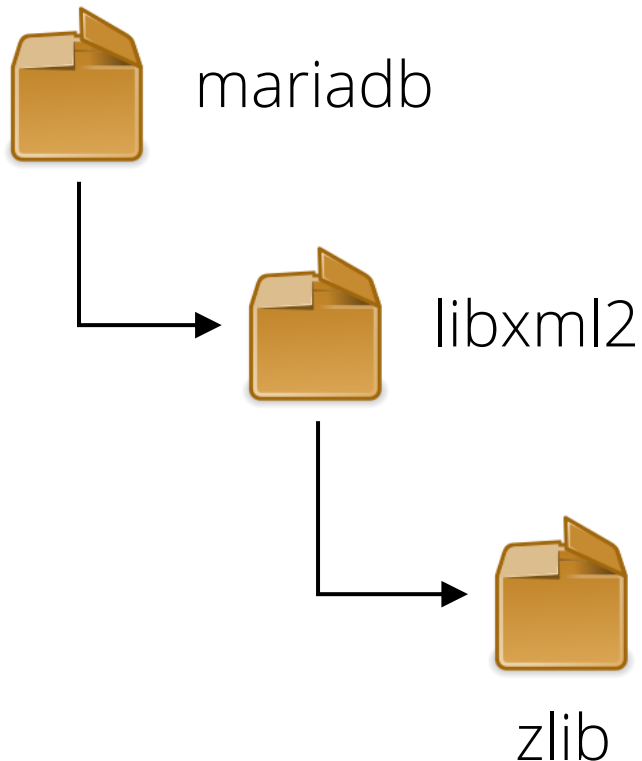


# Package managers

COMS10012 Software Tools

# Packages



```
$ apk search | wc -l  
10338
```

```
$ apk search maria  
mariadb-static-10.3.23-r0  
mariadb-connector-c-dev-3.0.10-r0  
mariadb-bench-10.3.23-r0  
mariadb-10.3.23-r0  
mariadb-server-utils-10.3.23-r0  
mariadb-backup-10.3.23-r0  
mariadb-doc-10.3.23-r0  
mariadb-openrc-10.3.23-r0  
mariadb-client-10.3.23-r0  
...
```

# APK

**apk**: Alpine package manager

. **apk** files (same ending as Android, different format and system)

Debian/Ubuntu/Mint/...: **apt**

Red Hat: **rpm**

# repositories

```
$ cat /etc/apk/repositories
```

```
https://sjc.edge.kernel.org/alpine/v3.10/main
```

```
https://sjc.edge.kernel.org/alpine/v3.10/community
```

## Index of /alpine/v3.10/main/x86\_64/

|                                      |                   |      |
|--------------------------------------|-------------------|------|
| <a href="#">../</a>                  |                   |      |
| <a href="#">APKINDEX.tar.gz</a>      | 28-Sep-2020 10:25 | 739K |
| <a href="#">a2ps-4.14-r7.apk</a>     | 08-May-2019 12:28 | 697K |
| <a href="#">a2ps-dev-4.14-r7.apk</a> | 08-May-2019 12:28 | 136K |
| <a href="#">a2ps-doc-4.14-r7.apk</a> | 08-May-2019 12:28 | 135K |

`APKINDEX.tar.gz` lists all packages for a system

# finding packages

```
$ apk search [-v] [-d] STRING
```

```
$ apk info [-a] PACKAGE
```

```
$ apk list [-I] PACKAGE
```

```
$ apk [COMMAND] --help
```

# update and upgrade

## \$ **sudo apk update**

Download the new list of packages, but don't install anything yet.

## \$ **sudo apk upgrade**

Upgrade all installed packages to the latest version.

# installing

```
$ sudo apk add PACKAGE [PACKAGE...]
```

Installs one or more packages and their dependencies.

Vagrant:

```
$ cat /vagrant/Vagrantfile
```

```
...
```

```
apk add libc6-compat util-linux
```

```
...
```

# Find a command

By complete file path:

```
$ apk info --who-owns /bin/bash
```

The website:

<https://pkgs.alpinelinux.org/>





