

CO515 – LAB 4

E/15/202

Compare the flow configuration delay over encrypted and unencrypted channels.

Unencrypted Channel	Encrypted Channel
Switch and controller exchange packets in a less time. For example comparing packets in of-without-ssl.pcapng we can see that it only 0.004 seconds to exchange openflow request and reply between controller and switch.	It takes time to handshake between server and controller. As soon as the controller is configured with ssl, switches send client hello message to server(means controller) then before sending the message sever hello controller has to check certificate, server key exchange, certificate request. If they all are fine server sends server hello message to the client. Then again the client has to check it with certificate, client key exchange, certificate verify, change cipher. Likewise it takes about 0.022 s for all these verifications among the switch and controller.