# selinux

everything is set in lables

**HTTP\_T** cannot modify **SHADOW\_T**

You can change the type: Mkdir –Z , cp –Z

Context : **chcon** -> change context . **restorecon** -> restore context

*Context are set when files are created, based on parent directory*

*Not always, like DHclient\_T is going to resolf\_T because it is set policy*

**Semanage** can be used for: login, user, port, interface and module management

Problem with selinux ?

Your labeling is wrong, change the label of the file

Create Booleans to tweak that policy

**What are Booleans?**

Booleans are on-off switches  
from stuff like: “do we allow ftp server acces to home directories?”   
 “httpd can use mod\_auth\_ntlm\_winbind”

Like if you set “do we allow ftp server acces to home directories?”  
 ftp server can acces everything with the label “Home\_t”

**To see all the Booleans**  
getsebool –a  
+ 100..

**Alright how do I set bool?**

Setsebool [Boolean] [0|1]

Add –P to make it permanent

**Help?**

* Yum –y install setroubleshoot setroubleshoot-server

Help to find the problem

* Service auditd restart

**Examples**

Fred: want to have his own web page in /home/fred/public\_html on a webserver

You enable UserDir in /etc/httpd/conf/httpd.conf  
restart webserver  
chmod o+x on /home/fred/public\_html  
**???can’t go to web-page???**  
/var/log/httpd/acces\_log  
/var/log/httpd/error\_log  
/var/log/messages

SELINUX is preventing … from accesing for complete message run:

“sealert –l 9f88ebb-5f4b-4e3a-96b2-7644917fbfc4”  
> you find the right UUID in /var/log/messages

**IT GIVES YOU THE FUCKING COMMANDS:**

Setsebool –P httpd\_read\_user\_context 1  
Setsebool –P hettpd\_enable\_homedirs 1

How can I see what Booleans have been set?

/etc/selinux/targeted/modules/active/booleans.local

**Don’t edit this manually, it will be reloaded, only for information**permissions are wrong but chmod is right -> SELINUX problems  
ls –z /var/www/html

Context is still home\_t

Everything else in > ls- lZ /var/ww/  
has sys\_script\_exec\_t as label  
so change the label of the file /var/www/html/index.html  
**> chcon –t http\_sys\_content\_t /var/www/html/index.html**

OR for easy porpuses

**Chcon - -reference /var/www/html/ /var/www/html/index.html**go look at the labels at /ar/www/html/ and give that reference to the file  
if you copy cp instead of mv it would have taken the right index all along

**Restorechon –vR /var/www/html/**  
restores everything in html folder to the right label

Foo/bar/ needs to be main web server file directory  
> semanage fcontext –a –e /www/var /foo/  
> Restorechon /foo/