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
- 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.

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ようごそ さん		
A パスワード変更 Change Password	パスワード変更 Change Password	
YI プロファイルメンテナンス Profile Maintenance	氏名 - Name	
0000000	現在のバスワード - Old Password	
Show print accountin g information	新しいパスワード - New Password	
教育用システム ディスク	新しいパスワード(確認) - Confirm New Password	
利用状況 Disk usage on Educat ional System	◆バスワードは即任に反映されます◆ ◆Your password change is reflected immediately◆	
ワンタイレバスワードアプ リを登録する Register the one time password generator	 ● / スワードはへの送車を添たしてきび、● ● Your password must meet the following requirements ● • 12文学科上であること。 It must be longer than twelve letters. ● 英数字もしく(は以下の記号がらなること (全教文字・空白は使用不可)。 	
認知者でトリクスコードの 表示 Show your authentic ation matrix code	it must be composed of alphabet letters, numbers, and the following symbols. ("#59%()~~)(~(%{1+;}):<,>?/- · 大文学小文若許記号の方当建築を含めること。 It must include at least three types of characters among uppercase, lowercase, numbers and symbols. ·新しいパスワードは目パスワードと異なること。 It must be different from the old password. · 私人に変形文字が中にないスワードではないこと。 (ユーザDPで専家氏名と同し文字列は始末不可) It must not be easily guessed by others. (it cannot contain your username, surname, and given name)	
	保存	

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

 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.

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



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



9. 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.

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2. Click 3. Verify the f	Verify Authenticator Ollowing code matches you 480 374	IRL of the image	ge instead.		

 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.

	-		X
Protectio	n		
Select how you data could be	uwould like to protect your authenticators. Using a password is strongly recommended, otherwise your read and stolen by malware running on your computer.		
Protect wit	h my own password		
Your authentic WinAuth. Your	sators will be encrypted using your own password and you will need to enter your password to open r authenticators will be inaccessible if you forget your password and you do not have a backup.		
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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.

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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.