

privacyIDEA

Die Open-Source-Alternative zu RSA
SecurID & Co.

Grazer Linuxtage 2018

Vorstellung

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2FA seit 2012

seit 2017 bei der NetKnights
GmbH



Authentisierung

Wie beweise ich, dass ich tatsächlich ich bin?

—

mit meinem Passwort!

Nur ich kenne mein Passwort!

... *nur* ich?

haveibeenpwned.com

277

pwned websites

4,966,062,037

pwned accounts

67,976

pastes

74,853,700

paste accounts

Largest breaches



711,477,622 Onliner Spambot accounts

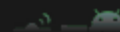


593,427,119 Exploit In accounts

Recently added breaches



386,489 Smogon accounts



13,873,674 HiAPK accounts

Zwei-Faktor-Authentifizierung

Nicht nur Wissen ...
... sondern auch Besitz!



Passwort = statisch + OTP

z.B. huhu850545



Username or email

Password



privacyIDEA

Please authenticate using the selected factor.

OTP

Verify

Cancel login



privacyID3A
AUTHENTICATION SYSTEM

github.com/privacyidea/privacyidea

AGPLv3, 27 contributors, ~400 stars

Python 2.7, Flask, SQLAlchemy

vorher ...

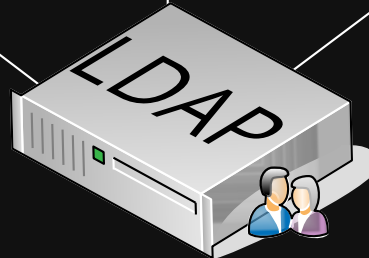
Windows / Linux
Desktops



ownCloud



Firewall / VPN



... nachher

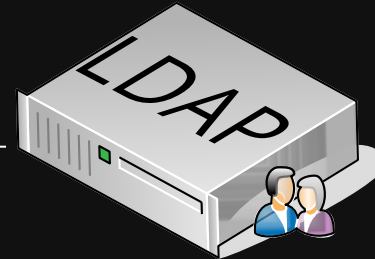
Windows / Linux
Desktops



ownCloud



Firewall / VPN



[Tokens](#)[Users](#)[Machines](#)[Config](#)[Audit](#)[Components](#)[Refresh](#)[super @ \(admin\)](#)[All tokens](#)[Enroll Token](#)[Import Tokens](#)[List Challenges](#)[Get Serial](#)

total tokens: 3

serial● ▼	type● ▼	active●	description● ▼	failcounter●	user	realm
2108713600005412	totp	active	imported	0	fred	ucsrealm
LM0000004588	totp	active	imported	0		
OATH0000634A	hotp	active		1	hugo	ucsrealm

Benutzerquellen

- LDAP
- SQL
- Flatfile
- ...

Token-Typen

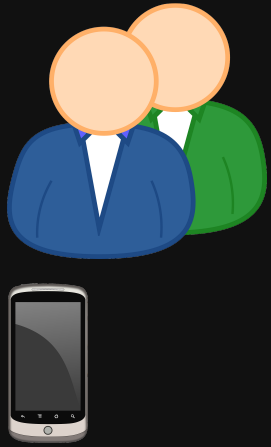
- zeitbasiert (TOTP)
- ereignisbasiert (HOTP)
- Challenge-Response
- ...

Applikationen / Plugins

über REST-API, z.B.:

- FreeRADIUS
- ownCloud
- PAM (z.B. Desktop, SSH)
- LDAP-Proxy
- ...

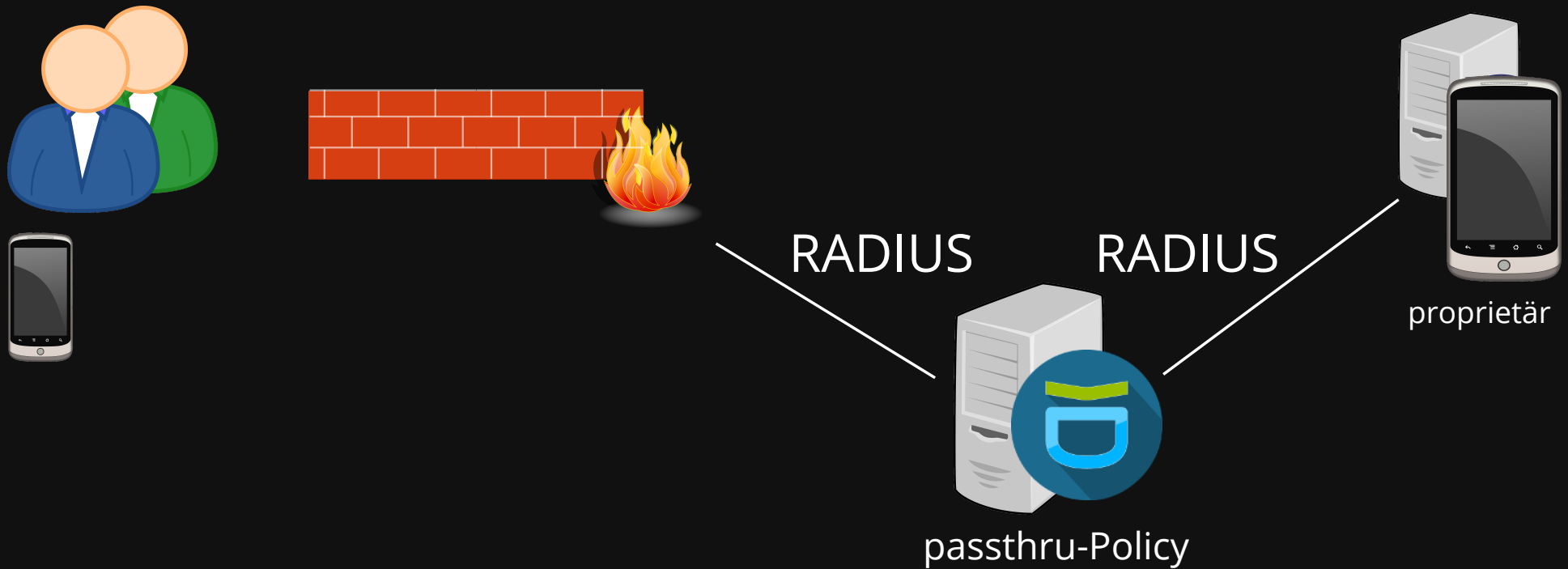
Migration



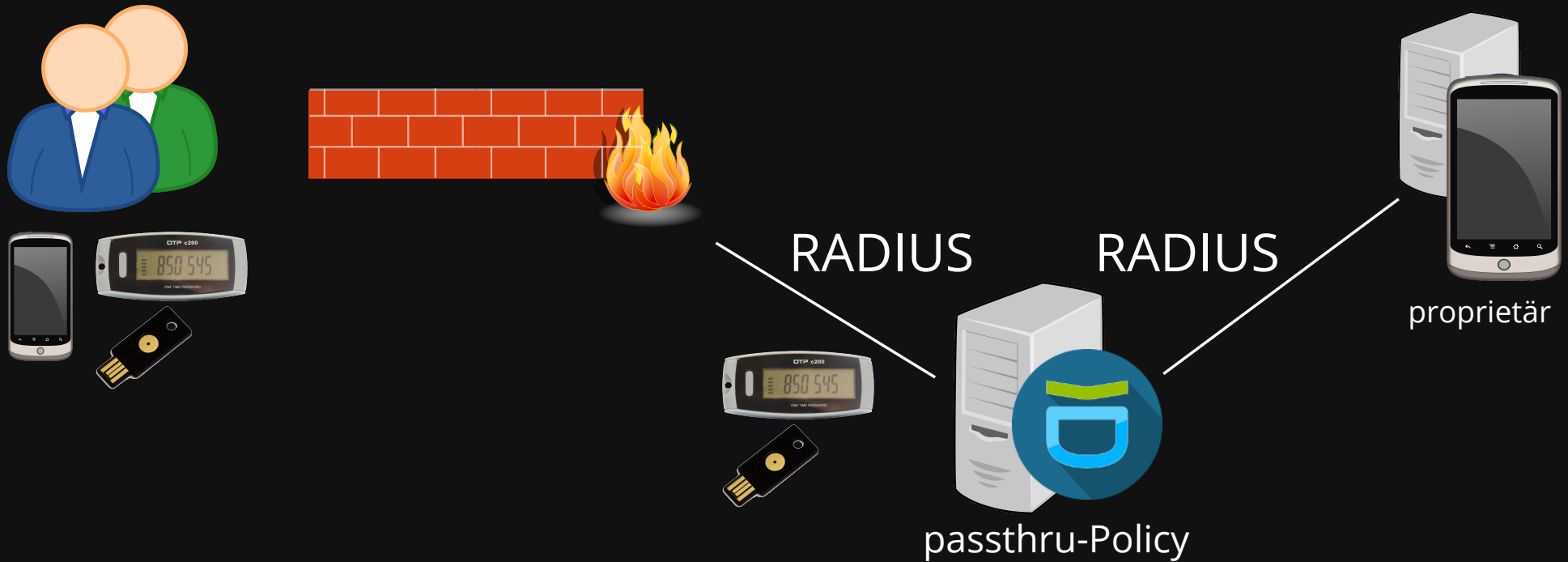
RADIUS



Migration



Migration



Migration



RADIUS



Ausblick

Danke!



privacy**ID3A**
AUTHENTICATION S Y S T E M

<https://privacyidea.org>

<https://github.com/privacyidea>