

See also [Shared Secrets](#)

As of 2014-07-29, this is a tool for developers only. You need to write code for the external system to access the information. See developer documentation at [User Encryption](#). The system is designed so that encryption can later be implemented for data in Tiki (files, tracker items, etc.)

## User Encryption

User encryption aims to provide secure, personal storage of sensitive data, e.g. external usernames and passwords.

## About User Encryption

When linking multiple systems together, it is often required to have a username and a password for the target system available, in order to login. The other system can be an external database, a web service, etc.

User Encryption enables secure storage of such external log-in credentials. The decryption key is **not** stored by Tiki, and it is only available when the user is logged in.

Notes:

- This is a new and experimental feature in [Tiki 13](#) and has been [backported](#) for [Tiki 12.2](#), so it is available (as experimental) in the LTS version
- Use the Domain Password module to allow the user to specify username and password
- CryptLib must be integrated by coding to access the domain. CryptLib provides the decrypted domain credentials

See also [User Encryption](#).

## Password Domains

Each linked system makes up a "password domain". Multiple users can log in to a domain. A password domain has a name. The name must be unique.

The interface to a linked system, uses the password domain name to look-up a user's credentials for the system.

The module "Domain Password", prompts the user for a password.

The password is encrypted and saved associated with the domain specified in the module.

## Configuring Password domains

Configure in the Admin / Security panel.

☒ **User Encryption** ⓘ ⚠ ↻  
*Enable personal, secure storage of sensitive data, e.g. passwords*  
  
 Requires the mcrypt PHP extension for cryptation. [Check Now](#)  
 . You may also want to add the "Domain Password" module somewhere.  
  
 Comma separated list of password domains, e.g.: Company ABC,Company XYZ  
 The user can add passwords for a registered password domain.  
  
 Password Domains:  ⓘ ↻ ✓

Click to expand

The names of the password domains must be unique.

## Specifying domain credentials

The module "Domain Password" allows users to specify a password (and possibly a username) for a domain. Only defined password domains can be specified.

Insert Module ✕

Display a module ⓘ
 

Module Name	<input type="text" value="Domain Password (domain_password)"/> <div>Store personal passwords for other domains securely in Tiki.</div>
Domain	<input type="text" value="Database X"/> <div>System the credentials apply for. The name must match a defined Password Domain.</div>
Use current user	<input type="text"/> <div>Use the currently logged in user. The username is not editable. (y/n) Default: y</div>
Can Update	<input type="text" value="y"/> <div>If "y" the user can update the values, otherwise the display is read-only (y/n). Default: n</div>

Advanced options

By default the currently logged in Tiki username will be used. By setting "Use current user" = "n", the user must also specify a username.

The view mode is displayed initially. The user can choose to edit the credentials, if the module configuration allows it.

Domain Password

Domain Database X  
 Username test  
 Edit

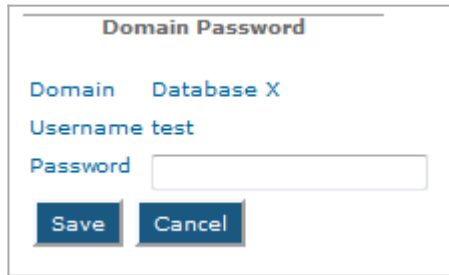
If the password domain is misconfigured, an error message is displayed.

Domain Password

Domain is not defined  
 Domain Database XYZ  
 Username arild  
 Edit

If the user click edit, the credentials can be edited.

If the current Tiki user is being used, only the password can be edited.

A screenshot of a 'Domain Password' dialog box. The title bar says 'Domain Password'. Inside, there are labels for 'Domain' and 'Database X' in blue. Below them, 'Username test' is displayed in blue. The 'Password' label is in blue, followed by a text input field. At the bottom, there are two buttons: 'Save' and 'Cancel', both with blue text on a dark background.

Domain Password

Domain Database X

Username test

Password

Save Cancel

## Code integration

See [User Encryption @ dev.tiki.org](https://dev.tiki.org/User%20Encryption)