41.4. LABS



Exercise 41.1: SELinux: Contexts



Please Note

This exercise can only be performed on a system (such as **RHEL**) where **SELinux** is installed. While it is possible to install on **Debian**-based distributions, such as **Ubuntu**, it is not the easiest task and it is not often done.

- 1. Verify **SELinux** is enabled and in **enforcing** mode, by executing **getenforce** and **sestatus**. If not, edit /etc/selinux/config, reboot, and check again.
- 2. 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, or use your graphical browser such as **firefox** or **chrome**, in this and succeeding steps.)

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

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

4. 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.

5. Examine the security contexts:

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```
$ 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
```

6. Change the offending context and view again:

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

