19.15. APPARMOR 1



Exercise 19.2 SELinux: Contexts

Before starting this exercise verify **SELinux** is enabled and in **enforcing** mode, by editing /etc/selinux/config and rebooting if necessary.

Obviously you can only do this on a system such as **RHEL** where **SELinux** is installed.

1. Install the httpd package (if not already present) which provides the Apache web server, and then verify that it is working:

```
$ sudo yum install httpd
$ elinks http:/localhost
```

(You can also use lynx or firefox etc. as the browser.)

2. As superuser, create a small file in /var/www/html:

```
$ sudo sh -c "echo file1 > /var/www/html/file1.html"
```

3. Verify you can see it:

```
$ elinks -dump http://localhost/file1.html
file1
```

Now create another small file in root's home directory and move it to /var/www/html. (Do not copy it, move it!) Then try and view it:

You don't have permission to access /file2.html on this server.

4. Examine the security contexts:

```
$ cd /var/www/html
$ ls -Z file*html
-rw-r--r-. root root unconfined_u:object_r:httpd_sys_content_t:s0 file1.html
-rw-r--r-. root root unconfined_u:object_r:admin_home_t:s0 file2.html
```

5. Change the offending context and view again:

```
$ sudo chcon -t admin_home_t file2.html
$ elinks http://localhost/file2.html
file2
```

