

Enable ESM Apps to receive additional future security updates.
See <https://ubuntu.com/esm> or run: `sudo pro status`

```
Last login: Tue Feb 20 21:11:36 2024
scotty@ubuntu:~$ sudo apt install -y libpam-google-authenticator
[sudo] password for scotty:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
```

Install the Google Auth. Through Command Line Interface (CLI) Also downloaded a Authenticator App on phone for the verification process.

```
# To disable tunneled clear text passwords, change to no here!
#PasswordAuthentication yes
#PermitEmptyPasswords no

# Change to yes to enable challenge-response passwords (beware issues with
# some PAM modules and threads)
KbdInteractiveAuthentication yes

# Kerberos options
#KerberosAuthentication no
#KerberosOrLocalPasswd yes
#KerberosTicketCleanup yes
#KerberosGetAFSToken no

# GSSAPI options
#GSSAPIAuthentication no
#GSSAPICleanupCredentials yes
#GSSAPIStrictAcceptorCheck yes
#GSSAPIKeyExchange no

# Set this to 'yes' to enable PAM authentication, account processing,
# and session processing. If this is enabled, PAM authentication will
# be allowed through the KbdInteractiveAuthentication and
# PasswordAuthentication. Depending on your PAM configuration,
# PAM authentication via KbdInteractiveAuthentication may bypass
# the setting of "PermitRootLogin without-password".
# If you just want the PAM account and session checks to run without
# PAM authentication, then enable this but set PasswordAuthentication
# and KbdInteractiveAuthentication to 'no'.
UsePAM yes
```

```
C:\Users\washa>ssh scotty@10.0.0.161
Password:
Verification code:
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 5.15.0-94-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

System information as of Tue Feb 20 09:31:14 PM UTC 2024

System load:          0.17578125
Usage of /:           26.1% of 11.21GB
Memory usage:         3%
Swap usage:           0%
Processes:            115
Users logged in:      1
IPv4 address for enp0s3: 10.0.0.161
IPv6 address for enp0s3: 2601:347:c000:2c80::a40e
IPv6 address for enp0s3: 2601:347:c000:2c80:a00:27ff:fe01:60c5

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Tue Feb 20 21:26:14 2024 from 10.0.0.219
scotty@ubuntu:~$
```

Your emergency scratch codes are:

38260177
74897425
30462056
86844992
51388456

Do you want me to update your `"/home/scotty/.google_authenticator"` file? (y/n) y

Do you want to disallow multiple uses of the same authentication token? This restricts you to one login about every 30s, but it increases your chances to notice or even prevent man-in-the-middle attacks (y/n) y

By default, a new token is generated every 30 seconds by the mobile app. In order to compensate for possible time-skew between the client and the server, we allow an extra token before and after the current time. This allows for a time skew of up to 30 seconds between authentication server and client. If you experience problems with poor time synchronization, you can increase the window from its default size of 3 permitted codes (one previous code, the current code, the next code) to 17 permitted codes (the 8 previous codes, the current code, and the 8 next codes). This will permit for a time skew of up to 4 minutes between client and server.

Do you want to do so? (y/n) y

If the computer that you are logging into isn't hardened against brute-force login attempts, you can enable rate-limiting for the authentication module. By default, this limits attackers to no more than 3 login attempts every 30s. Do you want to enable rate-limiting? (y/n) y

scotty@ubuntu:~\$

scotty@ubuntu:~\$

scotty@ubuntu:~\$ sudo vim /etc/ssh/sshd_config

scotty@ubuntu:~\$ scotty@ubuntu:~\$ sudo vim /etc/pam.d/sshd

scotty@ubuntu:~\$ sudo systemctl restart ssh

scotty@ubuntu:~\$ exit

logout

Connection to 10.0.0.161 closed.

C:\Users\washa>