



# geteduroam update

Paul Dekkers

10 Jun 2024, Mobility Day @TNC24


SURF

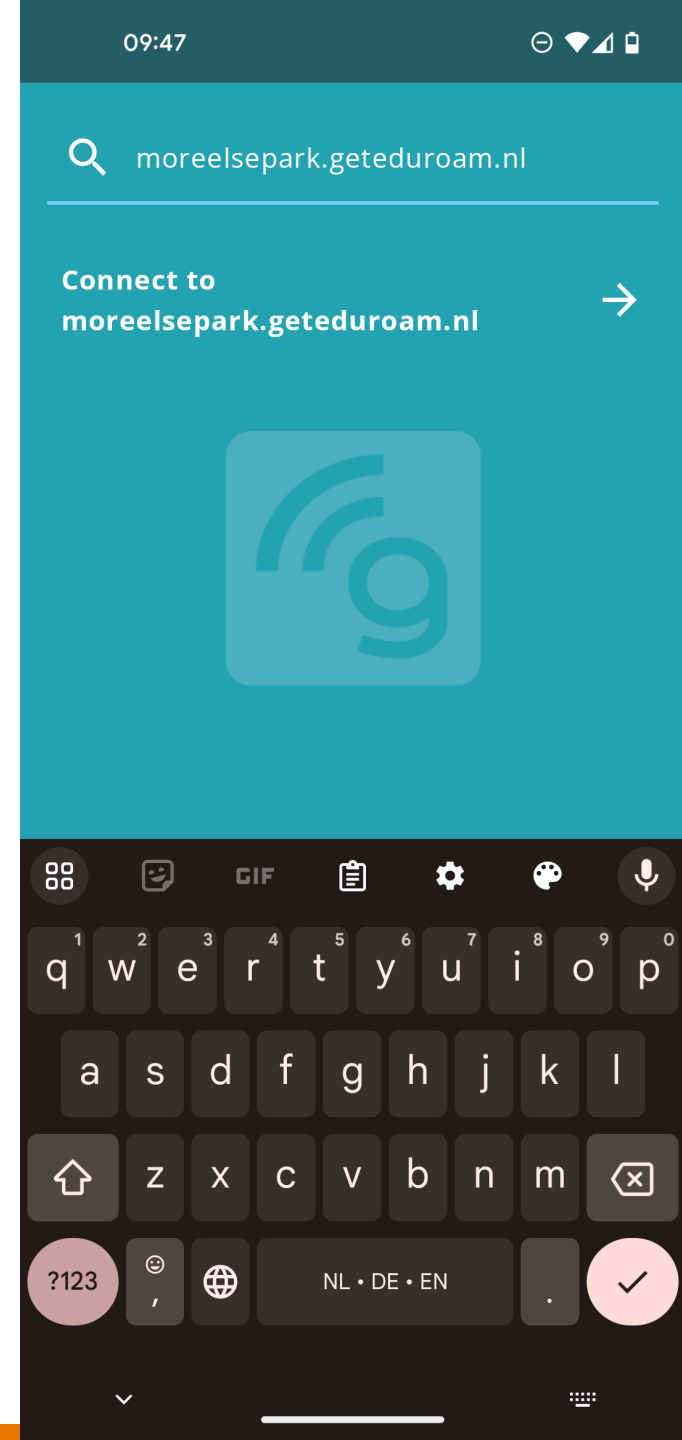


# What's new (since 2023), clients: in short

- New native Android version
  - Chrome OS support
- New native iOS (iPadOS) version
- Linux version
  - Now also GUI
- WIP: macOS version
- New Windows version

# What's new, portal

- Installation scripts
- ChromeOS support via ONC (instead of Android App)
- Improved pkcs12 output
  - Compatibility (added subjectAltName, compatible crypto)
  - Optional passphrase settings
- New discovery format, OAUTH endpoint discovery
  - Allows to enter URL to test portals (clients WIP) 
  - Opens up ability to provide more languages (WIP)
  - Need to store endpoints not discovery ID (TBD)



# Portal plans

- Log streams
  - Usage
  - Pseudo account creation (ie. syslog for SIEM)
- Self revocation (API for clients)
- Usage limits
- Improved documentation, installation scripts
- CRL improvements
- Per realm, organization (new level), pseudo-credential validity
- Helpdesk information
- Store mail-addresses optionally to inform users about expiration (alternative to the OS notifications)



# Portal deployment considerations

- The portal code is created to allow multiple realms/organizations
  - Each realm has it's own CA by default
- Some NROs deploy containers per institution, easy to clean up
- Occasional deployment with RADIUS at institution and portal/CA at NRO
- Easy to use the eduGAIN connected instance, possibly migrate (or keep it)

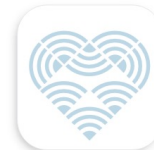
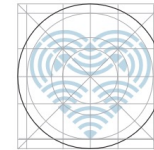
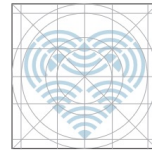
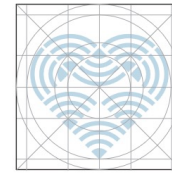
# New Apps use branding guidelines

## Application icon

Logo icon for Android and IOS

To create the application icon, was used the wireless sign which repeatedly forms the silhouette of the heart.

We use this icon to illustrate not only the application buton on mobile (android/IOS) or desktop, but also as a favicon of the web page.



eduroam Windows



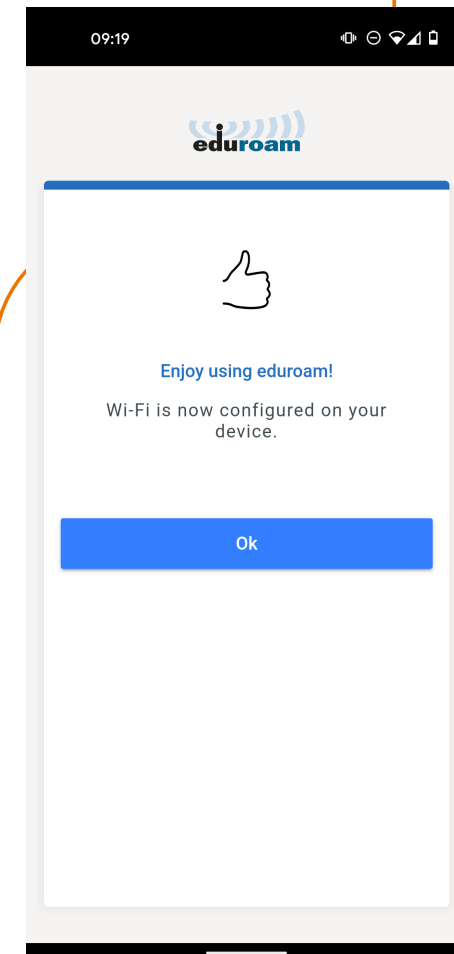
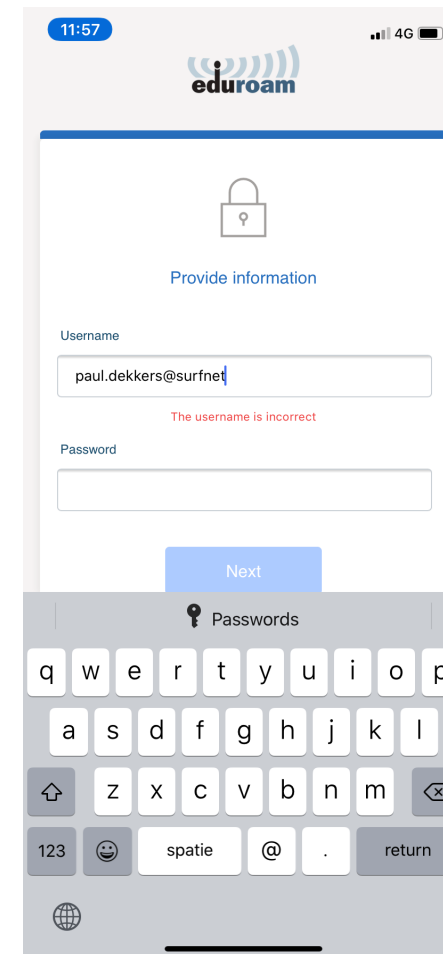
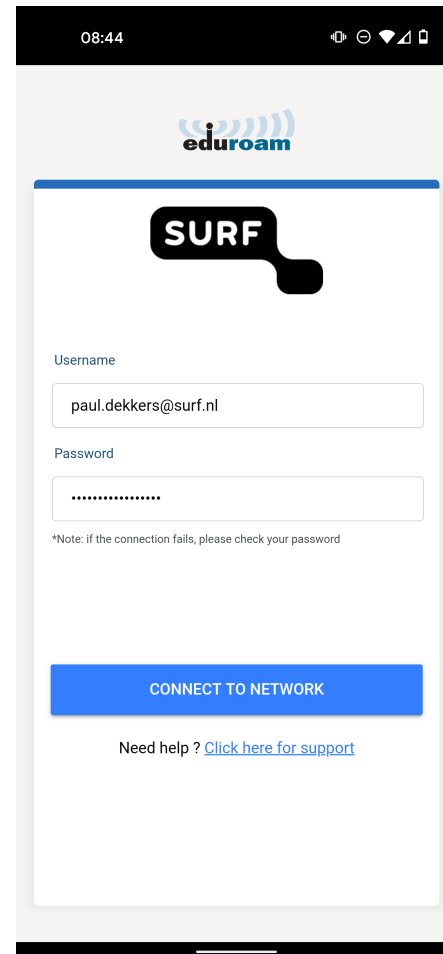
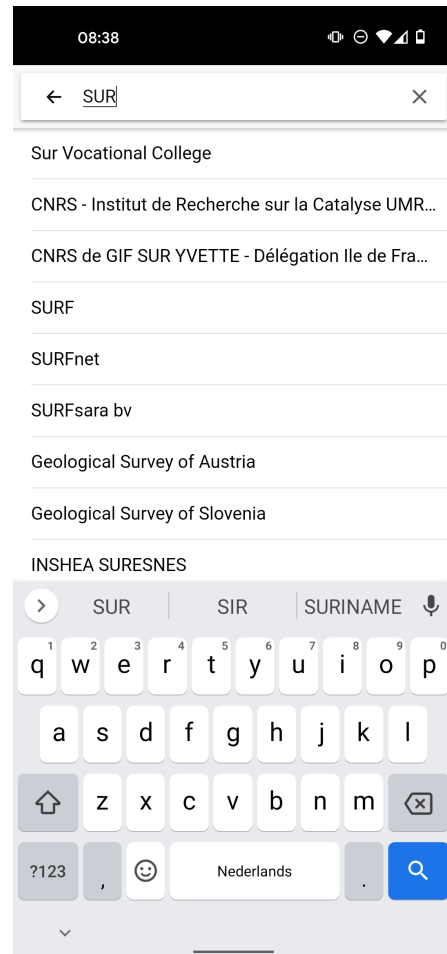
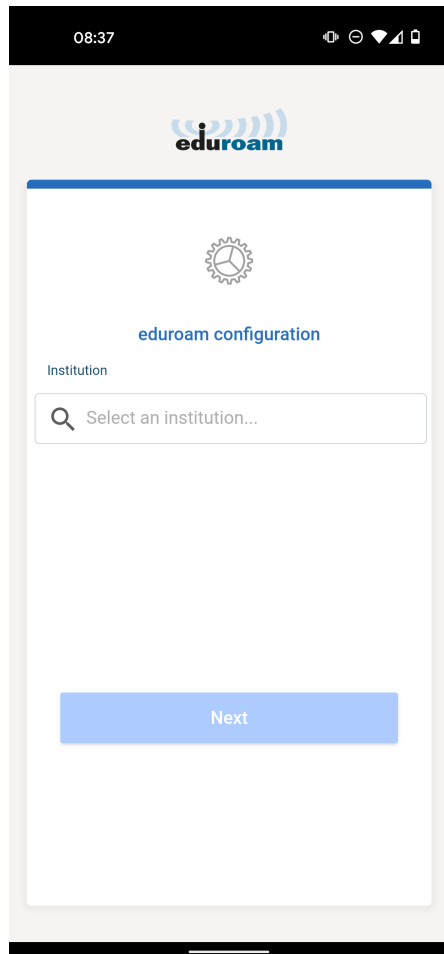
eduroam IOS



eduroam Mac

# The old Apps are replaced

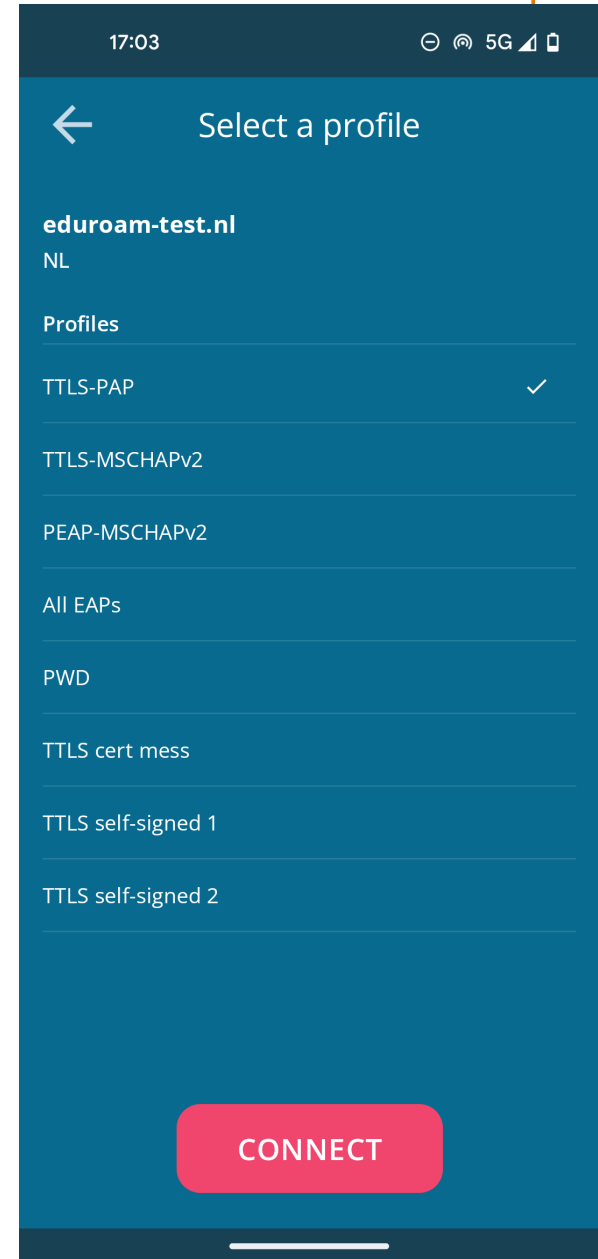
- Old App:



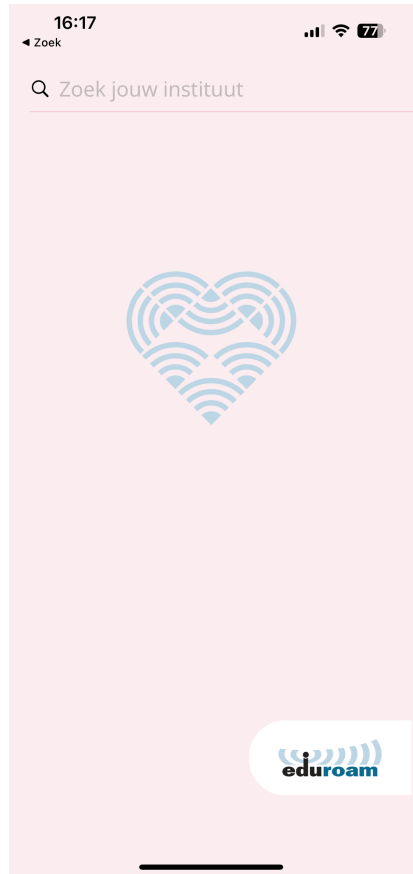


# New Apps

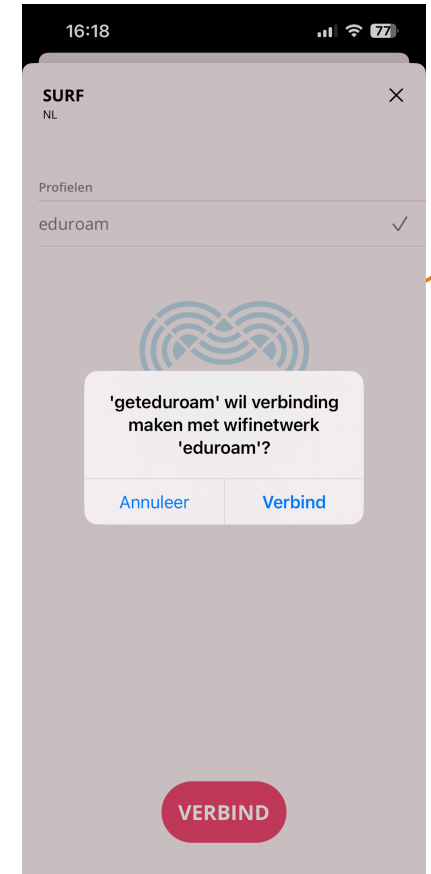
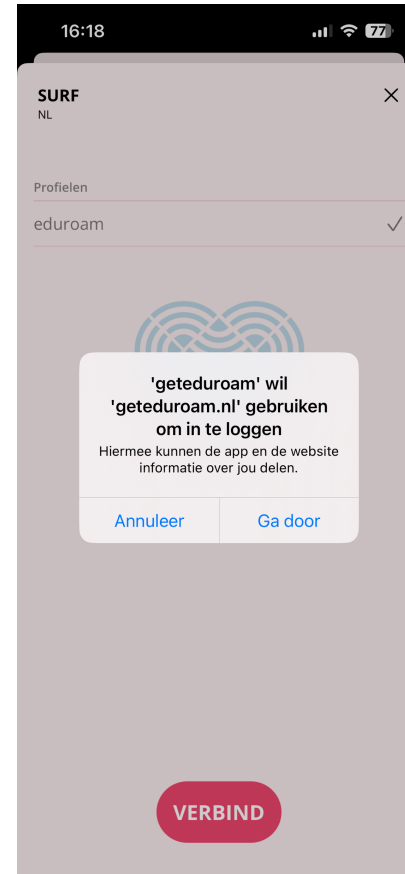
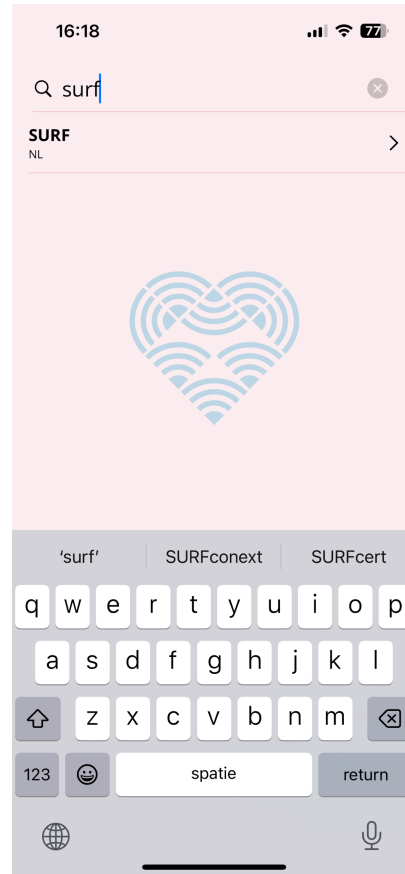
- Sustainable support contracts with developers (Windows, iOS, Android/Chrome)
- Native code (eg. Kotlin) instead of framework
  - Smaller, better performance on weak devices
- Unfortunately some new bugs with the release early Jan 2024
  - Most were fixed fast
  - We test a LOT but there's SO much diversity in eduroam profiles →
  - People don't always realize the state their CAT profiles are in
- Use default browser, works better with password managers and SSO sessions
- Support for ChromeOS
- New translations, more platforms



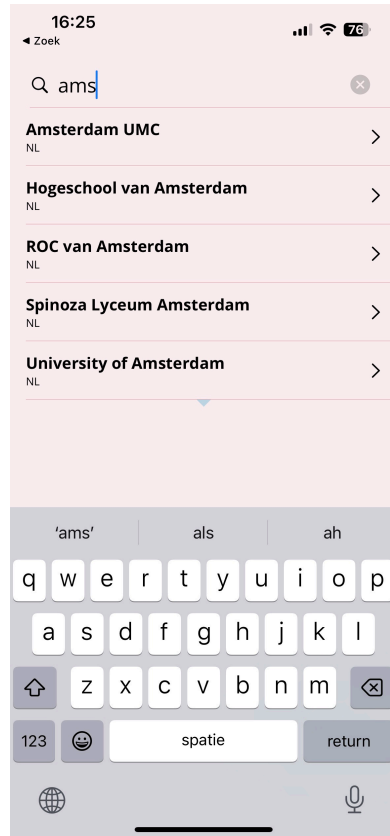
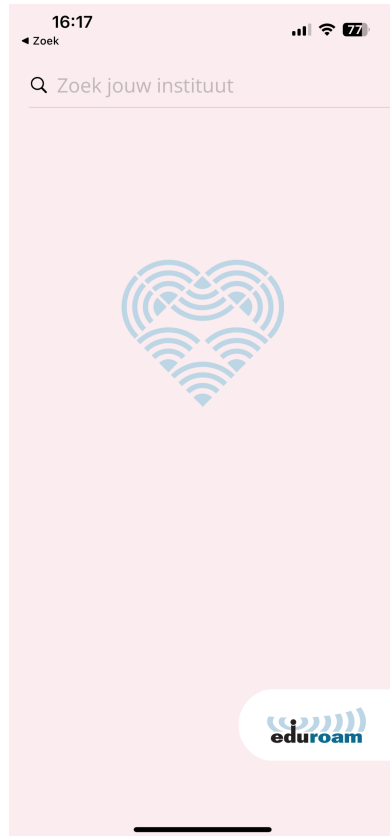
# new App versions



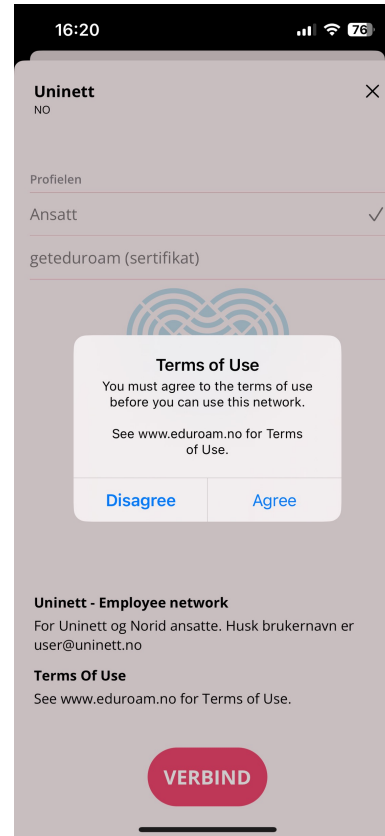
Dark mode



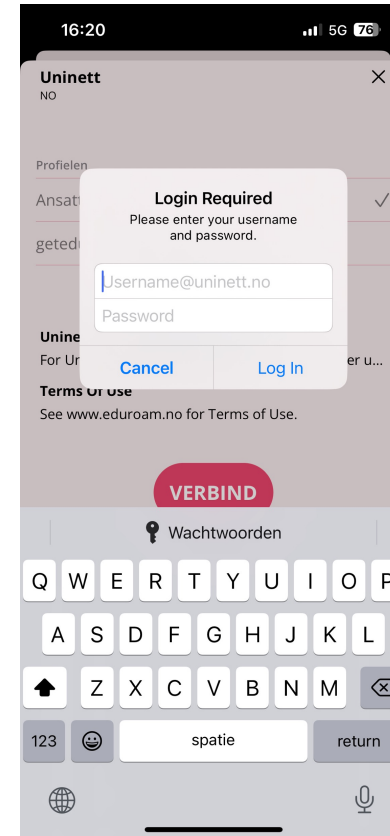
# new App versions



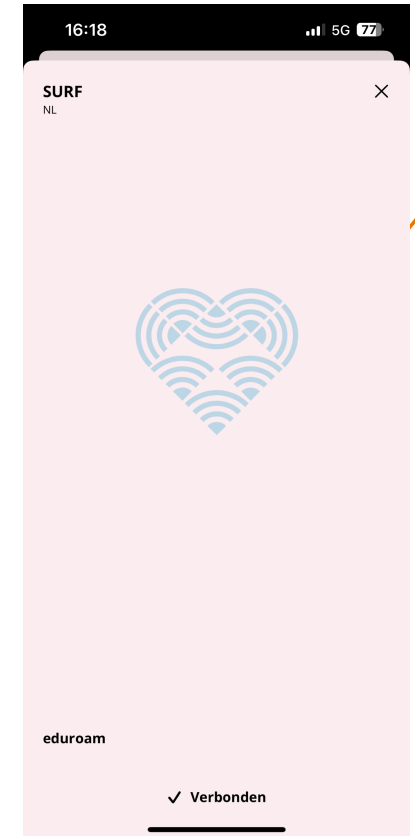
discovery



ToS



Passwords





# Changes in 2024, a few examples

- Android, use embedded browser on Android when the OS browser is replaced
- Sideloading .eap-config on iOS, via 🔍 and from .eap-config Files
- Support for CAs with empty CN (GoDaddy) and other CA compatibility issues
- Handle long/many servernames from CAT
- Enable scrolling with a lot of profiles
- Certificate passphrase prompts
- Realm enforcement/suggestions
- Parallel use of geteduroam and getgovroam on iOS
- Support for ChromeOS (Android App + ONC)
- New and more translations for iOS, Android (ChromeOS), Windows
- Fixes in search
- Work in progress to notify users about updates

# iOS testflight

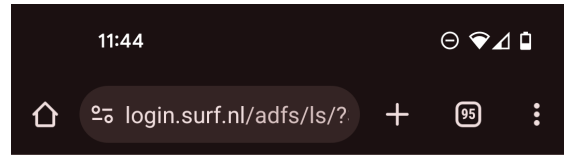
- We test a lot before release; but it helps if others run test-versions also
- Android open beta can be joined from the Play Store
- Apple TestFlight:



[edu.nl/jrqg7](https://edu.nl/jrqg7)

# Android embedded browser for non-default browsers

- The browser needs to support CustomTabs, Edge or DuckDuckGo don't
- The normal browser has advantages, so it's not default



Sign in

Sign in

**Wachtwoord vergeten?** Ga naar de [userportal](#) om je wachtwoord te herstellen.

© 2018 Microsoft



Sign in

Sign in

**Wachtwoord vergeten?** Ga naar de [userportal](#) om je wachtwoord te herstellen.

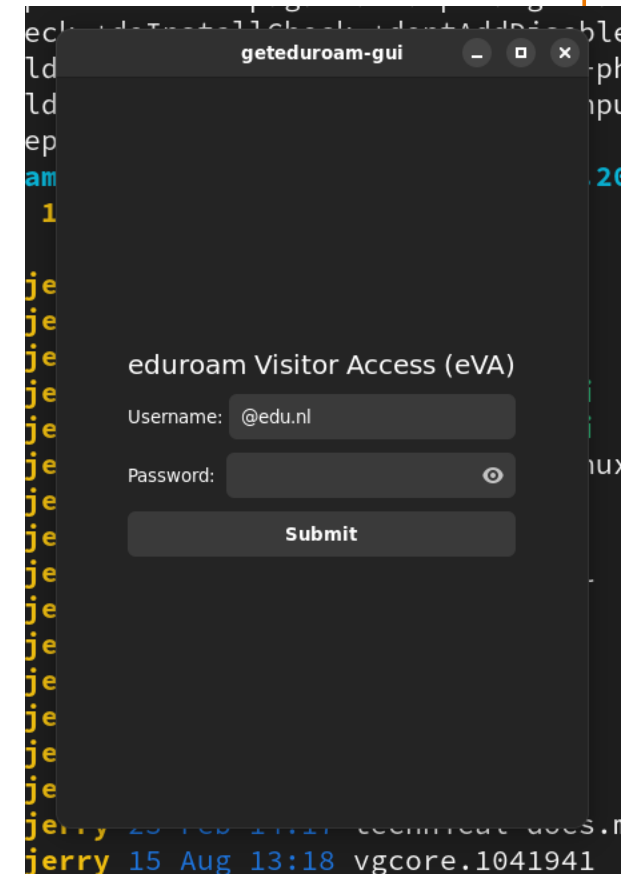
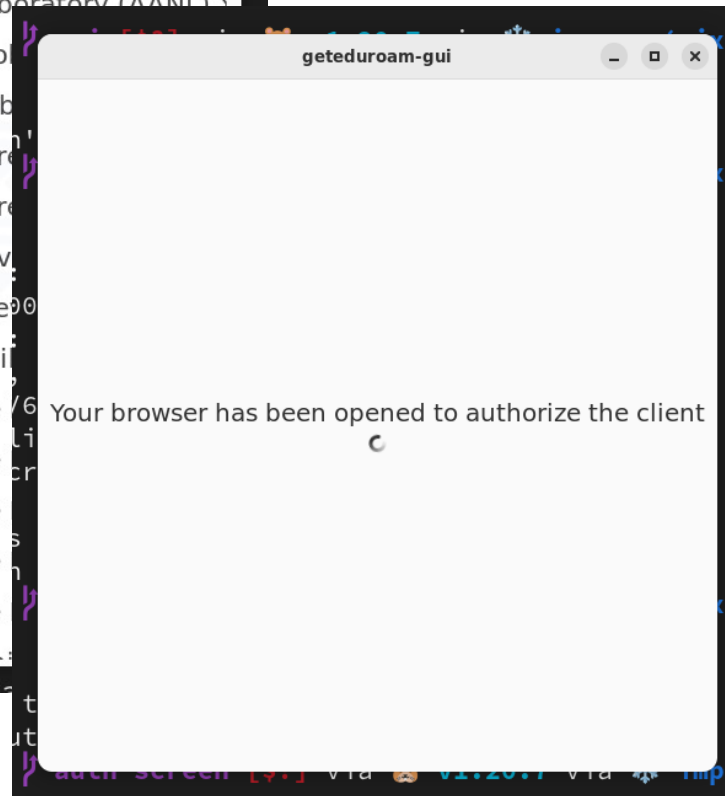
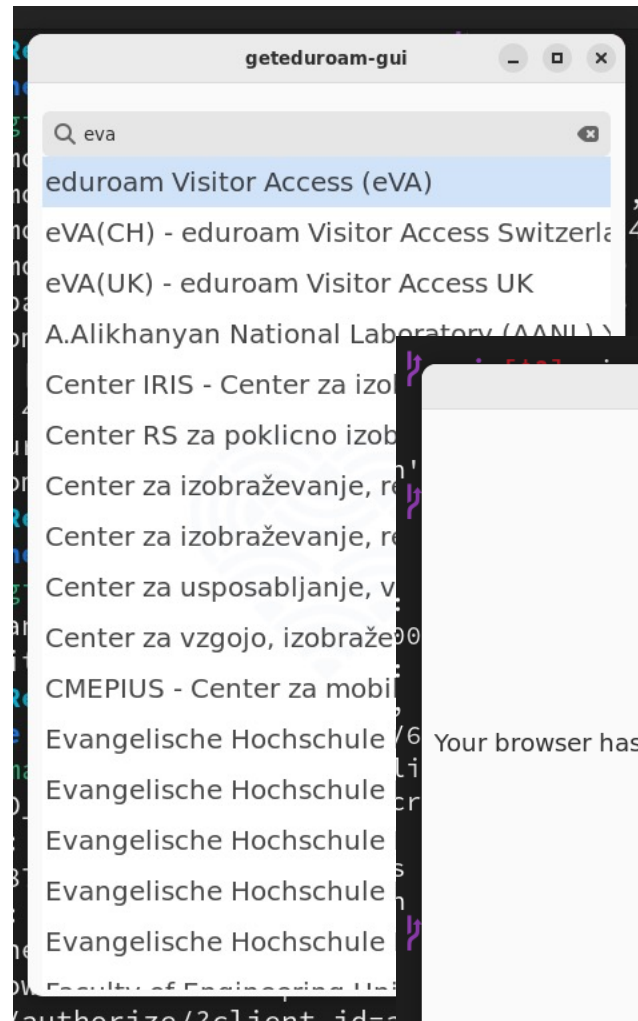
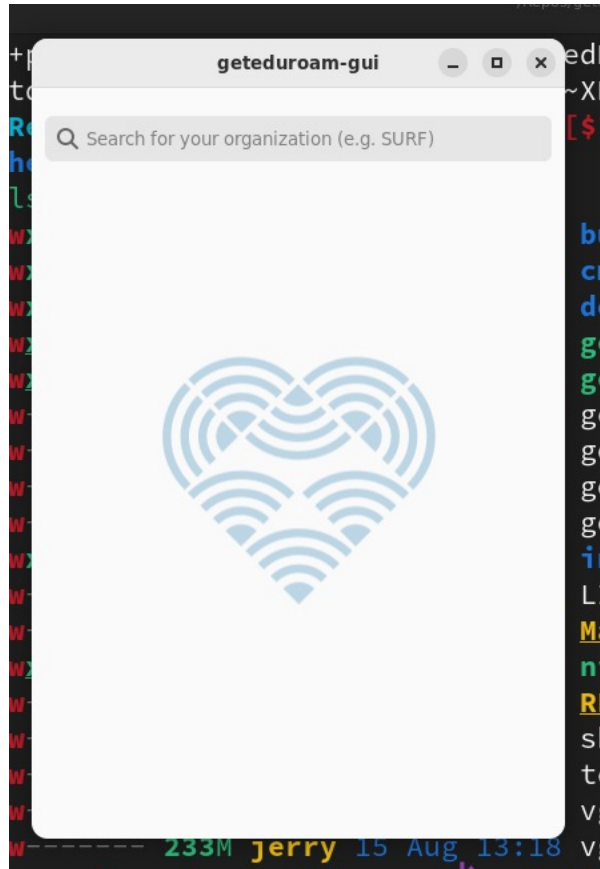
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or



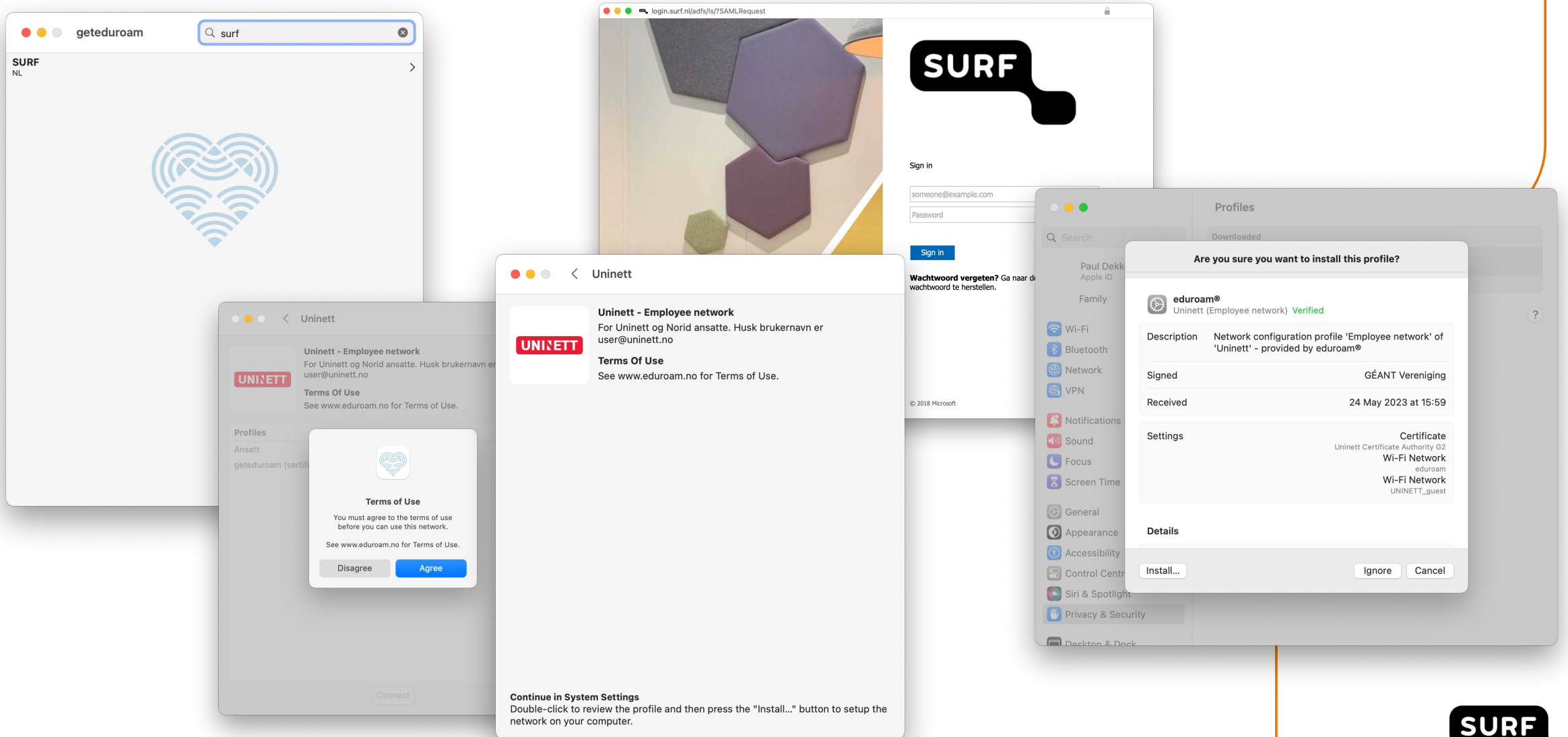


# TNC23 we showed the Linux CLI, now there is the GUI



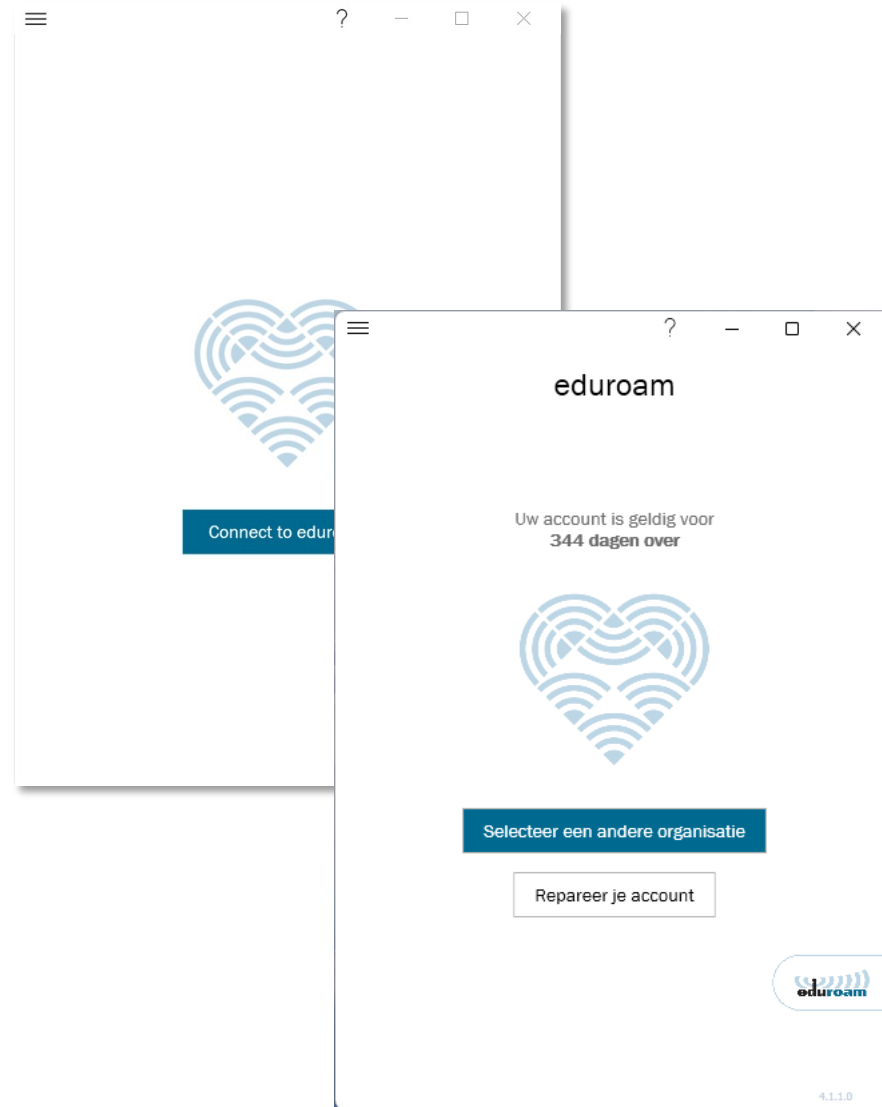
No notifications or translations yet

# macOS, still unreleased



# New Windows client

- Better codebase
- Mimic mobile Apps better
- Translations
- Resolve some technical issues (spontaneous profile removal)
- Removal of old certificates
- Autocomplete user-realm
- Multi architecture support (ARM)
- Removal of redundant screens
- Notifications
- Repair / reinstall





☰ ? - □ ×

## Select institution

🔍 Search

- 's Heeren Loo Onderwijs
- AMOLF
- ASTRON
- Academisch Medisch Centrum (AMC)
- Amsterdam UMC
- ArtEZ
- Avans Hogeschool
- Biezonderwijs
- Breda University of Applied Sciences
- CSG Groningen
- CVO in Noord- en West-Fryslân
- CWI
- Centerdata
- Christelijke Hogeschool Ede
- Christelijke Hogeschool Ede
- Cibap vakschool voor vormgeving
- Coenecoop College
- Curio
- DIFFER

Previous Next

4.0.0.0+Debuo

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## Selecteer organisatie

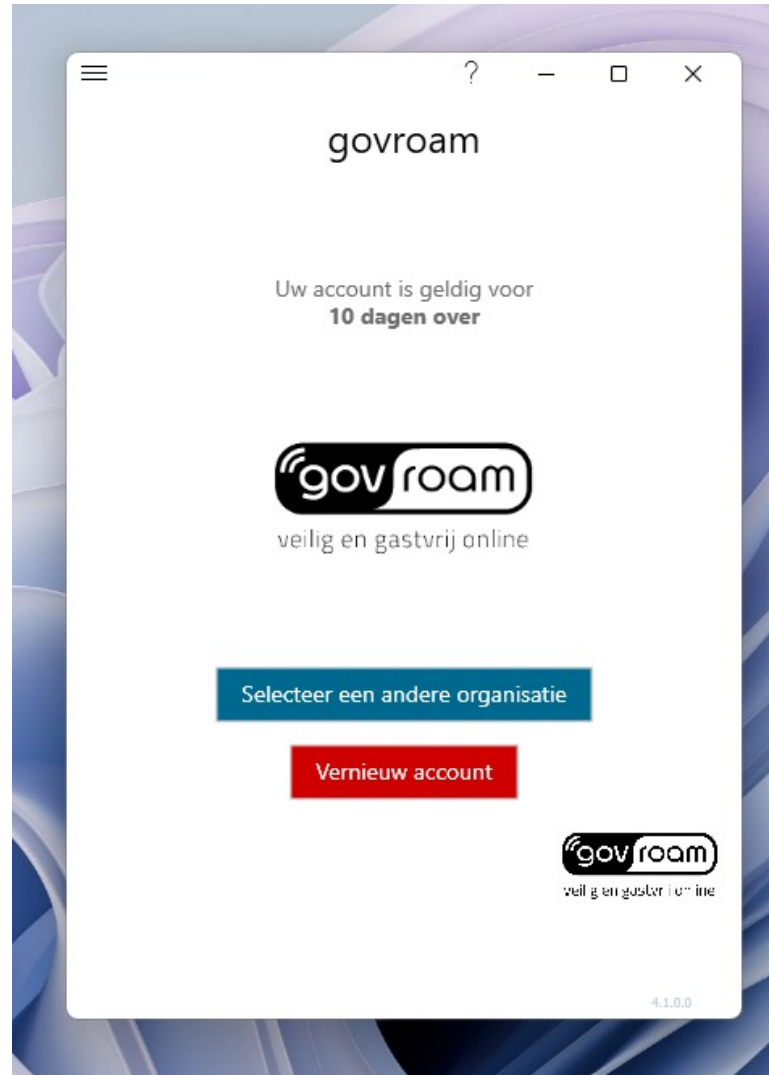
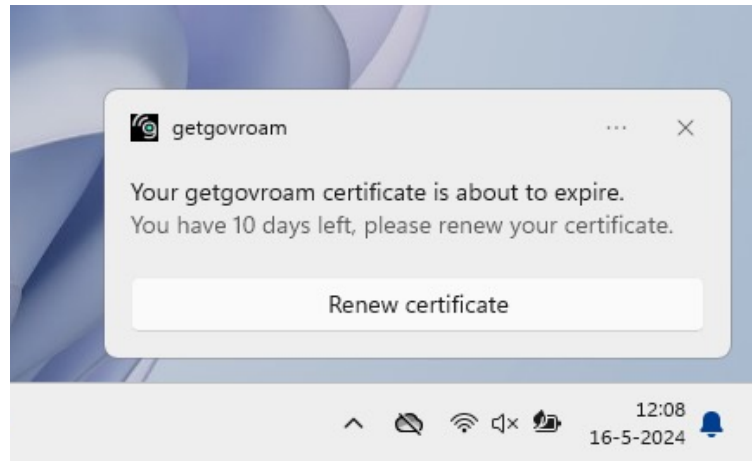
🔍 Zoek jouw organisatie

Vorige Volgende

4.1.1.0

# Windows account renewal notifications

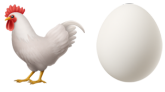
- If you used geteduroam.exe /install



# Admin portal, virtually unchanged

The screenshot shows the 'geteduroam' admin portal. The left sidebar contains navigation links: Dashboard, Configuration, Pseudo accounts (selected), User accounts, and Administrator. The main content area is titled 'Pseudo accounts' and features a search bar, a user profile 'dekke002@surf.nl', and a 'Filters (2)' button. Below this is a table with columns: Serial, Requester, Pseudo account, Realm, Valid until, and Revoked. The table lists 18 pseudo accounts, all with 'Requester' 'paul@moreelsepark.geteduroam.nl' and 'Realm' 'moreelsepark.geteduroam.nl'. The 'Valid until' dates range from 2023-08-19 to 2024-03-15, and all 'Revoked' statuses are 'NO'. At the bottom, it shows '357 results' and a pagination control with '18' selected.

<input type="checkbox"/>	Serial	Requester	Pseudo account	Realm	Valid until	Revoked	
<input type="checkbox"/>	24759	paul@moreelsepark.geteduroam.nl	4y12lkyu2yc4xj4c	moreelsepark.geteduroam.nl	2023-08-19	NO	...
<input type="checkbox"/>	24760	paul@moreelsepark.geteduroam.nl	l2lmi0v3itn12wyb	moreelsepark.geteduroam.nl	2023-08-19	NO	...
<input type="checkbox"/>	24761	paul@moreelsepark.geteduroam.nl	tbgpxz3o2m5i3sqh	moreelsepark.geteduroam.nl	2023-08-19	NO	...
<input type="checkbox"/>	24762	paul@moreelsepark.geteduroam.nl	zkphkzya50ahutyp	moreelsepark.geteduroam.nl	2023-08-19	NO	...
<input type="checkbox"/>	24763	paul@moreelsepark.geteduroam.nl	on2pmx3r5jbz32jt	moreelsepark.geteduroam.nl	2023-08-19	NO	...
<input type="checkbox"/>	24764	paul@moreelsepark.geteduroam.nl	pkjcmdmrinh4p0v	moreelsepark.geteduroam.nl	2023-08-19	NO	...
<input type="checkbox"/>	24765	paul@moreelsepark.geteduroam.nl	eesvxlgw4evza4kb	moreelsepark.geteduroam.nl	2023-08-19	NO	...
<input type="checkbox"/>	24766	paul@moreelsepark.geteduroam.nl	pstw3wtq4gz4k4u3	moreelsepark.geteduroam.nl	2023-08-19	NO	...
<input type="checkbox"/>	24767	paul@moreelsepark.geteduroam.nl	iicjphvgsdk4g2iq	moreelsepark.geteduroam.nl	2023-08-19	NO	...
<input type="checkbox"/>	24897	paul@moreelsepark.geteduroam.nl	eevpybpudpuy42p1	moreelsepark.geteduroam.nl	2023-08-22	NO	...
<input type="checkbox"/>	25407	paul@moreelsepark.geteduroam.nl	0ep1fx4zjzdijji	moreelsepark.geteduroam.nl	2023-08-25	NO	...
<input type="checkbox"/>	25576	paul@moreelsepark.geteduroam.nl	fvsp1z1xgwfhiwtd	moreelsepark.geteduroam.nl	2023-08-26	NO	...
<input type="checkbox"/>	43993	paul@moreelsepark.geteduroam.nl	ulvwqiml3kizjppww	moreelsepark.geteduroam.nl	2023-11-04	NO	...
<input type="checkbox"/>	44986	paul@moreelsepark.geteduroam.nl	in2uf1ylbxqrycoy	moreelsepark.geteduroam.nl	2023-11-16	NO	...
<input type="checkbox"/>	44987	paul@moreelsepark.geteduroam.nl	kmpym5o33n4oqlok	moreelsepark.geteduroam.nl	2023-11-16	NO	...
<input type="checkbox"/>	44988	paul@moreelsepark.geteduroam.nl	p3q5ebjdkl5s004y	moreelsepark.geteduroam.nl	2023-11-16	NO	...
<input type="checkbox"/>	54509	paul@moreelsepark.geteduroam.nl	nqs2g1bnpopbei1q	moreelsepark.geteduroam.nl	2024-03-15	NO	...



- We'd love to find a way to break the chicken-egg problem
  - Now we see captive portals and separate SSIDs
  - OSU isn't a thing yet, is it
- Advise users to “configure geteduroam at home” before going to their institution
  - They get a letter with account details anyway, right
- Print a QR code with an .eap-config profile?
  - What about re-use (monitor this in RADIUS? Unique MACs/day?)
  - Optional for some institutions?



# Slack channels


- On the eduroam Slack workspace, there are:
  - #geteduroam (generic, client)
  - #geteduroam-portal (ca, portal)





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 @pauldekkers

**SURF**