[Alpine] Installation

Introduction

Sur Alpine, l'installation n'est pas forcément triviale comme d'autres distributions Linux. Elle se fait généralement à l'aide d'un script qui nous pose des questions et va configurer le système selon nos réponses.

Installation

Voici le lien vers la page de téléchargement pour les ISO :

- https://alpinelinux.org/downloads/

Une fois que vous avez démarré sur le live CD, il faudra se connecter avec l'utilisateur **root** (aucun mot de passe requis) :

```
ISOLINUX 6.04 6.04-pre1 ETCD Copyright (C) 1994-2015 H. Peter Anvin et al
boot:


   OpenRC 0.52.1 is starting up Linux 6.6.14-0-lts (i686)

 * /proc is already mounted
 * Mounting /run ...                                                    [ ok ]
 * /run/openrc: creating directory
 * /run/lock: creating directory
 * /run/lock: correcting owner
 * Caching service dependencies ...                                     [ ok ]
 * Remounting devtmpfs on /dev ...                                      [ ok ]
 * Mounting /dev/mqueue ...                                             [ ok ]
 * Mounting modloop  ...
 * Verifying modloop                                                    [ ok ]
 * Mounting security filesystem ...                                     [ ok ]
 * Mounting debug filesystem ...                                        [ ok ]
 * Mounting persistent storage (pstore) filesystem ...                  [ ok ]
 * Starting busybox mdev ...                                            [ ok ]
 * Scanning hardware for mdev ...                                       [ ok ]
 * Loading hardware drivers ...                                                                                    [ ok ]
 * Loading modules ...                                                                                             [ ok ]
 * Setting system clock using the hardware clock [UTC] ...                                                         [ ok ]
 * Checking local filesystems  ...                                                                                 [ ok ]
 * Remounting filesystems ...                                                                                      [ ok ]
 * Mounting local filesystems ...                                                                                  [ ok ]
 * Configuring kernel parameters ...                                                                               [ ok ]
 * Migrating /var/lock to /run/lock ...                                                                            [ ok ]
 * Creating user login records ...                                                                                 [ ok ]
 * Cleaning /tmp directory ...                                                                                     [ ok ]
 * Setting hostname ...                                                                                            [ ok ]
 * Starting busybox syslog ...                                                                                     [ ok ]
 * Starting firstboot ...                                                                                          [ ok ]

Welcome to Alpine Linux 3.19
Kernel 6.6.14-0-lts on an i686 (/dev/tty1)

localhost login: root
Welcome to Alpine!

The Alpine Wiki contains a large amount of how-to guides and general
information about administrating Alpine systems.
See <https://wiki.alpinelinux.org/>.

You can setup the system with the command: setup-alpine

You may change this message by editing /etc/motd.

localhost:~# _
```

Pour que ce soit plus pratique, on commence par passer le clavier en AZERTY (il est en QWERTY par défaut) :

```
setup-keymap fr fr
```

On peut maintenant lancer le script d'installation :

```
setup-alpine
```

La configuration du clavier vous sera demandée :

```
localhost:~# setup-alpine


 ALPINE LINUX INSTALL
-------------------------

 Keymap
--------
af    al    am    ara   at    az    ba    bd    be    bg    br    brai  by    ca    ch    cm    cn    cz    de    dk    dz    ee    epo   es    fi    fo
fr    gb    ge    gh    gr    hr    hu    id    ie    il    in    iq    ir    is    it    jp    ke    kg    kr    kz    la    latam lk    lt    lv    ma
md    me    mk    ml    mm    mt    my    ng    nl    no    nz    ph    pk    pl    pt    ro    rs    ru    se    si    sk    sy    th    tj    tm    tr
tw    ua    us    uz    vn

Select keyboard layout: [none] fr
```

```
fr-afnor            fr-azerty           fr-bepo             fr-bepo_afnor       fr-bepo_latin9      fr-bre              fr-dvorak
fr-geo              fr-latin9           fr-latin9_nodeadkeys fr-mac             fr-nodeadkeys       fr-oci              fr-oss
fr-oss_latin9       fr-oss_nodeadkeys   fr-us               fr

Select variant (or 'abort'): fr-azerty

 * WARNING: you are stopping a boot service
 * Caching service dependencies ...                                                                                [ ok ]
 * Setting keymap ...                                                                                              [ ok ]
```

On saisit l'hostname :

```
Enter system hostname (fully qualified form, e.g. 'foo.example.org') [localhost] alpine
```

On saisit le nom de l'interface réseau à utiliser :

```
 Interface
-----------
Available interfaces are: eth0.
Enter '?' for help on bridges, bonding and vlans.
Which one do you want to initialize? (or '?' or 'done') [eth0] eth0
```

Ici, on va configurer l'adresse IP en statique donc on va directement saisir l'adresse, le masque et la passerelle :

```
Ip address for eth0? (or 'dhcp', 'none', '?') [dhcp] 192.168.10.11
Netmask? [255.255.255.0] 255.255.255.0
Gateway? (or 'none') [none] 192.168.10.254
Configuration for eth0:
  type=static
  address=192.168.10.11
  netmask=255.255.255.0
  gateway=192.168.10.254
Do you want to do any manual network configuration? (y/n) [n] y
```

Vous serez redirigé dans le fichier de configuration du réseau pour confirmer la configuration, faites la combinaison de touche :

" : + q + ! + Enter "

On définit le nom de domaine de la machine :

```
DNS domain name? (e.g 'bar.com') alpine.local
```

On saisit l'adresse du serveur DNS à utiliser :

```
DNS nameserver(s)? [1.1.1.1] 1.1.1.1
```

On définit le mot de passe de l'utilisateur root :

```
 Root Password
---------------
Changing password for root
New password:
Bad password: too weak
Retype password:
Passwords don't match
passwd: password for root is unchanged
Please retry.
Changing password for root
New password:
Retype password: _
```

> Les mots de passe faibles ne sont pas autorisés !

On choisit la TimeZone :

```
Timezone
---------
Africa/          CET              Egypt            GMT+0            Iran             MST7MDT          Poland           UTC
America/         CST6CDT          Eire             GMT-0            Israel           Mexico/          Portugal         Universal
Antarctica/      Canada/          Etc/             GMT0             Jamaica          NZ               ROC              W-SU
Arctic/          Chile/           Europe/          Greenwich        Japan            NZ-CHAT          ROK              WET
Asia/            Cuba             Factory          HST              Kwajalein        Navajo           Singapore        Zulu
Atlantic/        EET              GB               Hongkong         Libya            PRC              Turkey           leap-seconds.list
Australia/       EST              GB-Eire          Iceland          MET              PST8PDT          UCT              posixrules
Brazil/          EST5EDT          GMT              Indian/          MST              Pacific/         US/              right/

Which timezone are you in? [UTC] Europe
Amsterdam    Berlin       Chisinau     Isle_of_Man  Kyiv         Malta        Oslo         Samara       Sofia        Uzhgorod     Warsaw
Andorra      Bratislava   Copenhagen   Istanbul     Lisbon       Mariehamn    Paris        San_Marino   Stockholm    Vaduz        Zagreb
Astrakhan    Brussels     Dublin       Jersey       Ljubljana    Minsk        Podgorica    Sarajevo     Tallinn      Vatican      Zaporozhye
Athens       Bucharest    Gibraltar    Kaliningrad  London       Monaco       Prague       Saratov      Tirane       Vienna       Zurich
Belfast      Budapest     Guernsey     Kiev         Luxembourg   Moscow       Riga         Simferopol   Tiraspol     Vilnius
Belgrade     Busingen     Helsinki     Kirov        Madrid       Nicosia      Rome         Skopje       Ulyanovsk    Volgograd

What sub-timezone of 'Europe' are you in? Paris
```

Ici nous n'aurons pas de serveur Proxy donc on appuie simplement sur Entrée :

```
Proxy
-------
HTTP/FTP proxy URL? (e.g. 'http://proxy:8080', or 'none') [none]
```

Pour les mirroirs, nous allons utiliser les plus rapides, comme cela est recommandé :

```
APK Mirror
------------
wget: bad address 'mirrors.alpinelinux.org'
wget: bad address 'mirrors.alpinelinux.org'
 (f)    Find and use fastest mirror
 (s)    Show mirrorlist
 (r)    Use random mirror
 (e)    Edit /etc/apk/repositories with text editor
 (c)    Community repo enable
 (skip) Skip setting up apk repositories

Enter mirror number or URL: [1] 1_
```

Pour l'instant, nous ne configurerons pas d'utilisateur supplémentaire :

```
User
------
Setup a user? (enter a lower-case loginname, or 'no') [no] no_
```

Pour le serveur SSH nous utiliserons openssh :

```
Which ssh server? ('openssh', 'dropbear' or 'none') [openssh] openssh
```

Ici, nous sommes dans un environnement de test donc nous allons autoriser la connexion en root en SSH (à ne pas reproduire en production) :

```
Allow root ssh login? ('?' for help) [prohibit-password] yes
```

On ne configurera pas de clé SSH pour l'instant donc appuie sur Entrée :

```
Enter ssh key or URL for root (or 'none') [none]
```

On sélectionne le disque sur lequel on souhaite installer Alpine :

```
 Disk & Install
----------------
Available disks are:
  sda   (10.7 GB QEMU     QEMU HARDDISK   )

Which disk(s) would you like to use? (or '?' for help or 'none') [none] sda_
```

On va configurer le disque en **sys** (système) :

```
The following disk is selected:
  sda   (10.7 GB QEMU     QEMU HARDDISK   )

How would you like to use it? ('sys', 'data', 'crypt', 'lvm' or '?' for help) [?] sys_
```

On confirme le formatage du disque :

```
WARNING: The following disk(s) will be erased:
  sda   (10.7 GB QEMU     QEMU HARDDISK   )

WARNING: Erase the above disk(s) and continue? (y/n) [n] y
```

Maintenant que le système est installé, on peut redémarrer :

```
alpine:~# reboot_
```

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