Exercise 6.1   Using RPM

Here we will just do a number of simple operations for querying and verifying **rpm** packages.

This lab will work equally well on **Red Hat** and **SUSE**-based systems.

1. Find out what package the file `/etc/logrotate.conf` belongs to.
2. List information about the package including all the files it contains.
3. Verify the package installation.
4. Try to remove the package.

Solution 6.1

1. `$ rpm -qf /etc/logrotate.conf`

   `logrotate-3.8.6-4.el7.x86_64`

2. `$ rpm -qil logrotate`

   `...`

   Note a fancier form that combines these two steps would be:

   `$ rpm -qil $(rpm -qf /etc/logrotate.conf)`

3. `$ rpm -V logrotate`

   ```
   ..?......    /etc/cron.daily/logrotate
   S.5....T.  c /etc/logrotate.conf
   ```

4. On **RHEL 7**:

   ```
   $ sudo rpm -e logrotate
   error: Failed dependencies:
           logrotate is needed by (installed) vsftpd-3.0.2-9.el7.x86_64
           logrotate >= 3.5.2 is needed by (installed) rsyslog-7.4.7-7.el7_0.x86_64
   ```

   On **OpenSUSE-Leap 42.1**:

   ```
   $ sudo  rpm -e logrotate
   $ sudo rpm -e logrotate
   error: Failed dependencies:
           logrotate is needed by (installed) wpa_supplicant-2.2-6.2.x86_64
           logrotate is needed by (installed) mcelog-1.20-3.2.x86_64
           logrotate is needed by (installed) iscsiuio-0.7.8.2-40.1.x86_64
           logrotate is needed by (installed) xdm-1.1.11-10.1.x86_64
           logrotate is needed by (installed) libvirt-daemon-1.2.18.4-14.2.x86_64
           logrotate is needed by (installed) apache2-2.4.16-15.1.x86_64
   ```

   Note that the exact package dependency tree depends on both the distribution and choice of installed software.