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CPTS 427

Computer Security

Project 2

**Part 1**

1A)

chmod 660 class1\_grades.txt

chmod 660 class1\_grades.txt

sudo groupadd instructor

sudo groupadd TA1

sudo groupadd TA2

sudo groupadd class1

sudo groupadd class2

sudo usermod –a –G instructor user1

sudo usermod –a –G TA1 user2

sudo usermod –a –G TA2 user3

sudo usermod –a –G class1 user4

sudo usermod –a –G class2 user5

sudo chown :instructor class1\_grades.txt

sudo chown:instructor class2\_grades.txt

after ll

-rw –rw –-—1 seed instructor 9 Oct 6 23:09 class1\_grades.txt

-rw –rw –-—1 seed instructor 8 Oct 6 23:09 class1\_grades.txt

The requirements cannot be met since class1 and class2 groups do not go anywhere since the TA1 and TA2 groups the group permissions and the instructor took owner permissions and we cannot allow non class members to view grades so the others permissions must not be readable.

This would only work if anybody could look at the grades which we can’t allow.

1B)

sudo setfacl –m group:TA1:rw class1\_grades.txt

sudo setfacl –m group:TA2:rw class2\_grades.txt

sudo setfacl –m group:class1:r class1\_grades.txt

sudo setfacl –m group:class2:r class2\_grades.txt

getfacl class1\_grades.txt

getfacl class2\_grades.txt

# file: class1\_grades.txt

# owner: seed

# group: instructor

user::rw-

group::rw-

group:TA1:rw-

group:class1:r—

mask::rw-

other::---

# file: class2\_grades.txt

# owner: seed

# group: instructor

user::rw-

group::rw-

group:TA2:rw-

group:class2:r—

mask::rw-

other::---

**Part 2**

See Code and run ./mk