

EdLab

TwoFactor Authentication

1. Navigate to <https://twofa.cs.umass.edu:4000>
 - a. Input your **username** and **password**. Click **Login**.

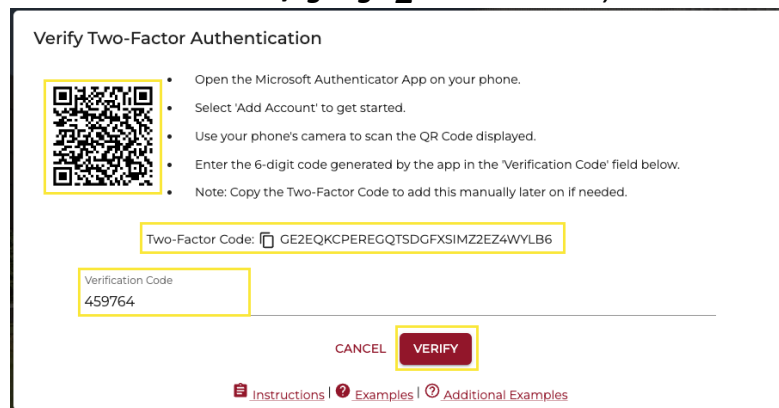
The screenshot shows the login page for CSCF - EdLab. The title is "CSCF - EdLab" and the subtitle is "Two-Factor Authentication Management". Below the subtitle is the text "Manage your two-factor authentication for SSH, SCP, SFTP, and other services." There are two input fields: "Username*" with the value "username" and "Password*" with masked characters. A red "LOGIN" button is centered below the fields. At the bottom, there are links for "Forgot Password?", "Instructions", "Examples", and "Additional Examples".

2. **Password Change** (note: you may or may not see this pop-up, dependent on if your password has expired or it's your first time logging in):
 - a. Input your **current password**, **new password**, then **confirm new password**.
 - i. (note: password must be at least 12 characters long and include uppercase, lowercase, number or special character.)

The screenshot shows the "Reset Password" form. The title is "Reset Password". Below the title is the text "Your password has expired and password needs to be reset." There are three input fields: "Old Password", "New Password", and "Confirm New Password", all with masked characters. A red "RESET" button is centered below the fields, and a "CANCEL" button is to its left. At the bottom, there are links for "Instructions", "Examples", and "Additional Examples".

3. Two-Factor Verification:

- a. Next, you should see a window that has two-factor verification. This will have a QR code and a textbox that allows you to input your two-factor code generated from your phone.
 - i. (Note: you may want to copy/save the Two-Factor Code listed here. You can manually add this code in your Microsoft Authenticator app or use the code elsewhere if needed in the future. You can also get this code later from the `.google_authenticator` file in your home directory - you can run the command `cat ~/.google_authenticator.`)



Verify Two-Factor Authentication

- Open the Microsoft Authenticator App on your phone.
- Select 'Add Account' to get started.
- Use your phone's camera to scan the QR Code displayed.
- Enter the 6-digit code generated by the app in the 'Verification Code' field below.
- Note: Copy the Two-Factor Code to add this manually later on if needed.

Two-Factor Code: GE2EQKCPEREGQTSDFXSIMZZE4WYLB6

Verification Code
459764

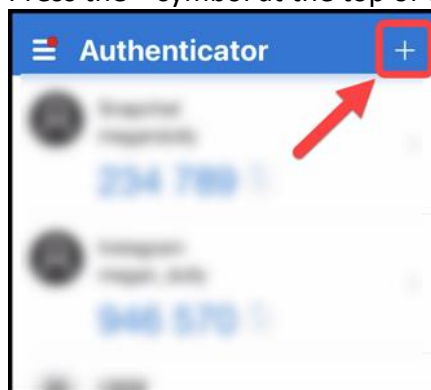
CANCEL VERIFY

[Instructions](#) | [Examples](#) | [Additional Examples](#)

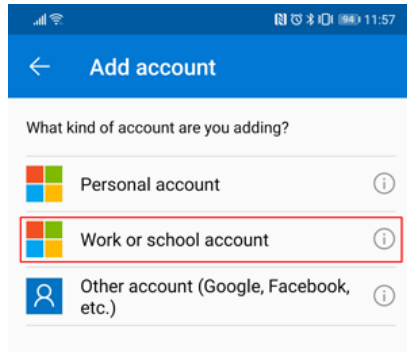
- b. Note: although the instructions overview Microsoft Authenticator, **alternative applications can be used** in the same methods of either Scanning a QR Code when available or Entering a Secret String Manually, such as Google Authenticator.
- c. **Download** the **Microsoft Authenticator App** if not already installed.
- d. **Install** and **open** the **Microsoft Authenticator** app on your phone.



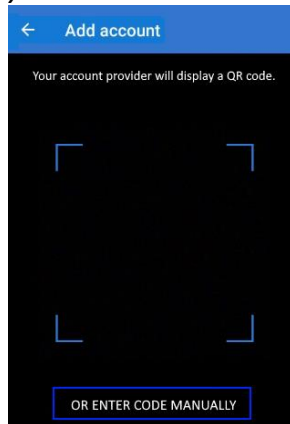
- e. Press the + symbol at the top of the app to **add account**:



- f. Select **Work or school account**:



- g. Select **Scan a QR code**, this is used to take an image of the qr code in the next step:
- h. Note: *where you see **OR ENTER CODE MANUALLY**, in the future, if you **copied** your **Two Factor Secret**, you can add manually at a later time.*



- i. Now, you should see a new account for that QR code in the Microsoft Authenticator app labeled **UMass - EdLab**.
4. You now should be all set. You can now test your login:
- Log into the **edlab elnux** or **caro** server by running the command:
 - ssh username@elnux.cs.umass.edu** or **username@caro.cs.umass.edu**
 - Then, you will ask for your password, such as:
 - (username@elnux.cs.umass.edu) Password:**
 - Next, you will be asked for a verification code. This is the code associated with the account you just setup in the Microsoft Authenticator app. **(username@elnux.cs.umass.edu) Verification code:**