Two-Factor Authentication in Nextcloud

#### **Christoph Wurst**

## What is Two-Factor Authentication?

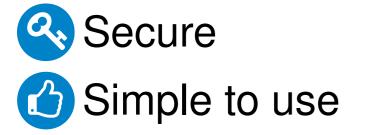
- Knowledge: something you know
- Possession: something you have
- Inherent: something you are

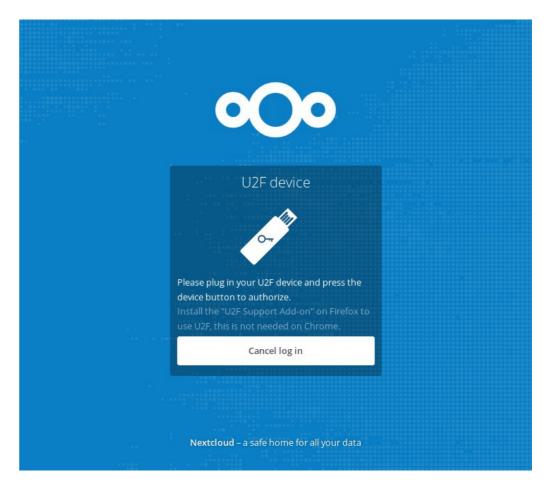
→two distinct factors



### **Universal Two-Factor Authentication**

# Open standard Hardware Key (USB)







**Christoph Wurst** 

### **Time-Based One-Time Password**

Open standard
Smartphone app

Secure
No hardware required

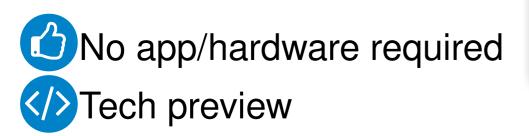
	000	
	TOTP (Authenticator app)	
	Authentication code	
	Submit	
	Get the authentication code from the two- factor authentication app on your device.	
Sa sa a	Cancel log in	
	Nextcloud – a safe home for all your data	

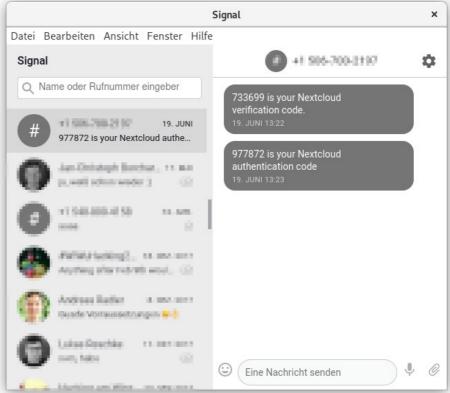


**Christoph Wurst** 

# **Messaging Gateway**

- Send messages via external gateways
- SMS
- Signal
- Telegram







### Current and future work

- Messaging Gateway
- Robustness to failure
- Status command

- Enhance login user experience
- More control for admins

hristoph@christoph-workstation nextcloud]\$ php occ twofactorauth:state admin o-factor authentication is enabled for user admin
abled providers:
backup_codes
sabled providers:
gateway
totp
u2f
yubiotp

