How to get regular stuff working

Alpine comes with busybox by default. Busybox is set up as an endpoint for numerous symlinks that substitute various utilities. Since busybox tries to be a minimalistic package, the busybox commands may still be missing some functionality.

To replace the busybox symlinks, you can install the relevant packages:

Basic utilities

Very basic utilities ranging from cd, ls, lsblk, grep, are all busybox symlinks by default. To have the complete packages:

```
# apk add util-linux (https://pkgs.alpinelinux.org/packages?name=util-linux&branch=
 coreutils (https://pkgs.alpinelinux.org/packages?name=coreutils&branch=edge&repo=&
 grep (https://pkgs.alpinelinux.org/packages?name=grep&branch=edge&repo=&arch=x86_6
 findutils (https://pkgs.alpinelinux.org/packages?name=findutils&branch=edge&repo=&
```

Bash shell

Main article: Change default shell

The default shell used by Alpine Linux is the busybox variant of the ash (https://en.wikipedia.org/wiki/Almquist_shell) shell. To install bash:

```
# apk add bash (https://pkgs.alpinelinux.org/packages?name=bash&branch=edge&repo=&a
 bash-completion (https://pkgs.alpinelinux.org/packages?name=bash-completion&branch
```

Hardware Management

Install `pciutils (https://pkgs.alpinelinux.org/packages?name=pciutils&branch=edge&repo=&arch=x86_64&maintainer=)` and `usbutils (https://pkgs.alpinelinux.org/packages?name=usbutils&branch=edge&repo=&arch=x86_64&maintainer=)` for configuring PCI and USB hardware respectively. You can always remove these packages once the hardware is configured.

```
# apk add pciutils (https://pkgs.alpinelinux.org/packages?name=pciutils&branch=edge
 usbutils (https://pkgs.alpinelinux.org/packages?name=usbutils&branch=edge&repo=&ar
```

The packages `hwdata-pci (https://pkgs.alpinelinux.org/packages?name=hwdata-pci&branch=edge&repo=&arch=x86_64&maintainer=)` and `hwdata-usb (https://pkgs.alpinelinux.org/packages?name=hwdata-usb&branch=edge&repo=&arch=x86_64&maintainer=)` are dependencies for the above utilities and they are installed automatically.

Disk Management

Managing (removable) disks is much easier with udisks.

```
# apk add udisks2 (https://pkgs.alpinelinux.org/packages?name=udisks2&branch=edge&r
```

To see the mounted disks:

```
# udisksctl status
```

Network Management

For network, you may want to install iproute2 (https://pkgs.alpinelinux.org/packages?name=iproute2&branch=edge&repo=&arch=x86_64&maintainer=).

```
# apk add iproute2 (https://pkgs.alpinelinux.org/packages?name=iproute2&branch=edge
```

Development environment

Compiling in Alpine may be more challenging because it uses musl-libc (https://musl.libc.org/) instead of glibc. Alpine offers the regular compiler stuff such as gcc (https://pkgs.alpinelinux.org/packages?name=gcc&branch=edge&repo=&arch=x86_64&maintainer=).

```
# apk add gcc (https://pkgs.alpinelinux.org/packages?name=gcc&branch=edge&repo=&arc
```

The alpine-sdk (https://pkgs.alpinelinux.org/packages?name=alpine-sdk&branch=edge&repo=&arch=x86_64&maintainer=) meta package is provided to build packages for Alpine. It includes abuild (https://pkgs.alpinelinux.org/packages?name=abuild&branch=edge&repo=&arch=x86_64&maintainer=), build-base (https://pkgs.alpinelinux.org/packages?name=build-base&branch=edge&repo=&arch=x86_64&maintainer=), and git (https://pkgs.alpinelinux.org/packages?name=git&branch=edge&repo=&arch=x86_64&maintainer=).

```
# apk add alpine-sdk (https://pkgs.alpinelinux.org/packages?name=alpine-sdk&branch=
```

To install CMake:

```
# apk add cmake (https://pkgs.alpinelinux.org/packages?name=cmake&branch=edge&repo=
  extra-cmake-modules (https://pkgs.alpinelinux.org/packages?name=extra-cmake-module
```

ccache (https://pkgs.alpinelinux.org/packages?name=ccache&branch=edge&repo=&arch=x86_64&maintainer=) and a lot other tools are also available in Alpine.

Functional differences between musl and glibc (https://wiki.musl-libc.org/functional-differences-from-glibc.html)

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