Linux install server Ubuntu 20.04.3

recepta

instal·lació

configuració

```
sudo apt update -y && sudo apt upgrade -y
sudo apt install -y git vim curl
```

```
sudo update-alternatives --config editor # canvi d'editor per defecte
sudo visudo -f /etc/sudoers.d/nopass # %sudo ALL=(ALL:ALL) NOPASSWD:ALL
```

```
sudo groupadd docker
getent group docker # Get entries from administrative database.
sudo usermod -aG docker ${USER}
sudo chown :docker /var/run/docker.sock
sudo chmod 660 /var/run/docker.sock
```

```
# https://bytexd.com/x2go-ubuntu/
sudo apt-get install x2goserver x2goserver-xsession
sudo apt install mate-core mate-desktop-environment mate-notification-daemon
sudo apt-get install nfs-common
```

zsh

```
sudo apt install -y fonts-powerline zsh
sh -c "$(curl -fsSL
https://raw.githubusercontent.com/robbyrussell/oh-my-zsh/master/tools/install.sh)"
chsh -s $(which zsh)

sudo apt-get install -y zsh-syntax-highlighting
git clone https://github.com/zsh-users/zsh-syntax-highlighting.git
${ZSH_CUSTOM}/plugins/zsh-syntax-highlighting
git clone https://github.com/zsh-users/zsh-autosuggestions $ZSH_CUSTOM/plugins/zsh-
autosuggestions
```

.zshrc

```
ZSH_THEME="agnoster"
plugins=(git
         colored-man-pages
         colorize
         zsh-syntax-highlighting
         vagrant
         zsh-autosuggestions
         timer
 )
```

ntp

```
sudo apt install -y ntp
sudo ln -s /usr/share/zoneinfo/Etc/UTC localtime_old
sudo unlink /etc/localtime
sudo ln -s /usr/share/zoneinfo/Europe/Andorra /etc/localtime
sudo systemctl restart ntp.service
```

docker

```
sudo apt-get install \
    ca-certificates \
    curl \
    gnupg \
    lsb-release
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o
/usr/share/keyrings/docker-archive-keyring.gpg
echo "deb [arch=$(dpkg --print-architecture) signed-by=/usr/share/keyrings/docker-
archive-keyring.gpg] https://download.docker.com/linux/ubuntu \
  $(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list >
/dev/null
sudo apt-get update
sudo apt-get install docker-ce docker-ce-cli containerd.io
sudo usermod -aG docker fidmag
```

seguridad

- instalar libreria contraseñas en diccionario:

  ```
  sudo apt install libpam-cracklib
  ```

- añadir/reeemplazar:

  /etc/pam.d/common-password

  ```
  password requisite pam_cracklib.so retry=3 minlen=8 difok=3
  ```

- parámetros:
  - retry: número de intentos antes de que el sistema devuelva un error en la autenticación y nos expulse.
  - minlen: es la longitud mínima de la contraseña, por defecto está en 8 caracteres.
  - difok: número de caracteres diferentes que debe tener la nueva clave en comparación con la antigua.
  - ucredit: caracteres en mayúscula que debe tener como mínimo o máximo.
  - lcredit: caracteres en minúscula que debe tener como mínimo o máximo.
  - dcredit: el número de dígitos que debe tener como mínimo o máximo.
  - ocredit: el número de otros caracteres (símbolos) que debe tener la clave como mínimo o máximo.
  - para los credit:
    - lcredit=-2 : significa que como mínimo debe tener 2 caracteres en minúscula.
    - lcredit=+2 : significa que como máximo debe tener 2 caracteres en minúscula.
- expira la contaseña y obliga a cambio en próximo login:

```
paswd -e <USUARIO>
```

- caducidad:

```
passwd -w 5 -x 30-i 1 <USUARIO>
```

  - **w**: aviso X dias antes de la caducidad
  - **x**: expira cada X dias
  - **i**: desactiva la cuenta a los X dias si no ha habido cambio de contraseña. Solo root puede reactivar.

/via:https://www.redeszone.net/tutoriales/seguridad/configurar-politica-contrasenas-debian/

ufw

```
sudo apt install -y ufw
ufw default deny incoming
ufw default allow outgoing
ufw allow ssh
ufw enable
ufw status
ufw app list
```

/more: ufw ≡ Uncomplicated Firewall
/via: https://community.hetzner.com/tutorials/simple-firewall-management-with-ufw

ssh

/via: https://community.hetzner.com/tutorials/securing-ssh

; /etc/ssh/sshd_config

```
Protocol 2                              # Disables protocol 1
AllowTcpForwarding no                   # Disables port forwarding.
X11Forwarding no                        # Disables remote GUI view.
AllowAgentForwarding no                 # Disables the forwarding of the SSH
login.
MaxAuthTries 2
AllowUsers fidmag
ClientAliveInterval 300                 # Timeout por inactividad
ClientAliveCountMax 1                   # cliente ssh que no responde
PermitRootLogin no
LoginGraceTime 30                       # tiempo disponible para teclear
usuario y contraseña
```

```
sudo sshd -t # test configuration
sudo systemctl restart sshd
```

fail2ban

```
sudo apt install -y fail2ban
sudo systemctl enable fail2ban
```

```
sudo cp /etc/fail2ban/jail.conf /etc/fail2ban/jail.d/custom.conf
sudo vim /etc/fail2ban/jail.d/custom.conf # add enabled = true in [sshd] section
```

/etc/fail2ban/jail.d/custom.conf

```
[sshd]
enabled = true
```

```
fail2ban-client status sshd
sudo zgrep 'Ban' /var/log/fail2ban.log # IPs baneadas
sudo iptables -L INPUT -v -n | less
```

sudo

sudoreplay

```
sudo visudo
# add: Defaults log_output
sudo sudoreplay -l # list sessions
sudo sudoreplay <TSID>
```

su

```
sudo groupadd su
sudo usermod -a -G su fidmag
sudo dpkg-statoverride --update --add root admin 4750 /bin/su
```

IPv6 disable

```
# comprobar estado
ip a | grep inet6

# desactivar ya
sudo sysctl -w net.ipv6.conf.all.disable_ipv6=1
sudo sysctl -w net.ipv6.conf.default.disable_ipv6=1
sudo sysctl -w net.ipv6.conf.lo.disable_ipv6=1

# persistencia (solo activa tras un reboot)
echo "net.ipv6.conf.all.disable_ipv6 = 1" | sudo tee -a /etc/sysctl.conf
echo "net.ipv6.conf.default.disable_ipv6 = 1" | sudo tee -a /etc/sysctl.conf
echo "net.ipv6.conf.lo.disable_ipv6=1" | sudo tee -a /etc/sysctl.conf
```

IPv4 forward disable

```
# comprobar estat
sysctl net.ipv4.ip_forward

# desactivar inmediatament
```

```
sudo sysctl -w net.ipv4.ip_forward=0

# persistència
cho "net.ipv4.ip_forward=0" | sudo tee -a /etc/sysctl.conf
```

updates

expand filesystem

```
parted -l /dev/sda
sudo cfdisk
sudo resize2fs /dev/sda2
```

canvi IP

```
sudo vim /etc/netplan/00-installer-config.yaml
sudo netplan apply
```

- netplan (ubunut network)

canvi hostname

```
sudo vim /etc/hostname
```

scripts

- git://fidmag.org:/home/git/vmw-master
  - setup.sh
  - post-clone.sh
  - new-docker-certificates.sh
- certificats:
  - en local:

    ```
    scp CA_FIDMAG.crt CA_FIDMAG.key openssl.cnf fidmag@10.213.6.154:~
    ```

  - en remot:

    ```
    sudo mv CA_FIDMAG.crt CA_FIDMAG.key openssl.cnf /root
    ```

  - en local:

    ```
    mkdir ~/Documents/certificats-CA/10.213.6.154; scp vmware-
    master:~/.docker/\* ~/Documents/certificats-CA/10.213.6.154
    ```

apache+php

```
sudo apt install apache2
```

```
sudo apt install ca-certificates apt-transport-https software-properties-common -y
echo "deb https://packages.sury.org/php/ $(lsb_release -sc) main" | sudo tee
/etc/apt/sources.list.d/sury-php.list
wget -qO - https://packages.sury.org/php/apt.gpg | sudo apt-key add -
#wget -qO - https://packages.sury.org/php/apt.gpg | gpg --dearmor | sudo tee
/usr/share/keyrings/php-archive-keyring.gpg
#echo "deb [signed-by=/usr/share/keyrings/php-archive-keyring.gpg]
https://packages.sury.org/php/ $(lsb_release -sc) main" | sudo tee
/etc/apt/sources.list.d/sury-php.list
sudo apt update -y
sudo apt install php8.0
sudo apt install php8.0-{mysql,cli,common,xml,fpm,curl,mbstring,zip,gd}
#apt install php php-common php-xml php-gd php-mbstring php-tokenizer php-json php-
bcmath php-zip -y
```

/etc/php/8.0/apache2/php.ini

```
upload_max_filesize = 32M
post_max_size = 48M
memory_limit = 256M
max_execution_time = 600
max_input_vars = 3000
max_input_time = 1000
```

```
systemctl restart apache2
```

default php

```
a2dismod php7.4 # disable 7.4
a2enmod php8.0
systemctl restart apache2
```

/via: https://www.howtoforge.com/how-to-install-php-8-on-debian-11/
/via: https://computingforgeeks.com/how-to-install-php-on-debian-linux/

From:
https://matebcn.eu/ - **miguel angel torres egea**

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