See also: PluginTOTP

Two-Factor Authentication (2FA) is a security mechanism that requires users to provide two different authentication factors to verify their identity. This significantly enhances security by adding an extra layer of protection beyond just a password.

Starting with Tiki 21, 2FA was introduced to strengthen the security of user accounts during authentication, helping to prevent SIM Swap Scam.

Tiki uses pragmarx/google2fa, a PHP implementation of two widely used algorithms for generating one-time passwords (OTPs) in 2FA systems:

TOTP (Time-based One-time Password) - open standard documented in RFC 6238.

TOTP is similar to HOTP but incorporates a time factor.

- Algorithm: Based on HOTP
- Input: Secret key + Current timestamp
- Output: 6-8 digit numeric code
- Validity: Typically 30 seconds
- Use Case: Real-time applications requiring immediate validation.

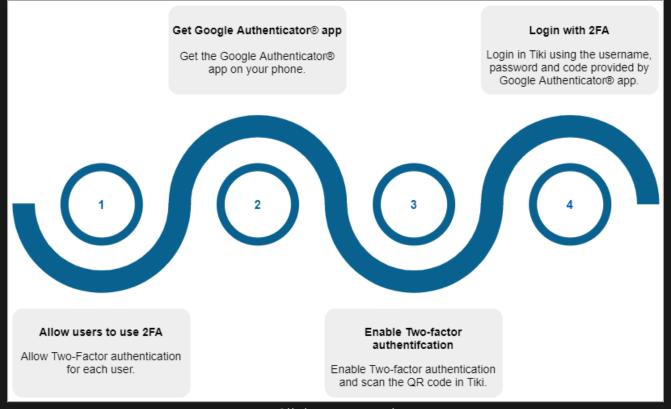
HOTP (HMAC-based One-time Password). - RFC 4226 HOTP generates a one-time password using a secret key and a counter.

- Algorithm: Based on HMAC-SHA1
- Input: Secret key + Counter value
- Output: 6-8 digit numeric code

- Validity: Until used (not time-dependent)
- Use Case: Ideal for systems where time synchronization isn't critical or possible

Tiki primarily uses TOTP, which offers several advantages:

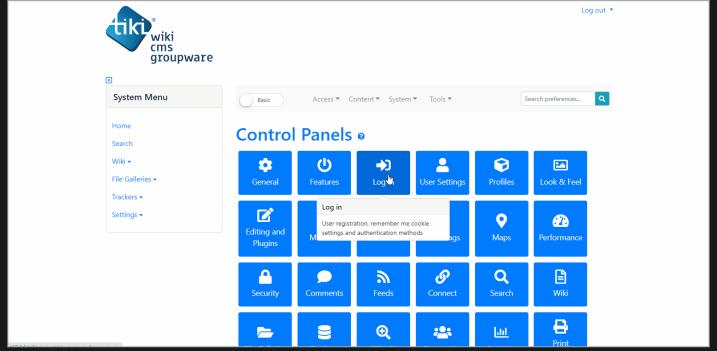
- 1. Enhanced Security: Protects against unauthorized access even if passwords are compromised.
- 2. Flexibility: TOTP adds an additional layer of security by being time-based
- 3. Cross-Platform Compatibility: Supported by a wide range of devices and applications.
- 4. User-Friendly: Easy to implement and use with mobile apps like Google Authenticator.
- 5. Compliance: Helps meet regulatory requirements for secure authentication.
- 6. And you can even use another Tiki instance via PluginTOTP.



Click to expand

STEPS

Step 1: First enable the ÃfÆ'Æâ€™ Ãf'Ã,¢ÃfÆ'Ã,¢ÃfÆ'Ã,¢Ãf¢Ã¢â€šÂ¬Ã...¡Ãf'Ã,¬ÃfÆ'ââ,¬Â¦Ãf¢Ã¢ã€šÂ¬Ã..."Allow users to use 2FAÃfÆ'Æâ€™ Ãf'Ã,¢ÃfÆ'Ã,¢Ãf¢Ã¢Ã€ŠÂ¬Ã...¡Ãf'Ã,¬ option in the "Log In" feature in your Tiki, go to Settings ÃfÆ'Æâ€™ Ãf'Ã,¢ÃfÆ'Ã,¢Ãf¢Ã¢â,¬Å¡Ã,¬ ÃfÆ'Ã,¢Ãf¢Ã¢â,¬Å¡Ã,¬Ãf¢Ã¢â,¬Å³¾Ã,¢ Control Panels ÃfÆ'Æâ€™ Ãf'Ã,¢ÃfÆ'Ã,¢Ãf¢Ã¢â,¬Å¡Ã,¬ ÃfÆ'Ã,¢Ãf¢Ã¢â,¬Å¡Ã,¬Ãf¢Ã¢â,¬Å³¼Ã,¢ Log In ÃfÆ'Æâ€™ Ãf'Ã,¢ÃfÆ'Ã,¢Ãf¢Ã¢â,¬Å¡Ã,¬ ÃfÆ'Ã,¢Ãf¢Ã¢â,¬Å¡Ã,¬Ãf¢Ã¢â,¬Å¾Ã,¢ General Preferences tab ÃfÆ'Æâ€™ Ãf'Ã,¢ÃfÆ'Ã,¢Ãf¢Ã¢â€šÂ¬Ã...¡Ãf'Ã,¬ÃfÆ'ââ,¬Â¦Ãf¢Ã¢â€šÂ¬Ã..."tiki-admin.php?page=login#contentadmin_login-1" (e.g http://www.example.com/tiki-admin.php?page=login#contentadmin_login-1) with ÃfÆ'Æâ€™ Ãf'Ã,¢ÃfÆ'Ã,¢Ãf¢Ã¢â€šÂ¬Ã...¡Ãf'Ã,¬ÃfÆ'ââ,¬Â¦Ãf¢Ã¢â€šÂ¬Ã..."Preference FiltersÃfÆ'Æâ€™ Ãf'Ã,¢ÃfÆ'Ã,¢Ãf¢Ã¢ã€šÂ¬Ã...¡Ãf'Ã,¬ÃfÆ'ââ,¬ to Avanced.



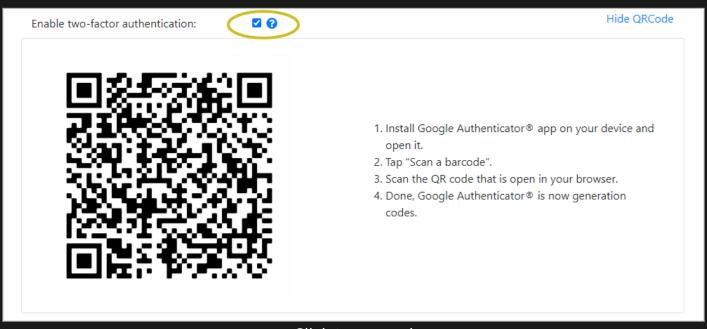
Click to expand

Step 2: Next, install Google AuthenticatorÃfÆ'Æâ€™Ãf¢Ã¢â€šÂ¬Ã…¡ÃfÆ'ââ,¬Å¡Ãf'Ã,® App on your mobile phone. See how to install it here.

Step 3: Check the ÃfÆ'Æâ€™ Ãf'Ã,¢ÃfÆ'Ã,¢Ãf¢Ã¢Â€ŠÂ¬Ã...¡Ãf Ã,¬ÃfÆ'ââ,¬Â¦Ãf¢Ã¢Ã¢Â€ŠÂ¬Ã..."Enable two-factor authenticationÃfÆ'Æâ€™ Ãf'Ã,¢ÃfÆ'Ã,¢Ãf¢Ã¢Ã¢â€šÂ¬Ã...¡Ãf'Ã,¬ option in the ÃfÆ'Æâ€™ Ãf'Ã,¢ÃfÆ'Ã,¢Ãf¢Ã¢Ã€ŠÂ¬Ã...¡Ãf'Ã,¬ AfÆ'ââ,¬Â¦Ãf¢ŠÁ,¬ option in the AfÆ'Æâ€™ Ãf'Ã,¢ÃfÆ'Ã,¢Ãf¢Ã¢Ã€ŠÂ¬Ã...¡Ãf'Ã,¬ÃfÆ'ââ,¬Â¦Ãf¢ŠÃ,¬ page, the AfÆ'Æâ€™ Āf'Ã,¢ÃfÆ'Ã,¢Ãf¢Ã¢Ã£°Ã,°Ã£°Ã,¢Ãf¢Ã¢Ã€ŠÂ¬Ã...¡Ãf'Ã,¬ÃfÆ'â'¬Ã..."Account InformationÃfÆ'Æâ€™ Ãf'Ã,¢Ãf¢Ã¢Ã£°Ã,¢Ãf¢Ã¢Ã¢Ã£°ŠÂ¬Ã...¡Ãf'Ã,¬ tab and click on ÃfÆ'Æâ€™ Ãf'Ã,¢ÃfÆ'Ã,¢Ãf¢Ã¢ã€šÂ¬Ã...¡Ãf'Ã,¬ÃfÆ'ââ,¬Â¦Ãf¢Ã¢Â€ŠÂ¬Ã..."Save changesÃfÆ'Æâ€™ Ãf'Ã,¢ÃfÆ'Ã,¢Ãf¢Ã¢ã€šÂ¬Ã...¡Ãf'Ã,¬ button. Note that the current password is required to make changes.

At this step, you need to connect Tiki and the Google AuthenticatorÃfÆ'Æâ€™Ãf¢Ã¢â€šÂ¬Ã…¡ÃfÆ'ââ,¬Å¡Ãf'Ã,® application by scanning the QR Code generated in the

ÃfÆ'Æâ€™Ãf'Ã,¢ÃfÆ'Ã,¢Ãf¢Ã¢â€šÂ¬Ã...¡Ãf'Ã,¬ÃfÆ'ââ,¬Â¦Ãf¢Ã¢â€šÂ¬Ã..."User PreferencesÃfÆ'Æâ€™Ãf'Ã,¢ÃfÆ'Ã,¢Ãf¢Ã¢ã€šÂ¬Ã...¡Ãf'Ã,¬ page. Click on "Show QRCode" to display the QR Code, scan it using the application you installed in step 2.



Click to expand

Step 4: Finally, when authenticating on page "Log InÃfÆ'Æâ€™Ãf'Ã,¢ÃfÆ'Ã,¢Ãf¢Ã¢â€šÂ¬Ã...¡Ãf'Ã,¬ (e.g. http://www.example.com/tiki-login_scr.php?twoFactorForm), take the code generated by Google AuthenticatorÃfÆ'Æâ€™Ãf¢Ã¢â€šÂ¬Ã...¡ÃfÆ'ââ,¬Å¡Ãf'Ã,® App and enter it in the field ÃfÆ'Æâ€™Ãf'Ã,¢ÃfÆ'Ã,¢Ãf¢Ã¢â€šÂ¬Ã...¡Ãf'Ã,¬ÃfÆ'ââ,¬Â¦Ãf¢Ã¢Â¢â€šÂ¬Ã..."Two-factor Authenticator CodeÃfÆ'Æâ€™Ãf'Ã,¢ÃfÆ'Ã,¢Ãf¢Ã¢Ã¢Ã€ŠÂ¬Ã...¡Ãf'Ã,¬Ã...¡Ãf'Ã,¬Ã...Â;Ãf'Ã,¬.

Username:		
I		
Password:		
I forgot my passwo	rd	
Two-factor Authen	ticator Code:	
	Log in	

Click to expand

By adhering to standardized algorithms like TOTP and HOTP, 2FA solutions become both secure and flexible. These methods make user authentication robust and effective.

RELATED LINKS

Original commit: http://sourceforge.net/p/tikiwiki/code/70793