

How to set up one-time password (TOTP) (WinAuth)

TUT Information media center

At our university, we have introduced two-factor authentication (hereinafter referred to as TOTP authentication) using a one-time password based on the time of day in order to ensure identity verification and prevent unauthorized use when using important systems. In this authentication, in addition to the user name and password that the user remembers, a one-time password that can be generated only by the smartphone owned by the user is used to achieve strong authentication. Therefore, it is necessary to install an application for using TOTP authentication on a smartphone etc. in advance and register it with the University's user authentication system. This section describes the procedure for registering the one-time password application WinAuth running on Windows in the authentication infrastructure system.

In some systems, the authentication method is switched depending on the type of access source network (on-campus or off-campus). For example, on-campus networks can be authenticated only with a user name and password, but off-campus networks require TOTP authentication in addition to that. In this judgment, the following networks are classified as "off-campus".

- Connection from off-campus by VPN
- Wired guest network (Village Tenpaku etc.)
- Wireless network SSID: eduroam
- Wireless network SSID: tutguest

One-time password application installation and registration procedure

1. Connect the Windows PC used for the setting work to the campus network.
2. Make sure the date and time on your Windows PC are correct.
3. Install WinAuth on your Windows PC. Go to the homepage below and download the latest version of "Download Latest Stable Version". Unzip the downloaded ZIP file and copy it to an appropriate folder (such as the folder where the free software is located or the desktop).

- WinAuth

<https://github.com/winauth/winauth>

4. Display the "User Profile Maintenance" page in the browser of the PC.
To display the "User Profile Maintenance" page, click "Change password" in the quick menu on the homepage of the Information Media Center (<https://imc.tut.ac.jp/>).
5. Click Register One-Time Password App on the User Profile Maintenance page.

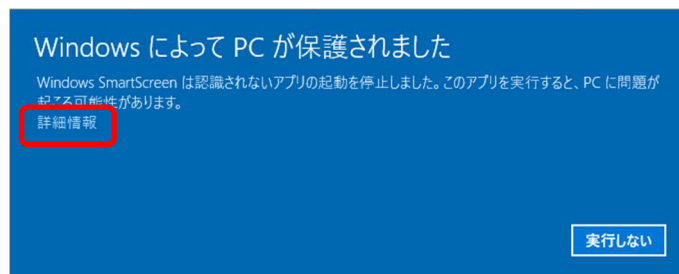
※The "Register One Time Password App" page cannot be accessed from outside the university.

6. The QR code and key will be displayed in the browser. Then, in step 8, enter the value of "key" in the WinAuth input field.

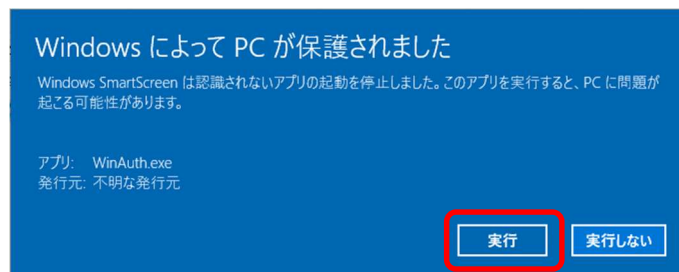


※Even if you have not registered the one-time password application, "Registered" may be displayed. In that case, click the "Reissue" button.

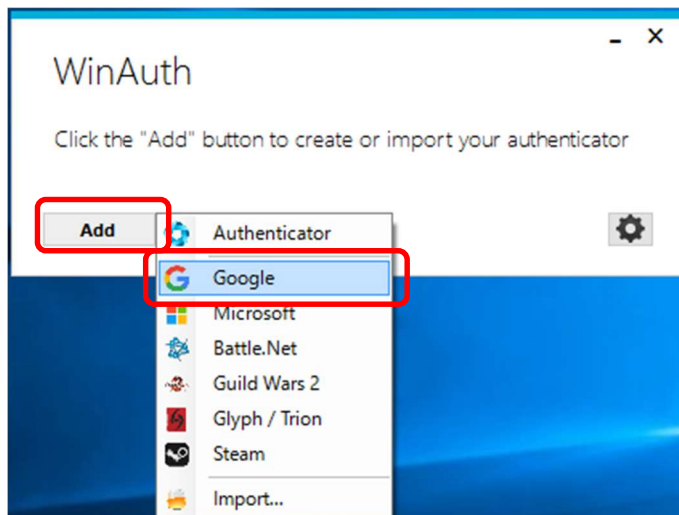
- Start "WinAuth". When it starts up, the following message will be displayed. Click "Details".



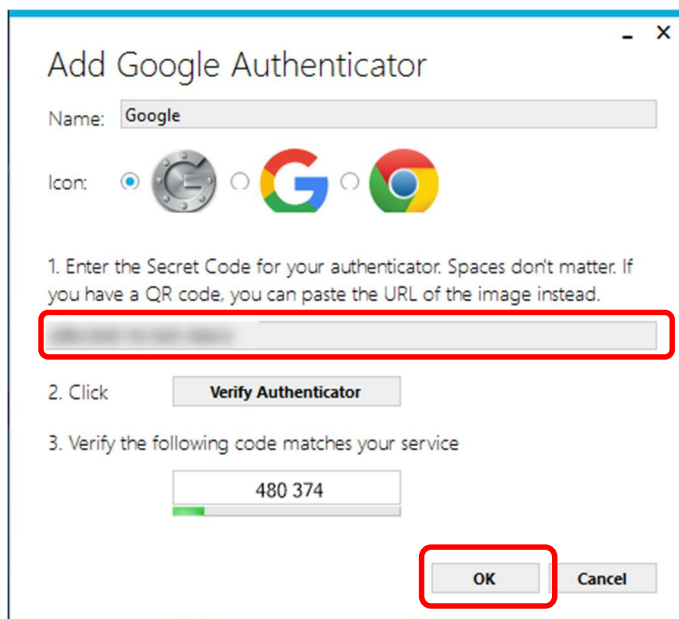
- Click "Details" and the following message will be displayed. Click the "Execute" button.



- Click 「Add」、select 「Google」



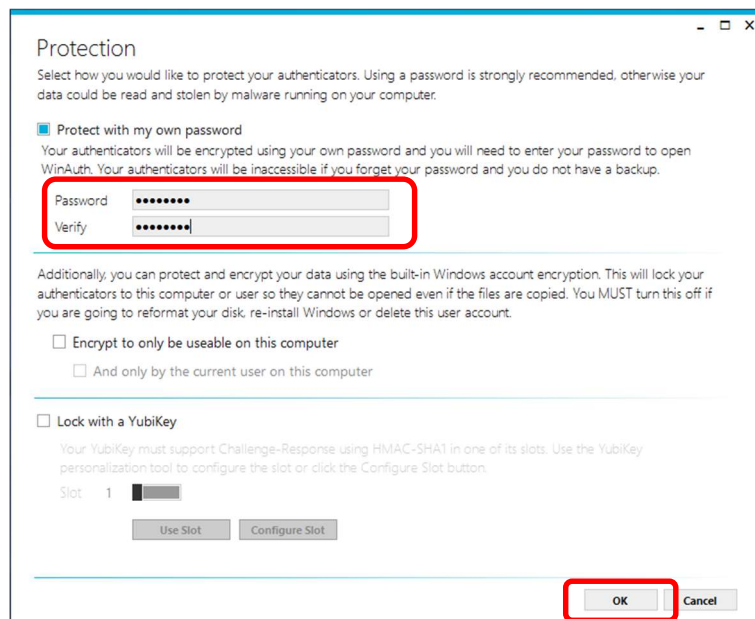
10. The following dialog will be displayed. Enter the value of the “key” described on the QR code page in the input field of “1” and click the “OK” button.



11. Click the "OK" button to display the following dialog. Set the password for starting "WinAuth" and click the "OK" button.

※This procedure is not mandatory, but it is included in the procedure because of information security considerations. If you do not want to enter a password when starting WinAuth, uncheck "protect with my own password". If you uncheck it, you will not be able

to enter in the password field.



Protection

Select how you would like to protect your authenticators. Using a password is strongly recommended, otherwise your data could be read and stolen by malware running on your computer.

☒ Protect with my own password

Your authenticators will be encrypted using your own password and you will need to enter your password to open WinAuth. Your authenticators will be inaccessible if you forget your password and you do not have a backup.

Password: [Redacted]
Verify: [Redacted]

Additionally, you can protect and encrypt your data using the built-in Windows account encryption. This will lock your authenticators to this computer or user so they cannot be opened even if the files are copied. You MUST turn this off if you are going to reformat your disk, re-install Windows or delete this user account.

☐ Encrypt to only be useable on this computer
☐ And only by the current user on this computer

☐ Lock with a YubiKey

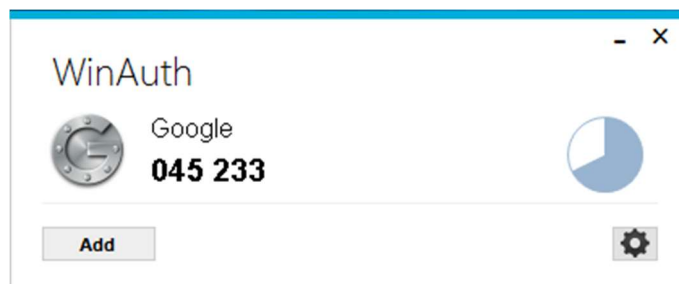
Your YubiKey must support Challenge-Response using HMAC-SHA1 in one of its slots. Use the YubiKey personalization tool to configure the slot or click the Configure Slot button.

Slot: 1 [Redacted]

Use Slot Configure Slot

OK Cancel

12. If the setting is successful, a 6-digit number will be displayed. Enter the number in the input field of the browser and click the "Register" button.

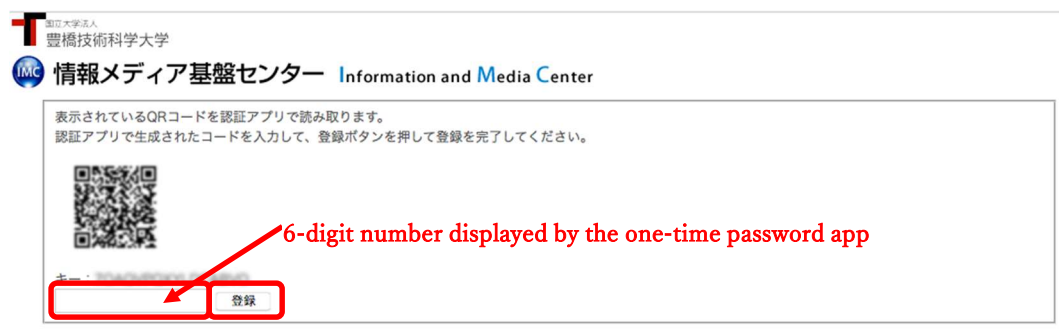


WinAuth

Google
045 233

Add

Settings



豊橋技術科学大学
情報メディア基盤センター Information and Media Center

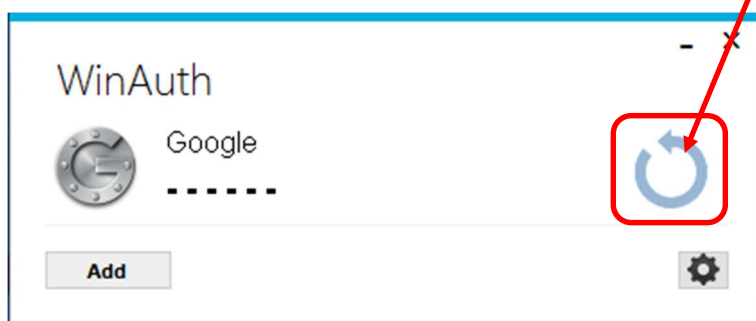
表示されているQRコードを認証アプリで読み取ります。
認証アプリで生成されたコードを入力して、登録ボタンを押して登録を完了してください。

QR Code

6-digit number displayed by the one-time password app

登録

13. If the 6 digit number is not displayed as shown below, click the arrow button.



14. Registration is completed when the message "Process completed successfully" is displayed on the browser. Click the "OK" button.