

## Práctica 10: Añadiendo mecanismos de seguridad al acceso de un servidor

### III) Instalación de Google Authenticator

```
vagrant@nodo10: ~  
Setting up libwind0-heimdal:amd64 (7.7.0+dfsg-1ubuntu1.2) ...  
Setting up libpython3.8:amd64 (3.8.10-0ubuntu1~20.04.6) ...  
Setting up libhx509-5-heimdal:amd64 (7.7.0+dfsg-1ubuntu1.2) ...  
Setting up libkrb5-26-heimdal:amd64 (7.7.0+dfsg-1ubuntu1.2) ...  
Setting up libheimntlm0-heimdal:amd64 (7.7.0+dfsg-1ubuntu1.2) ...  
Setting up libgssapi3-heimdal:amd64 (7.7.0+dfsg-1ubuntu1.2) ...  
Processing triggers for libc-bin (2.31-0ubuntu9.9) ...  
Processing triggers for rsyslog (8.2001.0-1ubuntu1.3) ...  
Processing triggers for man-db (2.9.1-1) ...  
Processing triggers for mime-support (3.64ubuntu1) ...  
Processing triggers for ca-certificates (20211016ubuntu0.20.04.1) ..  
.  
Updating certificates in /etc/ssl/certs...  
0 added, 0 removed; done.  
Running hooks in /etc/ca-certificates/update.d...  
done.  
vagrant@nodo10:~$ sudo apt-get install libpam-google-authenticator
```

Editamos el fichero /etc/pam.d/sshd .

```
vagrant@nodo10: ~  
# PAM configuration for the Secure Shell service  
#  
auth required pam_google_authenticator.so nullok  
  
# Standard Un*x authentication.  
@include common-auth  
  
# Disallow non-root logins when /etc/nologin exists.  
account required pam_nologin.so  
  
# Uncomment and edit /etc/security/access.conf if you need to set co  
mplex  
# access limits that are hard to express in sshd_config.  
# account required pam_access.so  
  
# Standard Un*x authorization.  
"/etc/pam.d/sshd" 57L, 2184C 4,0-1 Top
```

Editamos el fichero `/etc/ssh/sshd_config`.

```
vagrant@nodo10: ~  
# Don't read the user's ~/.rhosts and ~/.shosts files  
#IgnoreRhosts yes  
  
# To disable tunneled clear text passwords, change to no here!  
PasswordAuthentication yes  
#PermitEmptyPasswords no  
  
# Change to yes to enable challenge-response passwords (beware issue  
s with  
# some PAM modules and threads)  
ChallengeResponseAuthentication yes  
  
# Kerberos options  
#KerberosAuthentication no  
#KerberosOrLocalPasswd yes  
#KerberosTicketCleanup yes  
-- INSERT --
```

A continuación, reiniciamos el servicio **ssh.service** e instalamos **qrencode**.

Finalmente ejecutamos **google-authenticator**.

```
vagrant@nodo10: ~  
  
Your new secret key is: W20IZJGHL53N6VF23CW7Q7VJ7I  
Your verification code is 053695  
Your emergency scratch codes are:  
93295156  
35019919  
26527752  
90989714  
90092674  
Do you want me to update your "/home/vagrant/.google_authenticator" file? (y/n)
```