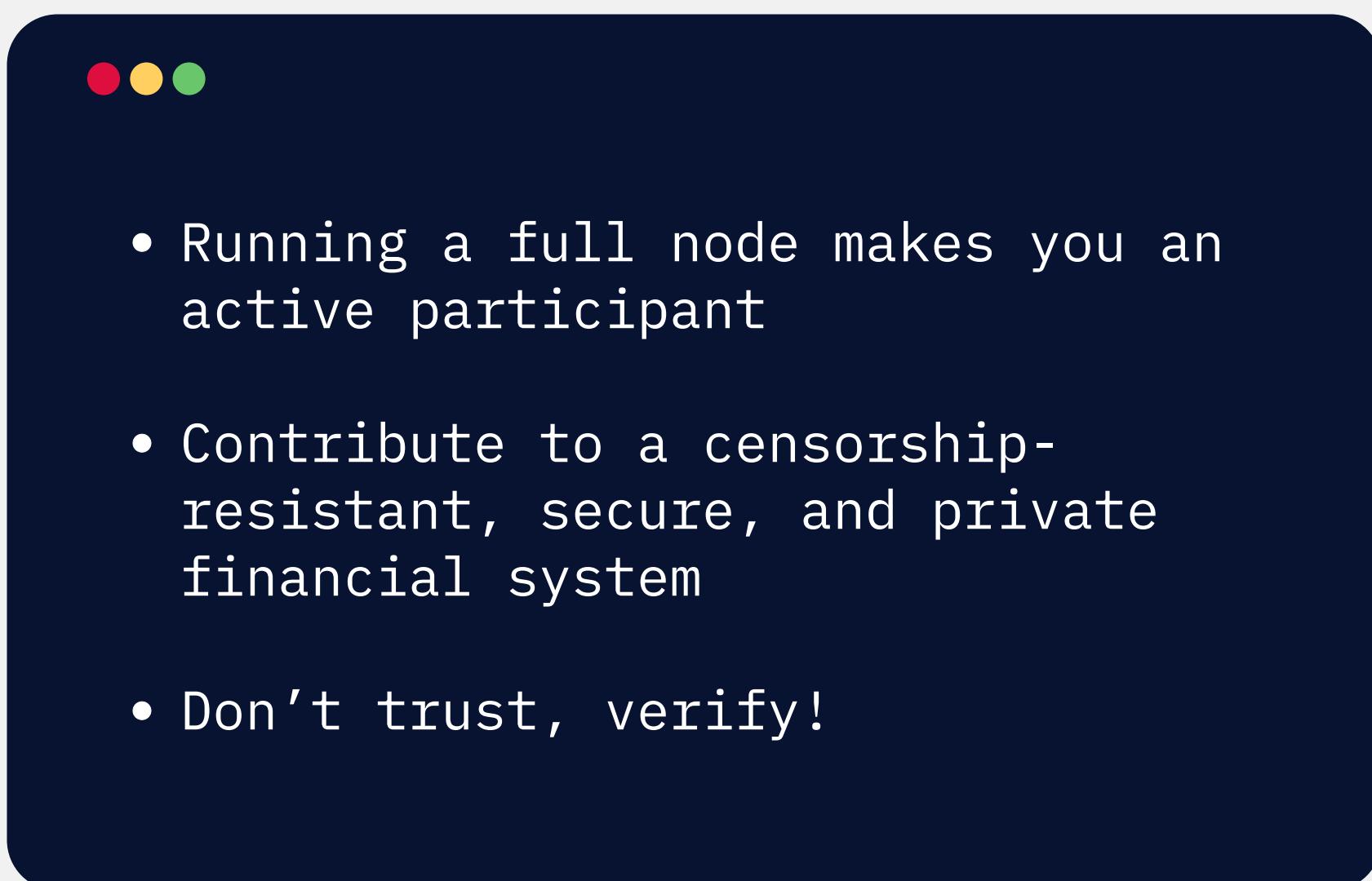
- Download Umbrel OS from umbrel.com (free)
- Use balenaEtcher to flash Umbrel OS onto the microSD card.
- Select Umbrel OS .zip file.
- Flash and verify.



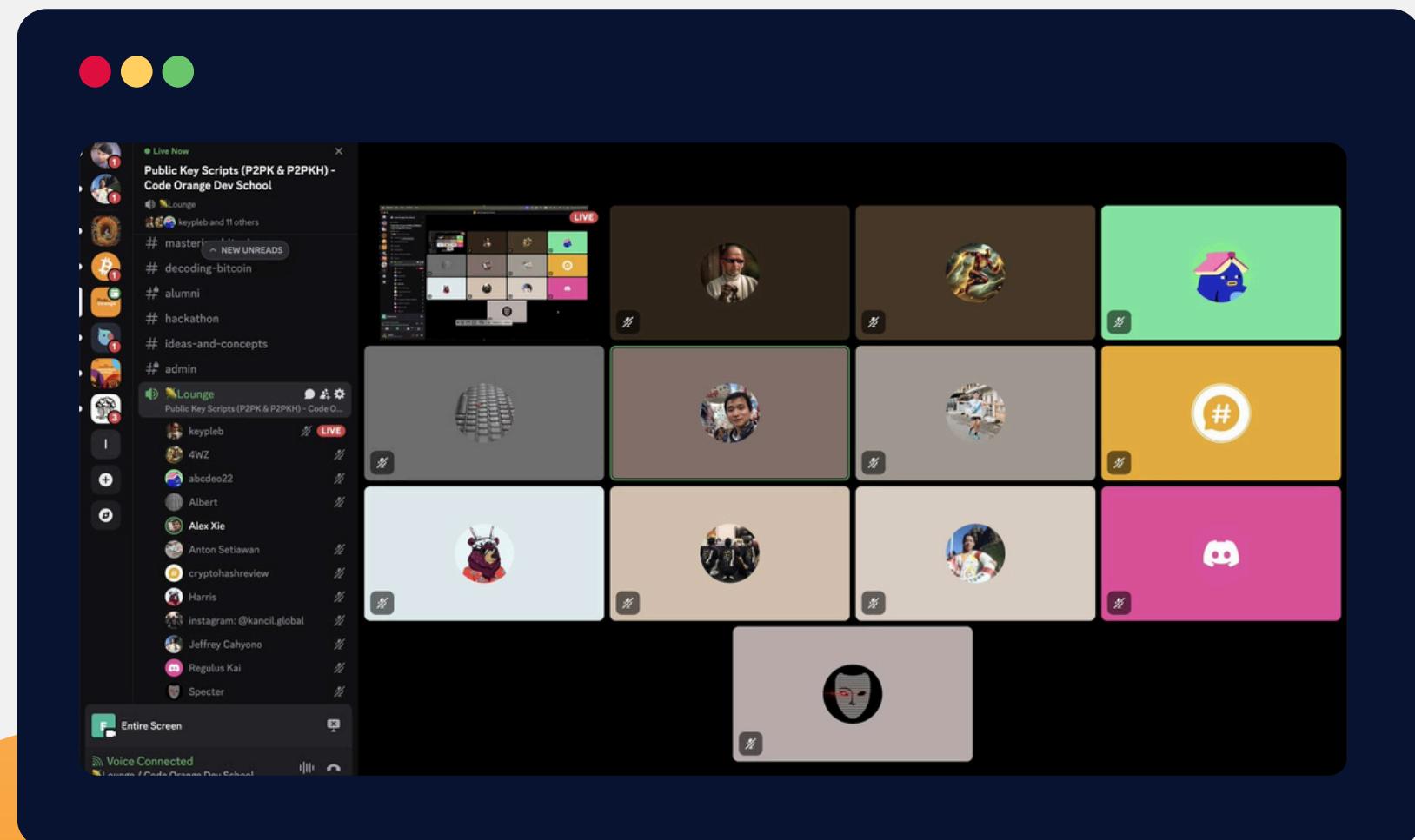




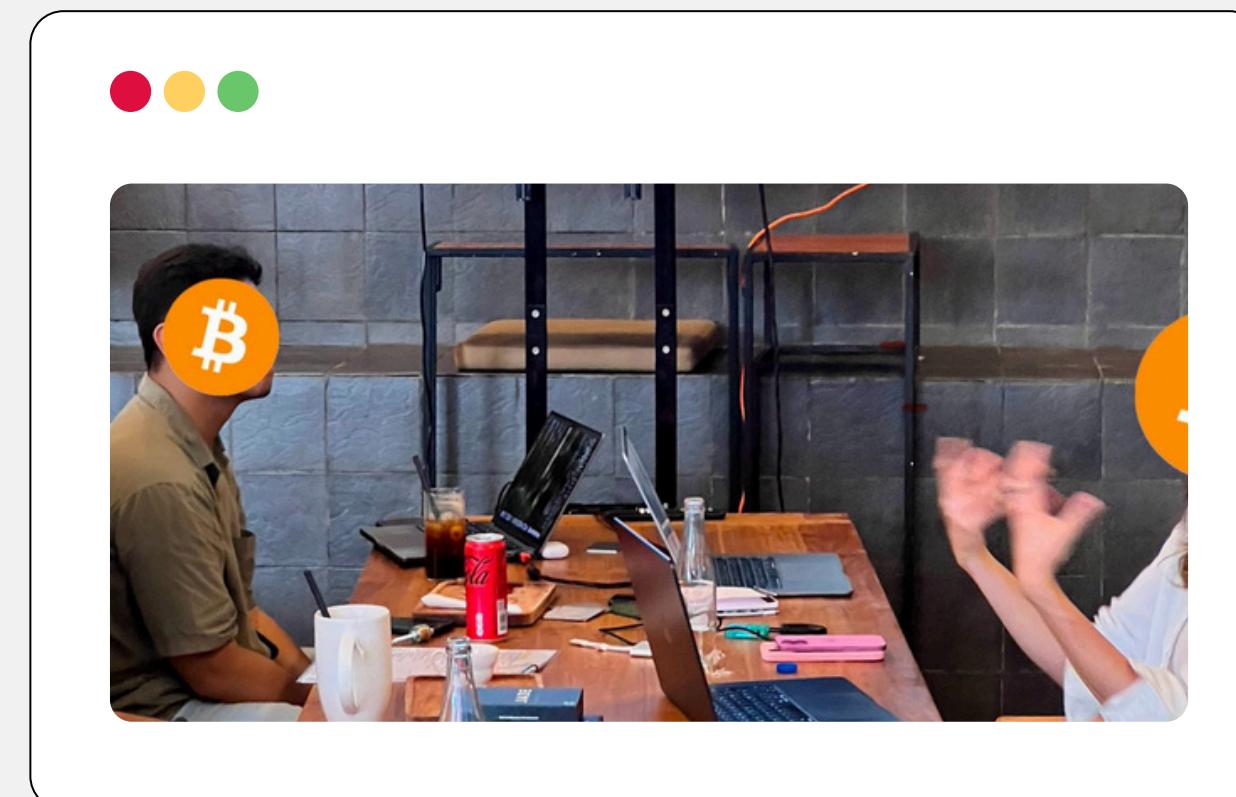
Join the Bitcoin Network!



Train-the-Trainer Model



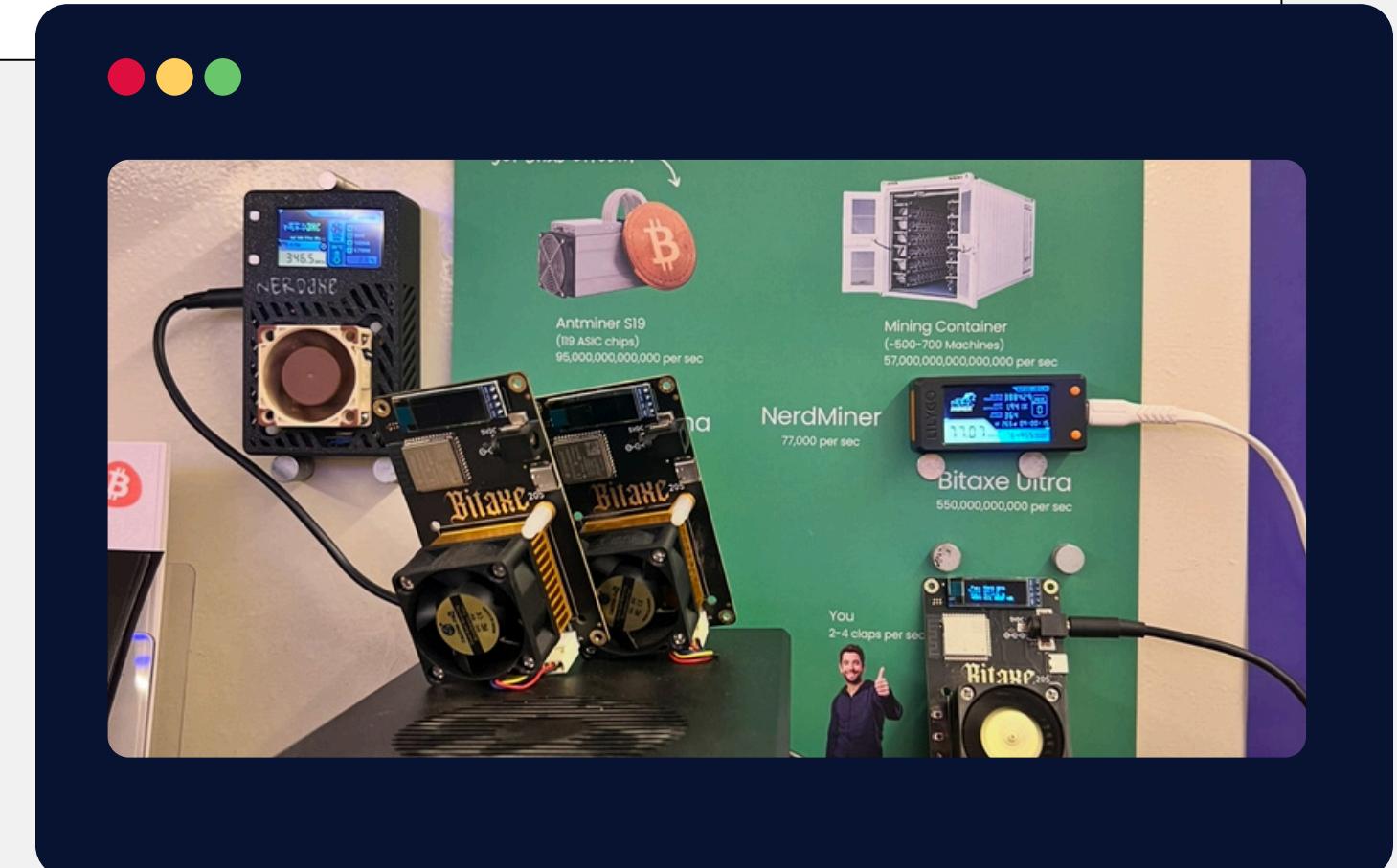
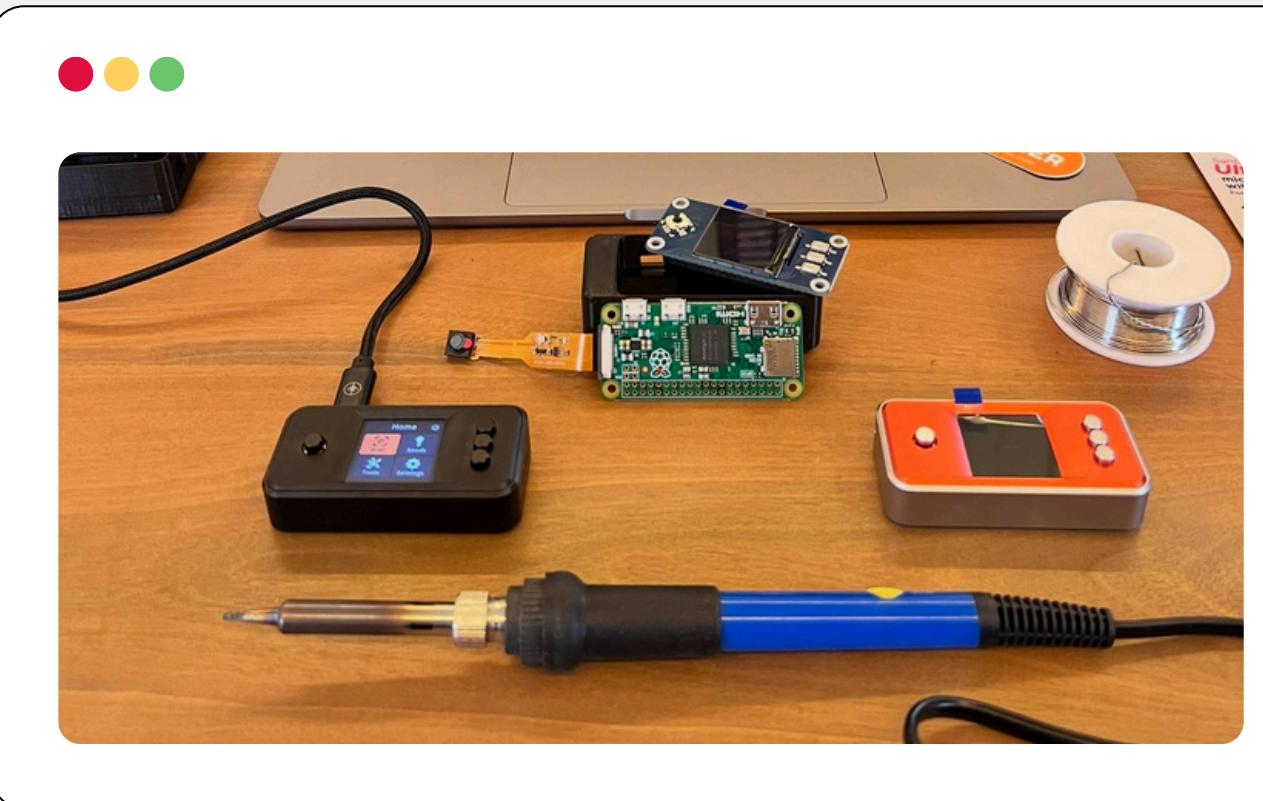
- Community leader training
- Workshops and Decoding Bitcoin cohorts to replicate education across Asia
- Monthly check-ins and in-person training.

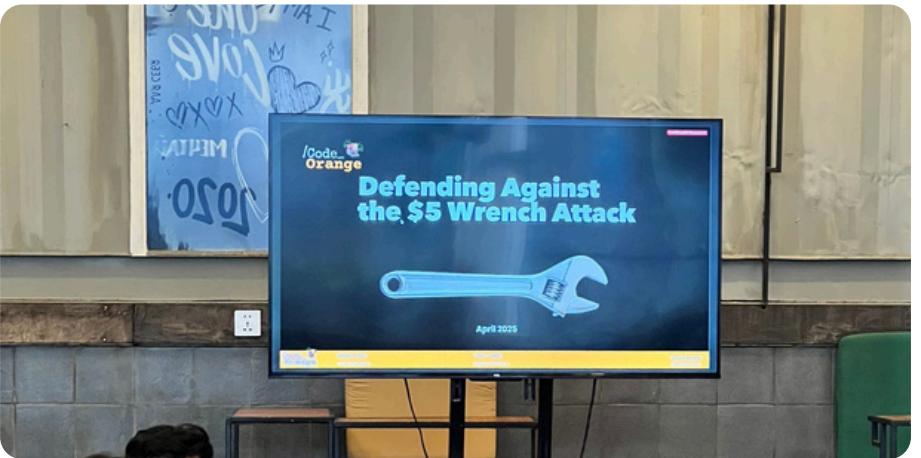


Let's start a workshop!



Upgrade your meetup





Thank You

