	AQTT Cont
	MQTT Security
Ар	plying Username and password based restriction on broker
// f	first stop the mosquitto broker, if it is running
->>	> sudo service mosquitto stop
	ere are two methods two create a password file, having password
en	crypted with hash code
Fire	st method :
	creating a file passwd inside the mosquitto directory with username
an	d password (encrypted with hashcode)
#L	Jsing mosquitto_passwd utility
SU	do mosquitto_passwd -c /etc/mosquitto/passwd <user_name></user_name>
#it	t will prompt to enter password twice #enter and remember
	It will create a password file named passwd in /etc/mosquitto
dir	rectory
//s	imple check that file is created or not??
> >	> cd /etc/mosquitto
>>	> ls
	onen the mesquitte conf file with any editor, say nano
	open the mosquitto.conf file with any editor, say nano
>>	> nano /etc/mosquitto/mosquitto.conf
// 6	add these two entries in bottom

password_file /etc/mosquitto/passwd // password file path allow anonymous false // not to allow anonymous users
without username and pass.
#Restart the broker with mosquiito.cong file
sudo mosquitto -c /etc/mosquitto/mosquitto.conf -d
#Add more username and password in the same file
sudo mosquitto_passwd -b /etc/mosquitto/passwd cdac cdac123
#above line will add cdac and cdac123 username and password respectively in passwd file located at mosquitto directory
restart the broker to reflect the changes with configuartion file
sudo mosquitto -c /etc/mosquitto/mosquitto.conf -d
Explore other options to delete a user from the file with -D flag
mosquitto_passwdhelp
Second method :
create a file say - passwd
sudo nano /etc/mosquitto/passwd
#enter username:password (multiple username and password allowed)
cdac:cdac123
desd:desd123
#save it,

#cdac and desd are two users and cdac123 and desd123 are passwords.
#encrypt the passwords in hashcode format
sudo mosquitto_passwd -U /etc/mosquitto/passwd
cat passwd #observe the contents
@repeat the above steps to restart the borker
sudo mosquitto - c /etc/mosquitto/mosquitto.conf
Test that now mosquitto_pub (publisher) and mosquitto_sub (subscriber)
are only able to connect with broker only with correct username and pass
else connection refused shall return.
mosquitto_pub -t cdac/acts -u cdac -P cdac123 -l
u - username , -P - paasword (P in caps)
mosquitto_sub -t cdac/acts -u cdac -P cdac123
some basic commands to start stop and check status of mosquitto
sudo service mosquitto start #last argument (start/stop/status)
sudo systemctl start mosquitto #start/stop/status
sudo /etc/init.d/mosquitto start #stop/status