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Multi-Factor Authentication with TOTP (Time Based One-Time Password)

Multi-Factor Authentication with TOTP

Multi-factor authentication is used to make logging into Projectile more secure.

Normally you log in to a website (with login name and password). This happens over a network connection and this is the 1st factor. Since this network connection can be intercepted, it is now common to use a 2nd factor for security, which runs through another device, another connection. Usually one uses a cell phone or a special device for this purpose.

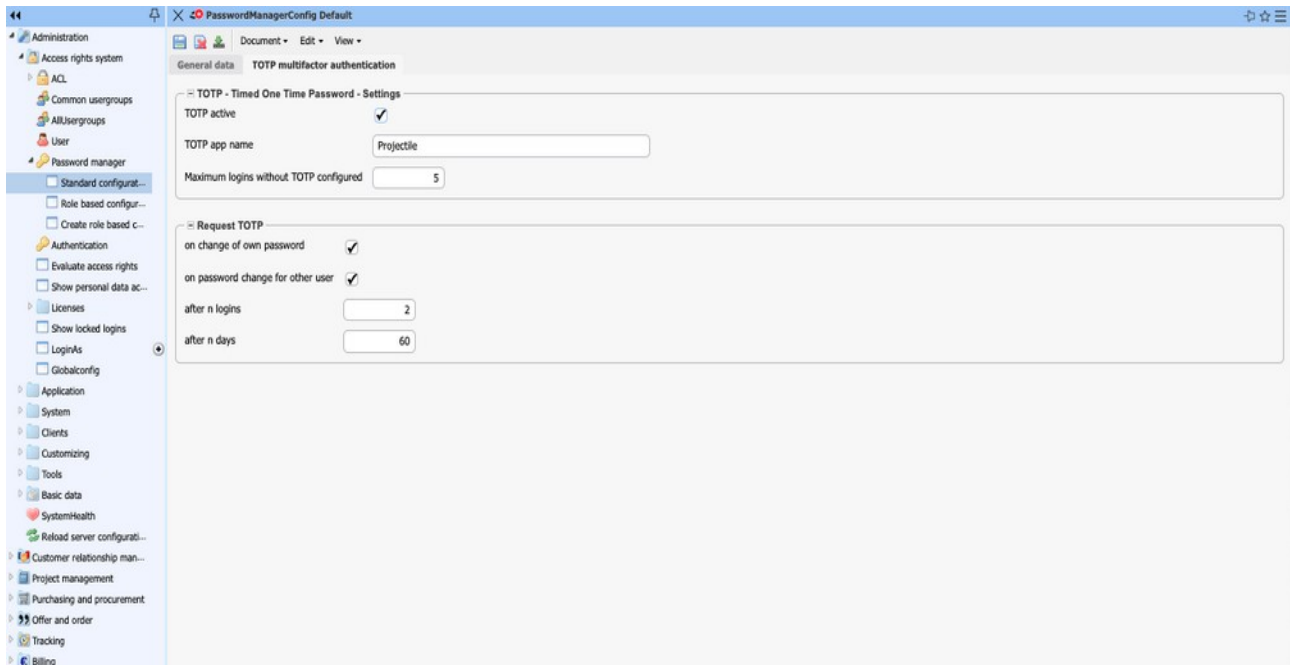
In the case of Projectile, there is an app on the cell phone called Authenticator.

A one-time password a password that is valid only once. Time-based means that it is calculated based on the current time.

Additionally, one has to register the cell phone beforehand. Through a QR code, the user is registered in the app and connected to Projectile and so the 2nd factor can give an additional security that only allowed people use Projectile.

Activating & Configuring the TOTP Module

A user with the appropriate authorization can configure the module in the password manager on the new "TOTP Multifactor Authentication" tab.



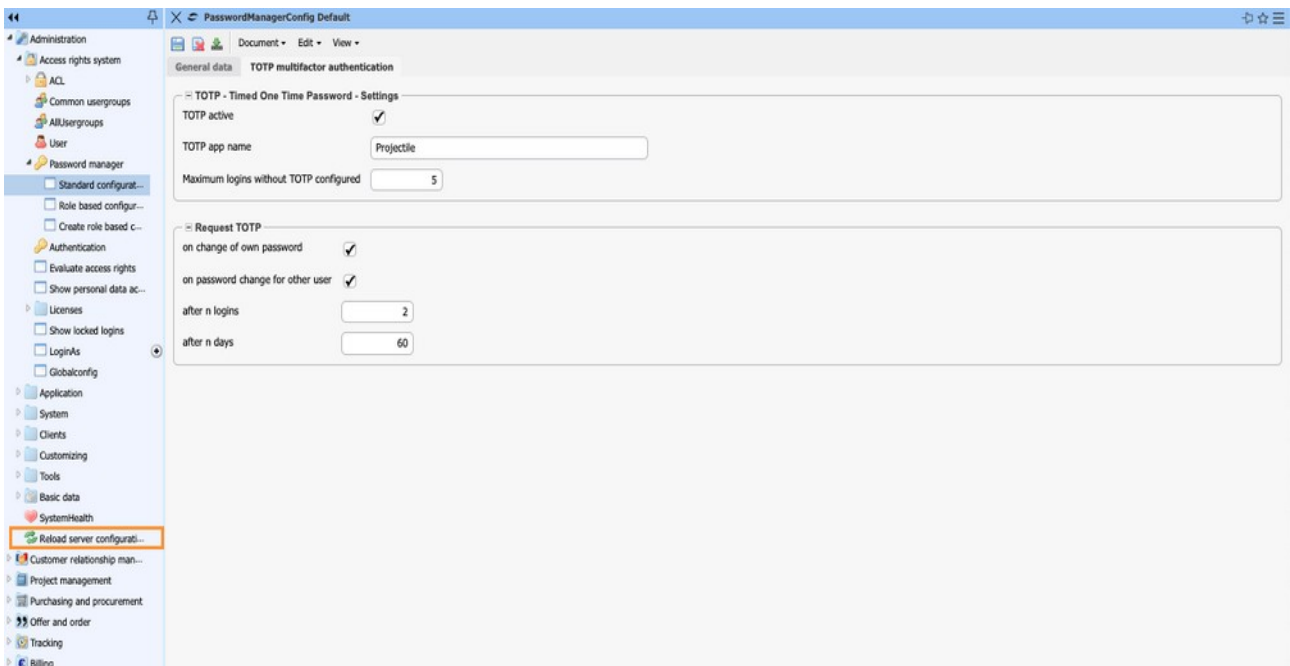
TOTP - Timed One Time Password - Settings:

- **TOTP active:** Here you can activate the module.
- **TOTP App Name:** The name that appears in the Authenticator app can be entered here. This facilitates the assignment if other programs are used that require this app.
- **Maximum logins without TOTP authentication configured:** How often can a user log in even without two-factor authentication.

Request TOTP:

- **on change of own password:** Here you can set whether two-factor authentication is required each time you change your own password.
- **on password change for other user:** Here you can set whether two-factor authentication is required when setting a password for another user.

- **after n logins:** At this point it is possible to set after how many logins the two-factor authentication is necessary.
- **after n days:** At this point it is possible to set after how many days the two-factor authentication is necessary.



The module is now completely configured. Now it must be saved and the configuration must be reloaded. From the next login this module is active.

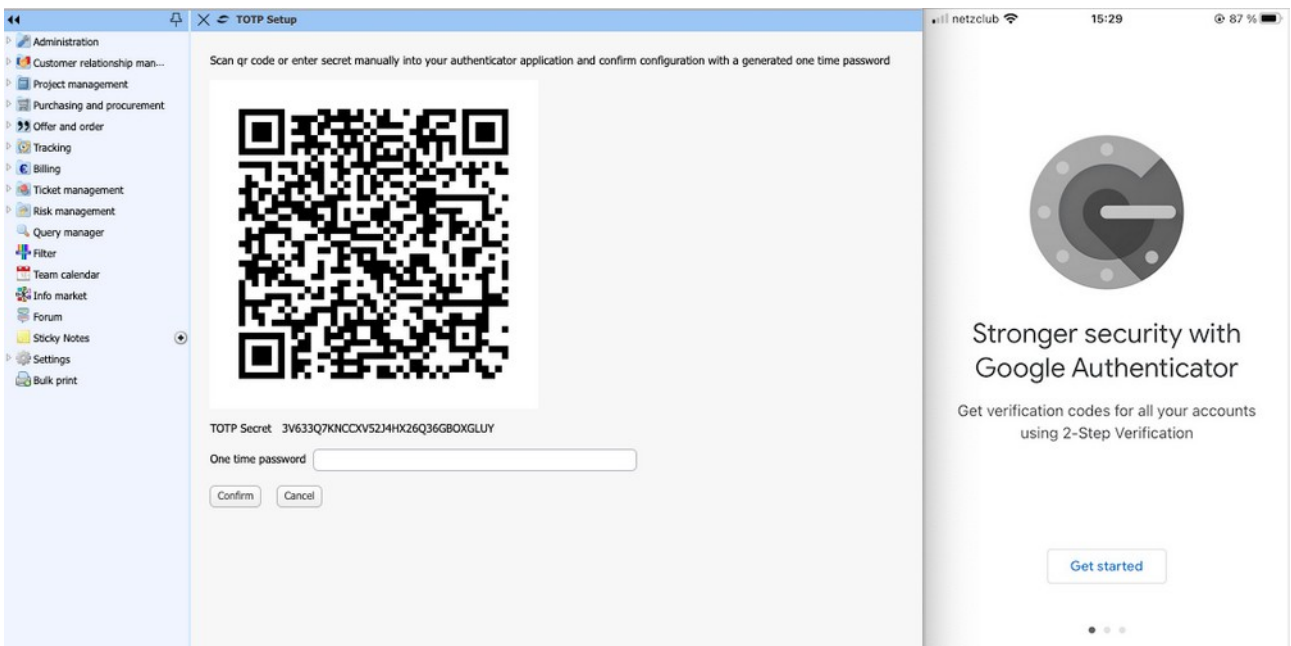
Setting Up Authentication

The user needs to set up the device for two-factor authentication only once. One needs to perform the setup process only once.

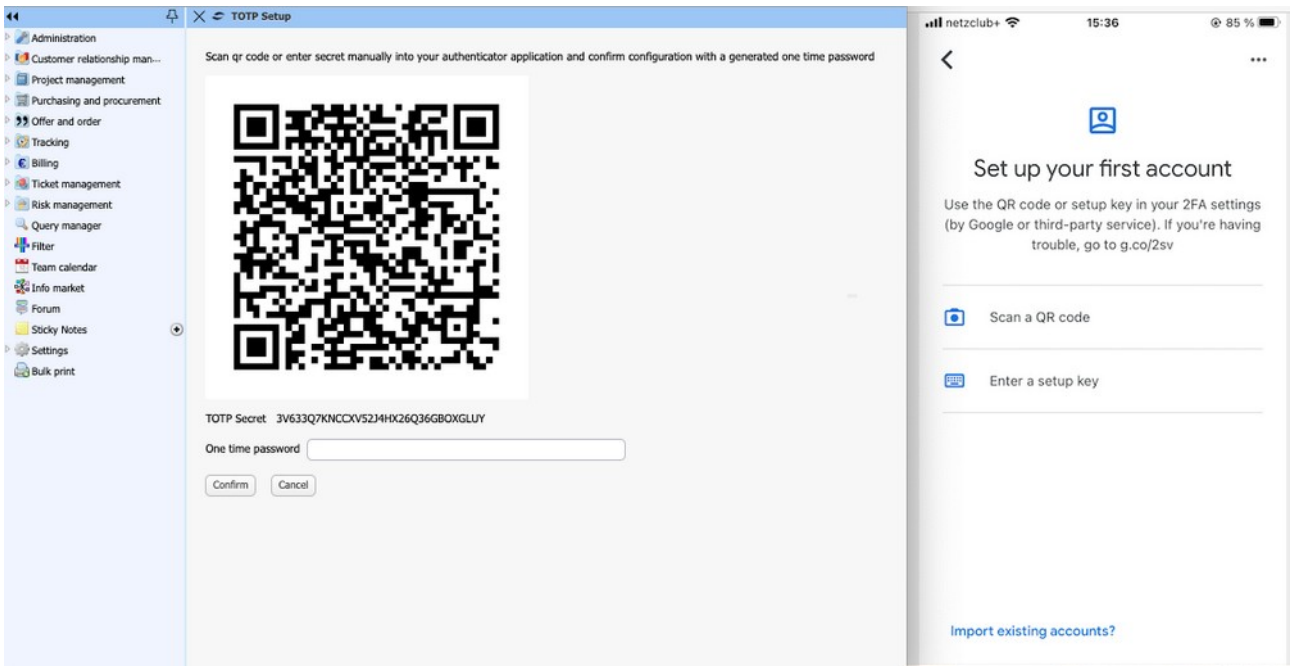
After logging in, a QR code appears in Projectile.



To the right you can see the Google Authenticator app on a smartphone.

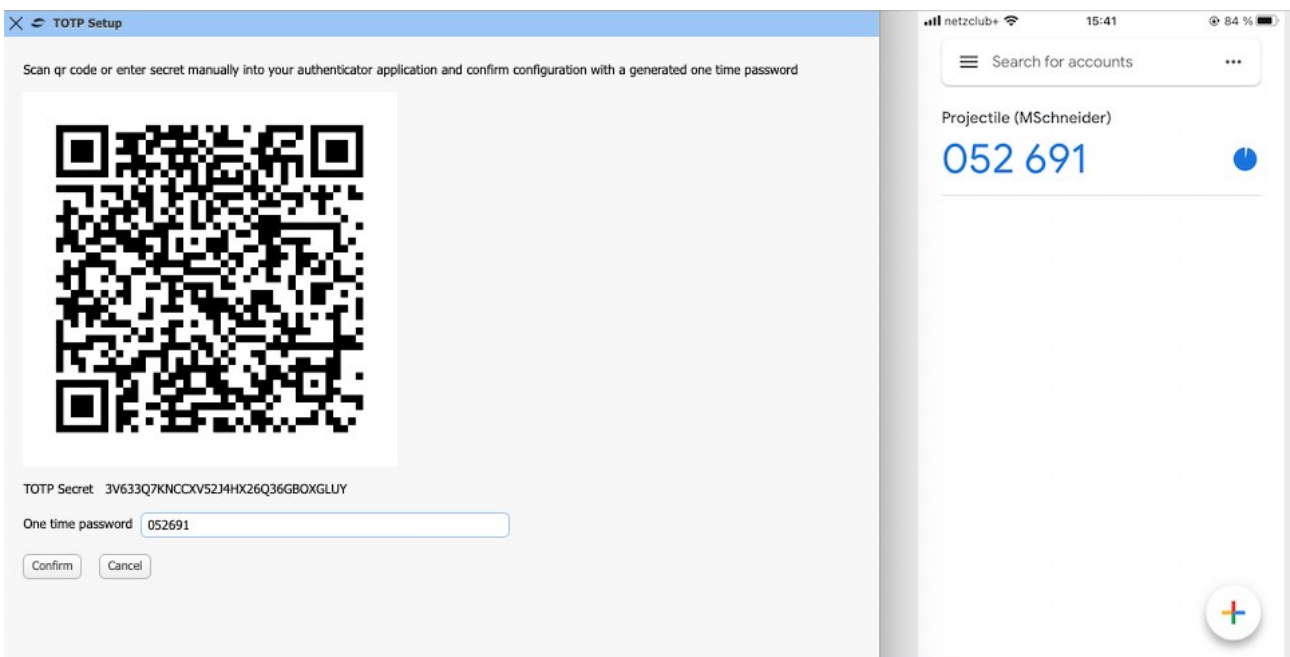


Now, to create an account on this app, you need to scan the QR code with your smartphone.

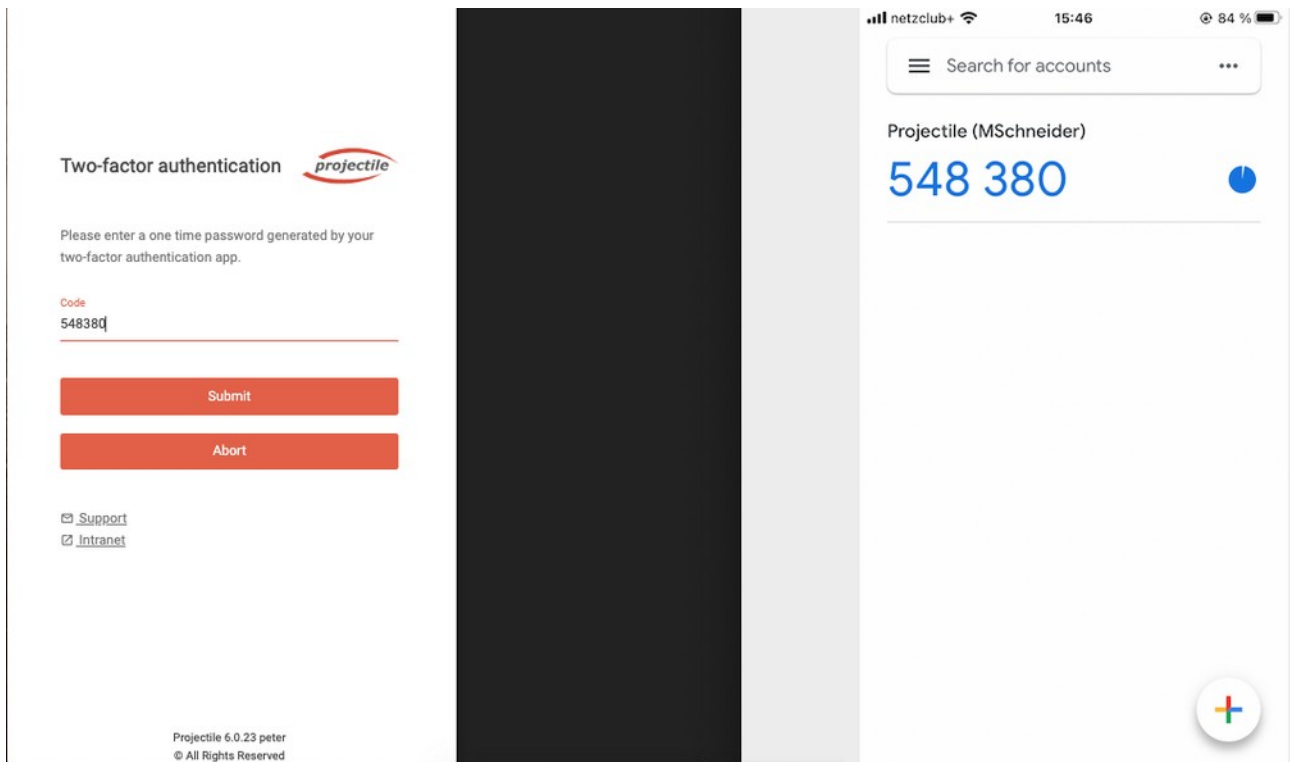


Now an account has been created. Here you can also see the TOTP application name that you set up during the module configuration and the user in brackets.

One must now enter the one-time password (here: 052 691) under the QR code.

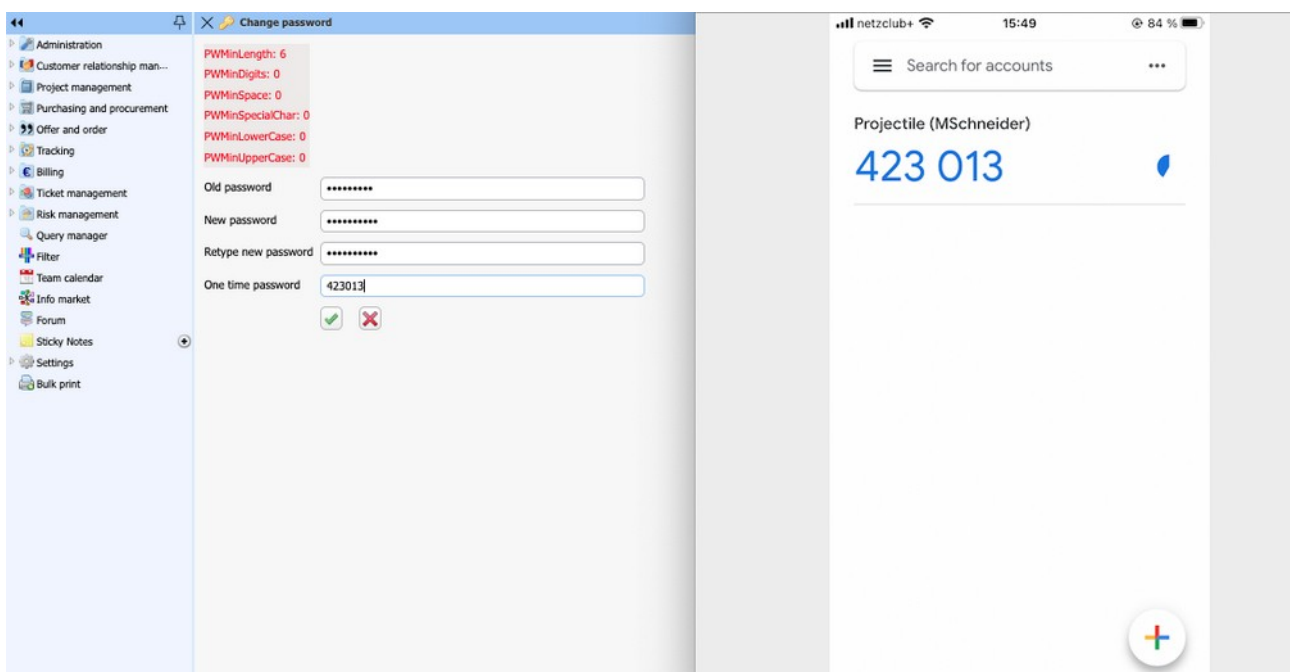


Now the smartphone has been set up for two-factor authentication. If you want to log in now, the following login screen appears.



After entering the required one-time password, Projectile can be used as usual.

Here you can see once again that - if it was configured like this in the module - you have to enter a one-time password when you change the password.



If the user has no access to his registered smartphone once, the admin can re-set the login attempts.

The screenshot shows the 'User Jansen Heidi' configuration page. The 'Logins without multi-factor authentication' field is highlighted with a red box and contains the value '1'. The 'Last successful multi-factor authentication' field is also highlighted with a red box and contains a date.

Login	Description	Default user role	Status
1	berater	*Beratung	09 - Mitarbeiter...
2	entwicklung	*Entwicklung	09 - Mitarbeiter...
3	support	*Support	09 - Mitarbeiter...
4	frank	Behn Arvid	09 - Mitarbeiter...
5	hannah	Dohle Hannah	08 - Projektleite...
6	hans	Eilers Hans	08 - Projektleite...
7	shift	Ext-Shift	09 - Mitarbeiter...
8	heiner	Franke Heiner	08 - Projektleite...
9	admin	Jahnke Kevin	02 - Manageme...
10	heidi	Jansen Heidi	03 - PMO Proje...
11	jva	Java	09 - Mitarbeiter...
12	maria	Klatt Maria	08 - Projektleite...
13	fritz	Klausen Fritz	03 - PMO Proje...
14	mahler	Mahler M.	02 - Manageme...
15	gabi	Maier Gabi	05 - Backoffice ...
16	jan	Meier Jan	09 - Mitarbeiter...
17	jmeier	Meier Jana	08 - Projektleite...
18	meier	Meier Jana	03 - PMO Proje...
19	tamara	Meier Tamara	08 - Projektleite...
20	marjan	Möller Marjan	09 - Mitarbeiter...
21	klaus	Müller Klaus	09 - Mitarbeiter...
22	frau	Otto Frauke	08 - Projektleite...
23	rene	Pfisterer Rene	08 - Projektleite...
24	olivia	Raber Olivia	08 - Projektleite...
25	peter	Schaub Peter	02 - Manageme...
26	norbert	Schmidt Norbert	02 - Manageme...
27	paula	Schmidt Paula	08 - Projektleite...
28	MSchneider	Schneider Maria	01 - Administra...

This enables the user to log in once without the two-factor authentication.

The screenshot shows the 'User Jansen Heidi' configuration page. The 'Logins without multi-factor authentication' field is highlighted with a red box and contains the value '0'. The 'Last successful multi-factor authentication' field is also highlighted with a red box and contains a date.

If the user has no access to his smartphone anymore, the admin has the possibility to delete the TOTP registration for this user.

The screenshot shows a user management interface. On the left, a navigation pane lists various system components. The main area displays a table of users with columns for Login, Description, Default user role, and Status. The user 'entwicklung' is highlighted. On the right, the configuration page for 'User Jansen Heidi' is shown. The 'Actions' menu is open, and the option 'Reset TOTP registration - user has to register with app again' is highlighted in orange. Other options in the menu include 'Clear password history', 'ForcePortalTemplate', 'Show user prefs', and 'show Group'. The configuration page also shows fields for Status, Administrative access, Email, Language, Locale, IsLoggedIn, PasswordChanged, LastLogin, SSOKey, ClientAccessMask, IntroTemplate, Portal-Template, ForceIntroTemplate, and ForcePortalTemplate. A section for 'TOTP multifactor authentication' includes a checkbox for 'No multi-factor authentication required', a field for 'Logins without multi-factor authentication' (set to 0), and a field for 'Last successful multi-factor authentication'.

Login	Description	Default user role	Status
1	berater	*Beratung	09 - Mitarbeiter...
2	entwicklung	*Entwicklung	09 - Mitarbeiter...
3	support	*Support	09 - Mitarbeiter...
4	frank	Behn Arvid	09 - Mitarbeiter...
5	hannah	Dohle Hannah	08 - Projektleite...
6	hans	Eilers Hans	08 - Projektleite...
7	shift	Ext-Shift	09 - Mitarbeiter...
8	heiner	Frank Heiner	08 - Projektleite...
9	admin	Jahnke Kevin	02 - Manageme...
10	heidi	Jansen Heidi	03 - PMO Proje...
11	jva	Java	09 - Mitarbeiter...
12	maria	Klatt Maria	08 - Projektleite...
13	fritz	Klausen Fritz	03 - PMO Proje...
14	mahler	Mahler M.	02 - Manageme...
15	gabi	Maier Gabi	05 - Backoffice ...
16	jan	Meier Jan	09 - Mitarbeiter...
17	jmeier	Meier Jana	08 - Projektleite...
18	meier	Meier Jana	03 - PMO Proje...
19	tamara	Meier Tamara	08 - Projektleite...
20	marjan	Möller Marjan	09 - Mitarbeiter...
21	klaus	Müller Klaus	09 - Mitarbeiter...
22	frau	Otto Frauke	08 - Projektleite...
23	rene	Pfisterer Rene	08 - Projektleite...
24	olivia	Raber Olivia	08 - Projektleite...
25	peter	Schaub Peter	02 - Manageme...
26	norbert	Schmidt Norbert	02 - Manageme...
27	paula	Schmidt Paula	08 - Projektleite...
28	MSchneider	Schneider Maria	01 - Administra...

At the next login, the QR code appears again and the user has to register a device again.

The screenshot shows the 'TOTP Setup' dialog box. It contains a QR code for scanning. Below the QR code, the 'TOTP Secret' is displayed as 'XC47XBNQZ4X2MJBKTC5YF6L5ESH265G'. There is a text input field for 'One time password'. At the bottom, there are 'Confirm' and 'Cancel' buttons. The dialog box also includes instructions: 'Scan qr code or enter secret manually into your authenticator application and confirm configuration with a generated one time password'.

An admin can also exempt a particular user from multi-factor authentication by enabling "No multi-factor authentication required".

Administration

- Access rights system
 - ACL
 - Common usergroups
 - AllUsergroups
 - User**
 - Password manager
 - Authentication
 - Evaluate access rights
 - Show personal data ac...
 - Licenses
 - Show locked logins
 - LoginAs
 - Globalconfig
- Application
- System
- Clients
- Customizing
- Tools
- Basic data
- SystemHealth
 - Reload server configurati...
- Customer relationship man...
- Project management
- Purchasing and procurement
- Offer and order
- Tracking
- Billing
- Ticket management
- Risk management
- Query manager

Query for User (33 Results)

Login	Description	Default user role	Statu
1	berater	*Beratung	09 - Mitarbeiter...
2	entwicklung	*Entwicklung	09 - Mitarbeiter...
3	support	*Support	09 - Mitarbeiter...
4	frank	Behn Arvid	09 - Mitarbeiter...
5	hannah	Dohle Hannah	08 - Projektleite...
6	hans	Eilers Hans	08 - Projektleite...
7	shift	Ext-Shift	09 - Mitarbeiter...
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19	tamara	Meier Tamara	08 - Projektleite...
20	marjan	Möller Marjan	09 - Mitarbeiter...
21	klaus	Müller Klaus	09 - Mitarbeiter...
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25	peter	Schaub Peter	02 - Manageme...
26	norbert	Schmidt Norbert	02 - Manageme...
27	paula	Schmidt Paula	08 - Projektleite...
28	MSchneider	Schneider Maria	01 - Administra...

User Eilers Hans

Status

Administrative access

Email

Language

Locale

IsLoggedIn

PasswordChanged

LastLogin

SSOKey

ClientAccessMask

IntroTemplate

Portal-Template

ForceIntroTemplate

ForcePortalTemplate

TOTP multifactor authentication

No multi-factor authentication required

Logins without multi-factor authentication

Last successful multi-factor authentication