

# Instructions for A2 Demo

NSS2 W25

## Objective

You will be required to demonstrate that you

1. Have properly implemented the Needham-Schroeder Protocol.
2. All entities are properly multithreaded
3. File Conversion is working without any problem
4. Correct usage of OpenSSL
5. Well written code with proper documentation where required
6. Being able to demonstrate the different steps of the NS Protocol properly, using packet capture to show appropriate messages being sent over the wire

Time allocated - 15 minutes

## Things to prepare

1. Ensure all of your VMs are working as expected. Incase of any issues in setting up of the VMs, you must email me before your demo slot to inform me of the same.
2. Ensure you have already set up your KDC and PrnSrv properly before the demo so that you only need to launch the client to initiate connection
3. Ensure that you already have a terminal with the packet capture running. If you are running terminal based packet capture, please make sure that I can see the payload bytes as well on the screen
4. Keep a test file ready that you will use for demonstration purposes.
5. Demonstrating that your binaries are properly multithreaded by demonstrating a stress test designed by you.
6. You should be extremely familiar with your codebase and should be able to pinpoint the following
  - a. Each step of the NS Protocol for all the programs
  - b. Usage of openssl for encryption and decryption
  - c. Appropriate code comments

You can use the following one liner to start multiple client connections, replacing the dummy text with your client command

```
for i in {1..10}; do <YOUR PROGRAM> & done
```