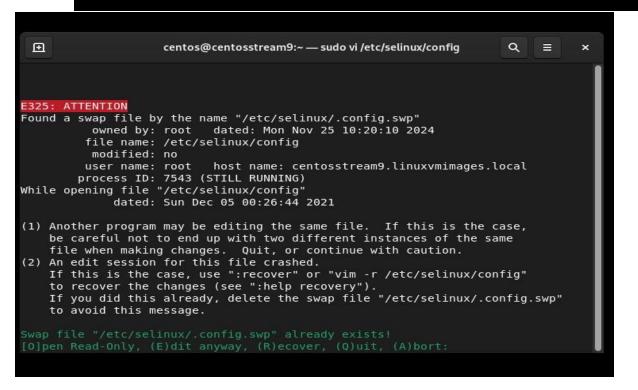
Name : Abdul Rehman RollNO:BSIT51F22S02

Subject : SNA

Topic: Multi-Level Security

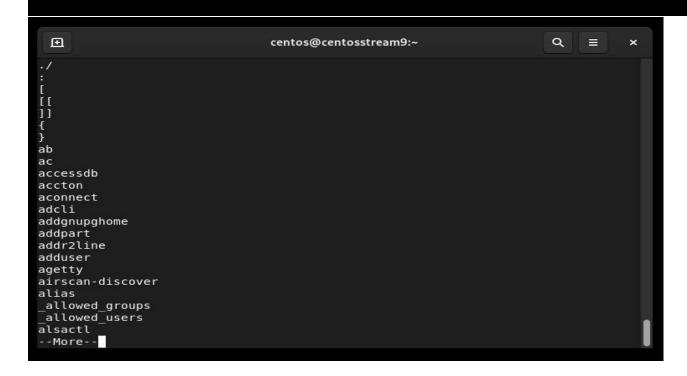
•	centos@cento	Q		×	
<pre>cont cont cont cont cont cont cont cont</pre>	yum install	selinux-policy 5.2 kB/s 4.4 kB/s 1.3 kB/s 1.9 kB/s	6.6 kB 00 6.7 kB 00 1.3 kB 00	:01 :01 :00 :02	
======================================	Arch	Version	Repository	===== Si	=== ze
======================================		=========	=========		
selinux-policy-mls	noarch	38.1.48-1.el9	baseos	4.5	М
Upgrading:					
libsemanage	x86_64	3.6-3.el9	baseos	118	
policycoreutils	x86_64	3.6-2.1.el9	baseos	242	
policycoreutils-python-utils	noarch	3.6-2.1.el9	appstream	77	
python3-libsemanage	x86_64	3.6-3.el9	appstream	79	k
python3-policycoreutils	noarch	3.6-2.1.el9	appstream	2.1	
selinux-policy	noarch	38.1.48-1.el9	baseos	48	k
selinux-policy-targeted	noarch	38.1.48-1.el9	baseos	6.9	М
Installing dependencies:					
mcstrans	x86 64	3.6-1.el9	baseos	152	k
policycoreutils-newrole	x86_64	3.6-2.1.el9	baseos	26	k
nuthon3-dietro	noarch	1 5 0-7 010	annetream	27	L



```
℩
                        centos@centosstream9:~
                                                      Q
Transaction Summary
Install 4 Packages
Upgrade 7 Packages
Total download size: 14 M
Is this ok [y/N]: y
Downloading Packages:
26 kB
                                               152 kB
                                                        00:02
(3/11): python3-distro-1.5.0-7.el9.noarch.rpm (4/11): libsemanage-3.6-3.el9.x86_64.rpm
                                               37 kB
                                                       00:01
                                               118 kB
                                     224 kB/s
                                                        00:00
(5/11): selinux-policy-38.1.48-1.el9.noarch.rpm 92 kB/s (6/11): policycoreutils-3.6-2.1.el9.x86_64.rpm 78 kB/s
                                               48 kB
                                                       00:00
                                               242 kB
                                                       00:03
(7/11): policycoreutils-python-utils-3.6-2.1.el 190 kB/s
                                               77
                                                  kB
                                                        00:00
(8/11): selinux-policy-mls-38.1.48-1.el9.noarch 736 kB/s
                                               4.5 MB
                                                        00:06
(9/11): python3-libsemanage-3.6-3.el9.x86 64.rp 288 kB/s
                                               79 kB
                                                        00:00
(10/11): selinux-policy-targeted-38.1.48-1.el9. 1.3 MB/s
                                               6.9 MB
                                                        00:05
(11/11): python3-policycoreutils-3.6-2.1.el9.no 440 kB/s
                                               2.1 MB
                                                        00:04
```

•	centos@centosstream9:~							×
	age-3.6-3.el9.x86_64.rpm	224	kB/s	118	kB	0	0:00	
	policy-38.1.48-1.el9.noarch.rpm			48	kB	0	0:00	
	reutils-3.6-2.1.el9.x86_64.rpm			242	kB	0	0:03	
(7/11): policyco	reutils-python-utils- $3.\overline{6}$ -2.1.el	190	kB/s	77	kB	0	0:00	
	policy-mls-38.1.48-1.el9.noarch			4.5	MB	0	0:06	- 1
(9/11): python3-	libsemanage-3.6-3.el9.x86_64.rp	288	kB/s	79	kB	0	0:00	
	-policy-targeted-38.1.48-1.el9.			6.9	MB	0	0:05	
(11/11): python3	-policycoreutils-3.6-2.1.el9.no	440	kB/s	2.1	MB	Θ	0:04	
Total		1.0	MB/s	14	МВ	0	0:13	
Running transact								
Transaction chec								
Running transact								
Transaction test								
Running transact								
Running scriptlet: selinux-policy-mls-38.1.48-1.el9.noarch							1/1	
Running scriptlet: selinux-policy-targeted-38.1.48-1.el9.noarch							1/1	
Preparing :							1/1	
Upgrading : libsemanage-3.6-3.el9.x86_64							./18	
Upgrading : policycoreutils-3.6-2.1.el9.x86_64							1/18	
Running scriptlet: policycoreutils-3.6-2.1.el9.x86_64							1/18	
Installing	[전 : 1.] 전 : 1. [전 : 1.] [D : 1.							/18
Upgrading								/18
Installing	: pvthon3-distro-1.5.0-7.el9	. noa	rch				5	/18

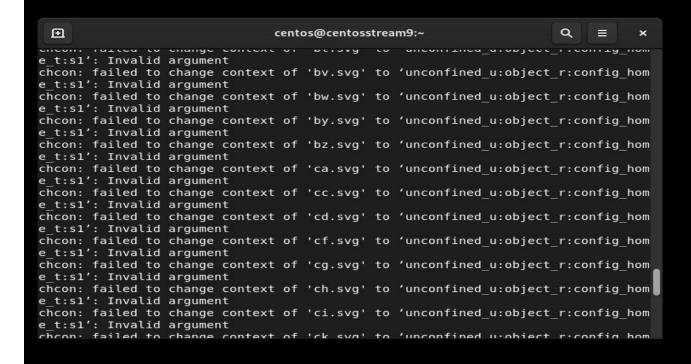
```
\odot
                                                                         Q
                                                                              centos@centosstream9:~
                                                                                    ×
Transaction test succeeded.
Running transaction
  Running scriptlet: selinux-policy-mls-38.1.48-1.el9.noarch
                                                                                  1/1
  Running scriptlet: selinux-policy-targeted-38.1.48-1.el9.noarch
                                                                                  1/1
  Preparing
                                                                                  1/1
  Upgrading
                    : libsemanage-3.6-3.el9.x86 64
                                                                                 1/18
  Upgrading
                    : policycoreutils-3.6-2.1.el9.x86 64
                                                                                 2/18
  Running scriptlet: policycoreutils-3.6-2.1.el9.x86_64
                                                                                 2/18
                : policycoreutils-newrole-3.6-2.1.el9.x86 64
  Installing
                                                                                 3/18
                    : python3-libsemanage-3.6-3.el9.x86 64
                                                                                 4/18
  Upgrading
  Installing
                   : python3-distro-1.5.0-7.el9.noarch
                                                                                 5/18
                  : python3-policycoreutils-3.6-2.1.el9.noarch
: mcstrans-3.6-1.el9.x86_64
                                                                                 6/18
7/18
  Upgrading
  Installing
  Running scriptlet: mcstrans-3.6-1.el9.x86 64
                                                                                 7/18
  Upgrading : selinux-policy-38.1.48-1.el9.noarch Running scriptlet: selinux-policy-38.1.48-1.el9.noarch
                                                                                 8/18
                                                                                8/18
  Running scriptlet: selinux-policy-mls-38.1.48-1.el9.noarch
                                                                                 9/18
  Installing
                   : selinux-policy-mls-38.1.48-1.el9.noarch
                                                                                 9/18
  Running scriptlet: selinux-policy-mls-38.1.48-1.el9.noarch
                                                                                 9/18
  Running scriptlet: selinux-policy-targeted-38.1.48-1.el9.noarch
                                                                                10/18
                    : selinux-policy-targeted-38.1.48-1.el9.noarch
  Upgrading
                                                                                10/18
  Running scriptlet: selinux-policy-targeted-38.1.48-1.el9.noarch
                                                                                10/18
```



Q ≡ **1** centos@centosstream9:~ × [centos@centosstream9 ~]\$ sudo semanage login -m -r s1 example_user ValueError: Login mapping for example_user is not defined
[centos@centosstream9 ~]\$ sudo chcon -R -l s1 /home /example_user
chcon: failed to change context of '{ec8030f7-c20a-464f-9b0e-13a3a9e97384}' to ' unconfined_u:object_r:mozilla_home_t:s1': Invalid argument chcon: failed to change context of a_home_t:s1': Invalid argument 'extensions' to 'unconfined u:object r:mozill chcon: failed to change context of 'plugins' to 'unconfined u:object r:mozilla h ome t:s1': Invalid argument chcon: failed to change context of 'times.json' to 'unconfined_u:object_r:mozill
a_home_t:s1': Invalid argument chcon: failed to change context of '.parentlock' to 'unconfined u:object r:mozil la home t:s1': Invalid argument chcon: failed to change context of 'lock' to 'unconfined_u:object_r:mozilla_home t:s1': Invalid argument chcon: failed to change context of 'compatibility.ini' to 'unconfined_u:object_r :mozilla_home_t:s1': Invalid argument
chcon: failed to change context of 'permissions.sqlite' to 'unconfined_u:object_ r:mozilla_home_t:s1': Invalid argument chcon: failed to change context of 'cookies.sqlite' to 'unconfined u:object r:mo zilla_home_t:s1': Invalid argument chcon: failed to change context of 'prefs.js' to 'unconfined_u:object_r:mozilla_ home_t:s1': Invalid argument

Q (F) × centos@centosstream9:~ t:sl': Invalld argument chcon: failed to change context of 'DawnWebGPUCache' to 'unconfined_u:object_r:c onfig home t:s1': Invalid argument chcon: failed to change context of 'index' to 'unconfined_u:object_r:config_home
_t:s1': Invalid argument chcon: failed to change context of 'data 0' to 'unconfined u:object r:config hom e t:s1': Invalid argument chcon: failed to change context of 'data 1' to 'unconfined u:object r:config hom e t:s1': Invalid argument chcon: failed to change context of 'data_2' to 'unconfined_u:object_r:config_hom e t:s1': Invalid argument chcon: failed to change context of 'data_3' to 'unconfined_u:object_r:config_hom e t:s1': Invalid argument chcon: failed to change context of 'DawnGraphiteCache' to 'unconfined u:object r :config home t:s1': Invalid argument chcon: failed to change context of 'Cookies' to 'unconfined u:object r:config ho me t:s1': Invalid argument chcon: failed to change context of 'Cookies-journal' to 'unconfined u:object r:c onfig home t:s1': Invalid argument chcon: failed to change context of 'Web Data' to 'unconfined u:object r:config h ome t:s1': Invalid argument chcon: failed to change context of 'Web Data-journal' to 'unconfined u:object r: config_home_t:s1': Invalid_argument chcon: failed to change context of 'LOG' to 'unconfined u:object r:config home t

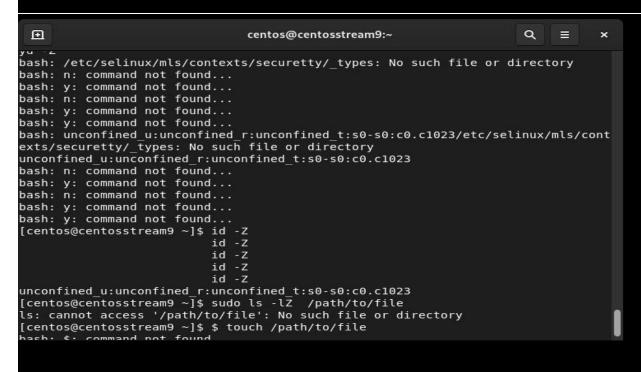
```
ⅎ
                                                                     Q
                               centos@centosstream9:~
                                                                          chcon: failed to change context of '192.png' to 'unconfined u:object r:config ho
me t:s1': Invalid argument
chcon: failed to change context of '256.png' to 'unconfined u:object r:config ho
me t:s1': Invalid argument
chcon: failed to change context of 'Icons' to 'unconfined u:object r:config home
 t:s1': Invalid argument
chcon: failed to change context of 'Icons Monochrome' to 'unconfined u:object r:
config home t:s1': Invalid argument
chcon: failed to change context of 'Icons Maskable' to 'unconfined u:object r:co
nfig_home_t:s1': Invalid argument
chcon: failed to change context of 'fhihpiojkbmbpdjeoajapmgkhlnakfjf' to 'unconf
ined u:object r:config home t:s1': Invalid argument
chcon: failed to change context of '32.png' to 'unconfined_u:object_r:config_home_t:s1': Invalid argument
chcon: failed to change context of '48.png' to 'unconfined_u:object_r:config_hom
e t:s1': Invalid argument
chcon: failed to change context of '64.png' to 'unconfined u:object r:config hom
e t:s1': Invalid argument
chcon: failed to change context of '96.png' to 'unconfined u:object r:config hom
e t:s1': Invalid argument
chcon: failed to change context of '128.png' to 'unconfined u:object r:config ho
me t:s1': Invalid argument
chcon: failed to change context of '192.png' to 'unconfined u:object r:config ho
me t:s1': Invalid argument
```



```
Q
 ⊞
                               centos@centosstream9:~
                                                                          ×
^Z
[6]+ Stopped
                              sudo chcon -R -l s1 /home /example_user
[centos@centosstream9 ~]$
[centos@centosstream9 ~]$
[centos@centosstream9 ~]$
[centos@centosstream9 ~]$ sudo setenforce 1
[centos@centosstream9 ~]$ sudo semanage login -l
Login Name
                     SELinux User
                                          MLS/MCS Range
                                                                Service
 default_
                     unconfined u
                                          s0-s0:c0.c1023
root
                     unconfined u
                                          s0-s0:c0.c1023
[centos@centosstream9 ~]$ & id -Z
bash: syntax error near unexpected token `&'
[centos@centosstream9 ~]$ $ id -Z
bash: $: command not found...
```

```
ⅎ
                                  centos@centosstream9:~
                                                                             Q
                                                                                  \equiv
root
                       unconfined u
                                               s0-s0:c0.c1023
[centos@centosstream9 ~]$ & id -Z
bash: syntax error near unexpected token `&'
[centos@centosstream9 ~]$ $ id -Z
bash: $: command not found..
[centos@centosstream9 ~]$ $ id -Z
bash: $: command not found...
[centos@centosstream9 ~]$ sudo $ id -Z
sudo: $: command not found
[centos@centosstream9 ~]$ $ id -Z
bash: $: command not found...
[centos@centosstream9 ~]$
[centos@centosstream9 ~]$ $ newrole -l s1
bash: $: command not found...
[centos@centosstream9 ~]$ `/etc/selinux/mls/contexts/securetty/_types
Display all 2232 possibilities? (y or n)
```

```
ⅎ
                                centos@centosstream9:~
                                                                      Q ≣
aucti
addgnupghome
addpart
addr2line
adduser
agetty
airscan-discover
alias
_allowed_groups
_allowed_users
alsactl
alsa-info.sh
alsaloop
alsamixer
alsaunmute
```



```
Ð
                                                                             centos@centosstream9:~
[-h host] [-p prompt] [-R directory] [-T timeout] [-u user] file ...
[centos@centosstream9 ~]$ $ cat /path/to/file
bash: $: command not found...
[centos@centosstream9 ~]$ $ cat /path/to/file
bash: $: command not found...
[centos@centosstream9 ~]$ $ cat/path/to/file
bash: $: command not found...
[centos@centosstream9 ~]$ $ cat/path/to/file
bash: $: command not found...
[centos@centosstream9 ~]$ $ logout
bash: $: command not found...
[centos@centosstream9 ~]$ sudo logout
sudo: logout: command not found
[centos@centosstream9 ~]$ sudo id
uid=0(root) gid=0(root) groups=0(root) context=unconfined_u:unconfined_r:unconfi
ned t:s0-s0:c0.c1023
[centos@centosstream9 ~]$ sudo sentenforce 1
sudo: sentenforce: command not found
[centos@centosstream9 ~]$ sudo setenforce 1
[centos@centosstream9 ~]$ sudo semodule -Lfull | grep "local mls"
semodule: invalid option -- 'L'
[centos@centosstream9 ~]$ sudo semodule -Lfull | grep "local_mls"
semodule: invalid option -- 'L'
[centos@centosstream9 ~]$
```