Prácticas de contraseña segura (creación y gestión)

Configuración de Políticas de Contraseñas Seguras

1. Verificar la política de contraseñas actual en Linux se realiza revisando el archivo de configuración pam.d y el archivo /etc/login.defs:

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# Should login be allowed if we can't cd to the home directory?
# Default is no.
# DEFAULT_HOME yes

# The pwck(8) utility emits a warning for any system account with a home
# directory that does not exist. Some system accounts intentionally do
# directory that does not exist. Some system accounts intentionally do
# not have a home directory. Such accounts may have this string as
# their home directory in /etc/passwd to avoid a spurious warning.
# NONEXISTENT /nonexistent

# If defined, this command is run when removing a user.
# It should remove any at/cron/print jobs etc. owned by
# the user to be removed (passed as the first argument).
# # USERDEL_CMD /usr/sbin/userdel_local
# # If set to yes, userdel(8) will remove the user's group if it contains no more
# members, and useradd(8) will create by default a group with the name of the
# user.
# Uther former uses of this variable are not used in PAM environments, such as
# DOTOR OF THE PAME AND THE P
```

Se revisó la configuración de pam.d:

```
** sudo cat /etc/pam.d/common-password

# /etc/pam.d/common-password - password-related modules common to all services

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# # /etc/pam.d/common-password - password-related modules common to all services

# This file is included from other service-specific PAM config files,

# and should contain a list of modules that define the services to be

# sused to change user passwords. The default is pam_unix.

# Explanation of pam_unix options:

# The 'yescrypt' option enables

# shashed passwords using the yescrypt algorithm, introduced in Debian

## 11. Without this option, the default is Unix crypt. Prior releases

# sused the option "sha512"; if a shadow password hash will be shared

# Between Debian 11 and older releases replace "yescrypt" with "sha512"

# For compatibility . The "obscure" option replaces the old

# OBSCURE_CHECKS_BHAB" option in login.defs. See the pam_unix manpage

# As of pam 1.0.1-6, this file is managed by pam—auth-update by default.

# To take advantage of this, it is recommended that you configure any

# local modules either before or after the default block, and use

# pam—auth-update(6) for details.

# here are the per-package modules (the "Primary" block)

# password [success-1 default-tignore] pam_unix.so obscure yescrypt

# password [success-2 default-tignore] pam_unix.so obscure yescrypt

# password [success-1 default-tignore] pam_unix.so obscure yescrypt

# password success-1 default-tignore) pam_unix.so obscure yescrypt

# password success-1 default-tignore)

## prime the stack with a positive return value if there isn't one already;

## this avoids us returning an error just because nothing sets a success code

## since the modules above will each just jump around

## pam_around-united success
```

Verificación con pwquality.conf:

2. Configuración de la Longitud Mínima y Complejidad Instalación del módulo libpam

```
The following packages were automatically installed and are no longer required:
    icu-devtoois libfuse3-3 libglap1-mesa libbfgsb0 libpython3.12-minimal libputhon3.12t64 python3.12-tk strongswan libflac12t64 libges3.13.0 libicu-dev libpoppler145 libpython3.12-stdlib python3-setproctitle ruby-zeitwerk

Use 'sudo apt autoremove' to remove them.

Installing: libpam-puquality

Summary: Upgrading: 0, Installing: 1, Removing: 0, Not Upgrading: 7

Download size: 13.1 kB

Space needed: 41.0 kB / 61.8 GB available

Get:1 http://kali.download/kali kali-rolling/main amd64 libpam-puquality amd64 1.4.5-5 [13.1 kB]

Fetched 13.1 kB in 1s (12.8 kB/s)

Selecting previously unselected package libpam-puquality:amd64.

(Reading database ... 417590 files and directories currently installed.)

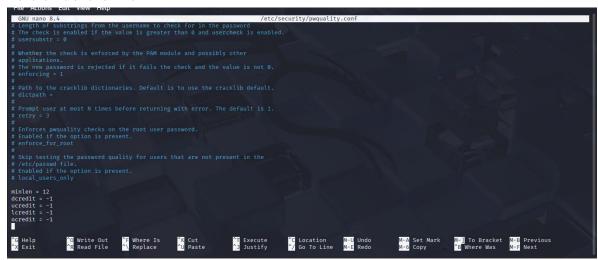
Preparing to unpack ... /libpam-puquality:amd64 (1.4.5-5) ...

Setting up libpam-puquality:amd64 (1.4.5-5) ...

Processing triggers for man-db (2.13.0-1) ...

(Kali@ kali)-[~]
```

Edición del archivo



Aplicar las políticas modificando el archivo /etc/pam.d/common-password para que use el módulo pam_pwquality.so

Configuración de Bloqueo de Cuenta tras Intentos Fallidos

Configuración con pam_faillock:

Verificación y Documentación de la Configuración

```
(Mail® Mail)-[~]

$\space{2}\space \text{passwd kali}$

Changing password for kali.
Current password:

New password:

BAD PASSWORD: No password supplied

New password:

BAD PASSWORD: The password contains less than 1 uppercase letters

New password:

BAD PASSWORD: The password contains less than 1 uppercase letters

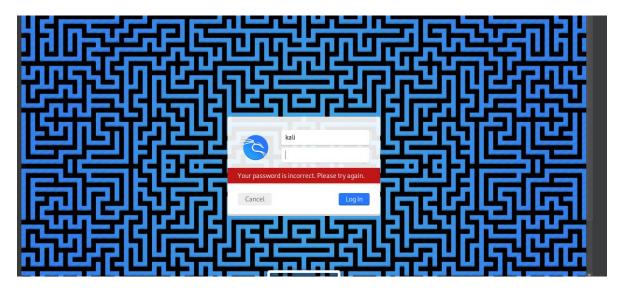
New password:

BAD PASSWORD: The password contains less than 1 uppercase letters

passwd: Have exhausted maximum number of retries for service

passwd: password unchanged
```

Luego de ingresar la contraseña incorrecta 5 veces, aunque se escriba la contraseña correcta esta no funciona



La práctica permitió reforzar conocimientos sobre políticas de contraseñas y mecanismos de protección frente a ataques de fuerza bruta. El sistema reaccionó adecuadamente en todos los casos.