Unifi

VM to install Unifi Network Application

Docker

Since everything else failed...
References:

- https://community.ui.com/questions/UniFi-Installation-Scripts-or-UniFi-Easy-Update-Script-or-UniFi-Lets-Encrypt-or-UniFi-Easy-Encrypt-/ccbc7530-dd61-40a7-82ec-22b17f027776
- https://www.youtube.com/watch?v=peWzAUKbnlw
- https://glennr.nl/s/unifi-network-controller [UniFi scripts]

Download Ubuntu 18.04 container Template from Proxmox: Proxmox > Local > Templates
Set up a CT with this Template with password/ssh keys + 32GB of disk, 1GB RAM + IP 192.268.1.70/24
Download script:

```
wget https://get.glennr.nl/unifi/install/unifi-7.3.83.sh
bash unifi-7.3.83.sh
```

Ubuntu

OS: Ubuntu 22.04 Server LTS (laziness, mostly)
IP: 192.168.1.70 (unifi.fortier-family.com)

Install

Following :

- https://www.billysoftacademy.com/2022-tutorial-learn-how-to-install-the-unifi-controller-version-7-on-a-linux-ubuntu-20-04-lts-vm/ | https://www.billysoftacademy.com/wp-content/uploads/2022/06/UNIFI-INSTALLATION-COMMANDS.pdf

```
apt update && apt upgrade -y
apt install openjdk-8-jdk ca-certificates apt-transport-https -y

echo 'deb https://www.ui.com/downloads/unifi/debian stable ubiquiti' | sudo tee /etc/apt/sources.list.d/100-ubnt-unifi.list
apt-key adv --keyserver keyserver.ubuntu.com --recv 06E85760C0A52C50
```

```
apt update && apt install unifi -y
#### ERRORS #####
```

```
wget https://get.glennr.nl/unifi/install/unifi-7.1.66.sh
chmod +x unifi-7.1.66.sh
./unifi-7.1.sh
systemctl status unifi
```

Previous _Failed_ Install

```
sudo apt-get update && sudo apt-get install ca-certificates apt-transport-
https
echo 'deb https://www.ui.com/downloads/unifi/debian stable ubiquiti' | sudo
tee /etc/apt/sources.list.d/100-ubnt-unifi.list
wget -qO - https://www.mongodb.org/static/pgp/server-3.4.asc | sudo apt-key
add -
echo "deb https://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.4
multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-3.4.list
sudo apt-get update
sudo wget -O /etc/apt/trusted.gpg.d/unifi-repo.gpg
https://dl.ui.com/unifi/unifi-repo.gpg
sudo apt-key adv --keyserver keyserver.ubuntu.com --recv 06E85760C0A52C50
sudo apt-get update && sudo apt-get install unifi -y
systemctl enable --now unifi
apt install default-jre
```

Top shit → doesn't work... 💪

```
 wget https://dl.ui.com/unifi/6.5.55/unifi_sysvinit_all.deb
dpkg -i unifi_sysvinit_all.deb
apt-get install -f
```

doesn't work either...

```
 wget https://get.glennr.nl/unifi/install/unifi-6.5.55.sh
bash unifi-6.5.55.sh
```

Interface

→ here

Timezone

```
timedatectl set-timezone Europe/Zurich
```

```
timedatectl
```

NTP client

```
vi /etc/systemd/timesyncd.conf
```

```
[Time]
NTP=ntp.fortier-family.com
```

```
timedatectl set-ntp true
timedatectl status
systemctl restart systemd-timesyncd
```

NTP server (NOT DONE, now on another server)

Why not? 🙂

```
apt-get install ntp
sntp --version
vi /etc/ntp.conf
```

choose a pool close : https://support.ntp.org/bin/view/Servers/NTPPoolServers

```
server 0.ch.pool.ntp.org
server 1.ch.pool.ntp.org
server 2.ch.pool.ntp.org
server 3.ch.pool.ntp.org
```

```
systemctl restart ntp
systemctl status ntp
```

```
...kernel reports TIME_ERROR: 0x2041: Clock Unsynchronized
```

```
 ufw allow from any to any port 123 proto udp
```

Remove fucking cloud-init

every reboot … SSH Keys are regenerated !! How stoopid is that?! 🤦 🤦 🤦 🤦 🤦 🤦 🤦 🤦 🤦 🤦 🤦 🤦 🤦 🤦 🤦 🤦

```
ssh 192.168.1.70
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@    WARNING: REMOTE HOST IDENTIFICATION HAS CHANGED!     @
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
```

```
IT IS POSSIBLE THAT SOMEONE IS DOING SOMETHING NASTY!
Someone could be eavesdropping on you right now (man-in-the-middle attack)!
It is also possible that a host key has just been changed.
The fingerprint for the ED25519 key sent by the remote host is
SHA256:y7imTO26lQ4UFuIDhuJ+aRl6v3JdsUEeUBghUx7V/+o.
Please contact your system administrator.
Add correct host key in /Users/fortiera/.ssh/known_hosts to get rid of this
message.
Offending ECDSA key in /Users/fortiera/.ssh/known_hosts:309
Host key for 192.168.1.70 has changed and you have requested strict
checking.
Host key verification failed.
```

```
dpkg-reconfigure cloud-init # None (28)

dpkg-reconfigure cloud-init
apt-get purge cloud-init
rm -rf /etc/cloud/ && sudo rm -rf /var/lib/cloud/
```

Archlinux

since Unifi is not providing statistics... Java Power !! Let's install it on Arch Basic Archlinux Install

```
gdisk /dev/sda
```

create one partition for EFI + 1 for /

UEFI de merde

```
root@archiso ~ # gdisk /dev/sda
GPT fdisk (gdisk) version 1.0.8

Partition table scan:
  MBR: not present
  BSD: not present
  APM: not present
  GPT: not present

Creating new GPT entries in memory.

Command (? for help): o
This option deletes all partitions and creates a new protective MBR.
Proceed? (Y/N): Y

Command (? for help): n
Partition number (1-128, default 1):
First sector (34-67108830, default = 2048) or {+-}size{KMGTP}:
```

```
Last sector (2048-67108830, default = 67108830) or {+-}size{KMGTP}: +550M
Current type is 8300 (Linux filesystem)
Hex code or GUID (L to show codes, Enter = 8300): EF00
Changed type of partition to 'EFI system partition'

Command (? for help): n
Partition number (2-128, default 2):
First sector (34-67108830, default = 1128448) or {+-}size{KMGTP}:
Last sector (1128448-67108830, default = 67108830) or {+-}size{KMGTP}:
Current type is 8300 (Linux filesystem)
Hex code or GUID (L to show codes, Enter = 8300):
Changed type of partition to 'Linux filesystem'

Command (? for help): p
Disk /dev/sda: 67108864 sectors, 32.0 GiB
Model: QEMU HARDDISK
Sector size (logical/physical): 512/512 bytes
Disk identifier (GUID): 2B7EBB37-FD6B-495E-8DFF-A2B02184B4BA
Partition table holds up to 128 entries
Main partition table begins at sector 2 and ends at sector 33
First usable sector is 34, last usable sector is 67108830
Partitions will be aligned on 2048-sector boundaries
Total free space is 2014 sectors (1007.0 KiB)

Number  Start (sector)    End (sector)  Size       Code  Name
   1            2048         1128447   550.0 MiB   EF00  EFI system
partition
   2         1128448        67108830   31.5 GiB    8300  Linux filesystem

Command (? for help): w
Final checks complete. About to write GPT data. THIS WILL OVERWRITE EXISTING
PARTITIONS!!

Do you want to proceed? (Y/N): Y
OK; writing new GUID partition table (GPT) to /dev/sda.
The operation has completed successfully.
```

```
mkfs.ext4 -L ROOT /dev/sda2
mkfs.vfat -F32 -n EFI /dev/sda1
mount /dev/sda2 /mnt
mkdir /mnt/boot
mount /dev/sda1 /mnt/boot
pacstrap /mnt linux-hardened base base-devel intel-ucode vim linux-firmware
dhcpcd networkmanager git openssh go net-snmp wget
genfstab -U /mnt >> /mnt/etc/fstab
arch-chroot /mnt/
===== Config =====
echo "unifi" > /etc/hostname
echo LANG=en_US.UTF-8 > /etc/locale.conf
ln -s `which vim` /usr/bin/vi
```

```
vi /etc/locale.gen
#uncomment #en_US.utf-8
```

```
locale-gen
echo KEYMAP=us-acentos > /etc/vconsole.conf
echo FONT=lat9w-16 >> /etc/vconsole.conf
ln -sf /usr/share/zoneinfo/Europe/Zurich /etc/localtime
echo "#<ip-address>   <hostname.domain.org>    <hostname>
127.0.0.1   monitor.localdomain    monitor" >/etc/hosts

==== Init/boot ====
<code bash>
vi /etc/mkinitcpio.conf
# HOOKS=(base keyboard udev autodetect modconf block keymap filesystems)
```

```
mkinitcpio -p linux-hardened
bootctl --path=/boot install
```

- /boot/loader/entries/arch.conf

```
title Arch Linux
linux /vmlinuz-linux-hardened
initrd /intel-ucode.img
initrd /initramfs-linux-hardened.img
options root="LABEL=ROOT" rw
```

- /boot/loader/loader.conf

```
default  arch.conf
timeout  4
console-mode max
#editor   no
```

```
passwd
```

post install

```
pacman -S htop zsh ccze dfc
```

```
useradd -m warnaud
```

AUR Helper

```
su - warnaud
cd /tmp
mkdir yay
curl https://aur.archlinux.org/cgit/aur.git/plain/PKGBUILD?h=yay >
/tmp/yay/PKGBUILD
```

```
cd yay
makepkg
su
pacman -U yay*.zst
```

Static IP

```
vi /etc/systemd/network/ens192.network
```

```
[Match]
Name=ens192

[Network]
Address=192.168.1.60/24
Gateway=192.168.1.1
DNS=192.168.1.10
DNS=192.168.1.11
```

```
systemctl enable --now systemd-networkd
```

Reference

- https://help.ui.com/hc/en-us/articles/220066768-UniFi-Network-How-to-Install-and-Update-via-APT-on-Debian-or-Ubuntu
- https://technium.ch/unifi-controller-lxc-container-installieren-tutorial/
- https://community.ui.com/questions/Java-Home-Directory-Fail-Issue-on-Ubuntu-RESOLVED/1faea5fd-6eda-4be9-a12f-676ef6be2529
- https://community.ui.com/questions/UniFi-Installation-Scripts-or-UniFi-Easy-Update-Script-or-UniFi-Lets-Encrypt-or-UniFi-Easy-Encrypt-/ccbc7530-dd61-40a7-82ec-22b17f027776
- https://vitux.com/how-to-install-ntp-server-and-client-on-ubuntu/
- https://linuxize.com/post/how-to-set-or-change-timezone-on-ubuntu-20-04/
- https://davidshomelab.com/unifi-controller-setup-on-ubuntu-20-04lts/

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