

EdLab

TwoFactor Authentication Additional Examples

1. Automated Script (note: for the below, make sure to replace ``, ``, ``, and `- a. MacOS
 - i. Install the oath-toolkit using brew:
 1. **brew install oath-toolkit**
 - ii. Install expect via brew:
 1. **brew install expect**
 - iii. Create the script with the content below and **chmod +x script.exp**

```
#!/usr/bin/expect -f

set user "<username>"
set host "<hostname>"
set password "<password>"
set secret "<twofactor code (full/not 6 digit)>"

# Generate TOTP using oathtool
spawn /bin/bash -c "oathtool --base32 --totp $secret"
expect " "
set totp $expect_out(buffer)

# SSH command
spawn ssh $user@$host

# Automate interaction
expect {
    "*yes/no*" {
        send "yes\r"
        exp_continue
    }
    "*Password:*" {
        send "$password\r"
        exp_continue
    }
    "*Verification code:*" {
        send "$totp\r"
    }
}

# Once logged in, touch the file
expect "$ "
send "touch ~/test_file.txt\r"

# Exit SSH session
send "exit\r"

expect eof
```