[FlashD●T-intel~]\$ [HR → intel ~]\$ [Intel → intel ~]\$ /home/gary/Research /home/ivan/HR Complaint Log Complaint Log /home/gary/Secret /home/ivan/Events Financial Documents Financial Documents [IT dintel ~]\$ [Finance → intel ~]\$ /home/frederick/Budget /home/freddy/Security Complaint Log Complaint Log /home/frederick/Payroll /home/freddy/Support

Financial Documents

Financial Documents

[FlashD●T-intel~]\$ ls

Gary_Tsai Ivan_Lugo Freddy_Velez Frederick_Chute

G.I.F.F CHAR

NAME		:	:	C	ATEGOR	Υ	:	:	
CAPL	c1				с5		c 7	с8	
12N		c2				с6		с8	
FREDERICA			с3			с6		с8	
PREDOX				с4	c 5		c 7	с8	

			PRIVILEGE	CHART	
		GARY	FREDERICK	FREDDY	IVAN
DEPARTMENT	DIRECTORY	~~~	~~~~~	~~~~	~~~
חוו	HR				*
ПК	EVENTS	*	*	*	*
IT	SECURITY	*		*	
	SUPPORT	*	*	*	*
ENANCK.	BUDGET	*	*	*	*
MCK	PAYROLL		*		*
12/2	RESEARCH	*		*	
	SECRET	*			

Keys of who we are: Intel=s0:c1 HR=s0:c2Finance=s0:c3 IT=s0:c4

S= sensitivity C = category

Keys of what we have:

c8= Used to share among all departments

Multi-Category Security

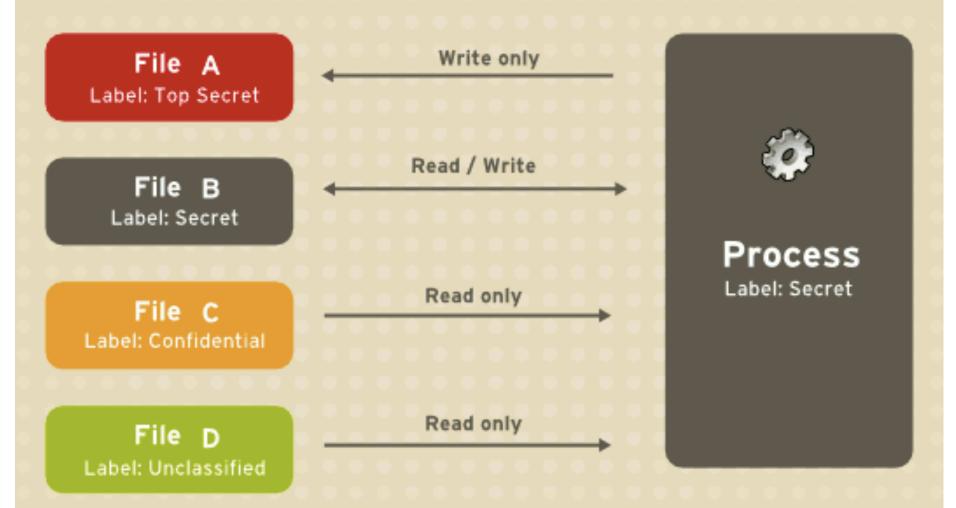
[root@CentOS ~]# semanage login -l							
Login Name	SELinux User	MLS/MCS Range	Service				
default freddy frederick gary garytsai guestuser ivan restricteduser root system u	user_u user_u user_u user_u root guest_u user_u user_u system_u system	s0 s0:c4,c5,c7,c8 s0:c3,c6,c8 s0:c1,c5,c7,c8 s0-s0:c0.c1023 s0 s0:c2,c6,c8 s0 s0-s0:c0.c1023 s0	* * * * * * * * * * * * * * *				
tony [root@CentOS ~]#	guest_u	s0	*				

• •		heartlee	ch — root@CentOS:~ — ssh garytsai@projectcento	os.adns.net -p 2663 — 109×19
[root@CentOS ~]# semanage	user -l		
_				
	Labeling	MLS/	MLS/	
SELinux User	Prefix	MCS Level	MCS Range	SELinux Roles
guest_u	user	s0	s0:c0	guest_r
root	user	s0	s0-s0:c0.c1023	staff_r sysadm_r system_r unconfined_r
staff_u	user	s0	s0-s0:c0.c1023	staff_r sysadm_r system_r unconfined_r
sysadm_u	user	s0	s0-s0:c0.c1023	sysadm_r
system_u	user	s0	s0-s0:c0.c1023	system_r unconfined_r
unconfined_u	user	s0	s0-s0:c0.c1023	system_r unconfined_r
user_u	user	s0	s0-s0:c0.c1023	user_r
xguest_u	user	s0	s0	xguest_r
[root@CentOS ~	.]#			

Multi-Level Security



Available data flows using an MLS system.



Processes can read the same or lower security levels but can only write to their own or higher security level.

isuuoi pussworu roi yurgisui: [root@centos ~]# semanage login -l Login Name SELinux User MLS/MCS Range Service _default__ s0user_u fred s1:c200 user_u frederick s2:c400 user_u s3:c500 gary user_u ivan s2:c300 user_u s0-s15:c0.c1023 root root s0-s15:c0.c1023 system_u system_u [root@centos ~]# _

[root@centos '	"]# semanage	user -l		
	Labeling	MLS/	MLS/	
SELinux User	Pref ix	MCS Level	MCS Range	SELinu×
es				
guest_u	user	s 0	s0	${ t guest_r}$
root	user	0 2	s0-s15:c0.c1023	auditad
staff_r secadı	m_r sysadm_r	system_r		
staff_u	user	02	s0-s15:c0.c1023	auditad
staff_r secadı	n_r sysadm_r	system_r		
sysadm_u	user	0 2	s0-s15:c0.c1023	sysadm_
system_u	user	0 2	s0-s15:c0.c1023	system_
user_u	user	8 2	s0-s15:c0.c1023	user_r
xguest_u	user	8 2	80	xguest_
[root@centos '	~]# <u> </u>			