

Advanced Computer Architecture Laboratory – Fall 2019

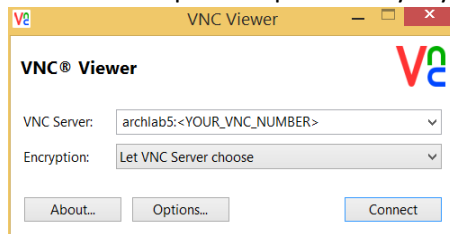
First day instructions

Lab Rules:

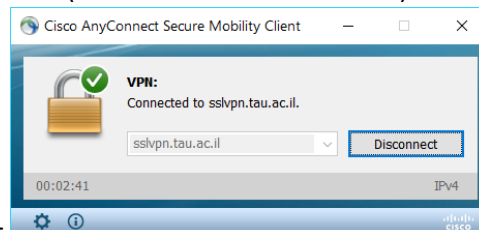
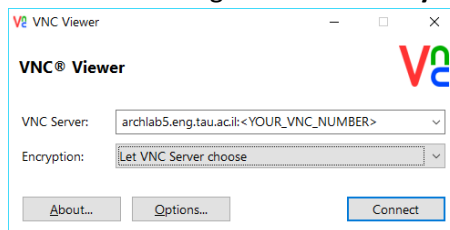
1. Your attendance is important for your success in the lab.
2. The assignments are performed in pairs only.
3. Keep the working station clean. No food/drinks are allowed in the lab.
4. When you finish working – tidy up the chairs and log-off the local machine.

Technical Info:

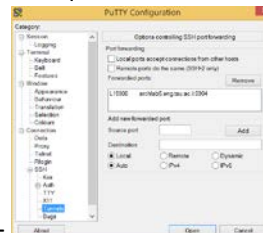
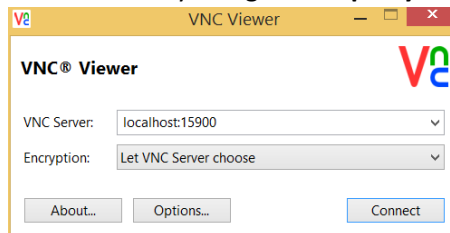
1. Windows (local machine) login name: your university credentials
2. The lab workspace is in the **archlab5** computer. It's a server that resides in the faculty and it runs a *linux* based OS. Each one of you should create a private account on the archlab5 computer.
3. First connection: Your archlab5 account is automatically created upon your first connection:
 - a. Open putty.exe and connect to *archlab5.eng.tau.ac.il*
 - b. Login using your university username and password
 - c. If no VNC-related messages show up on the screen, run the command `vncserver`
 - d. Choose a password for the VNC remote desktop. (Advise: use your university password)
 - e. You'll be assigned a VNC number, it should appear after a colon, for example **:4**
 - f. *Don't forget your VNC number*
 - g. *Never logout from VNC. When you finish your working session on the archlab5 computer, just close the VNC viewer window.*
4. You will work on the archlab5 computer remotely, in one of the following ways:
 - a. From the campus computers only: by using **VNC** software.



- b. From home: using **VNC & Cisco Anyconnect**. (read the manual in Moodle)



- c. From home: by using **VNC & putty** software. (read the manual in Moodle)



5. VNC tip: set up a screen resolution by running the following command in the Linux terminal:
`xrandr -s 1920x1200`

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6. VNC tip: allow a shared clipboard (copy&paste) between the VNC viewer and the local machine:
`vncconfig &`
7. File transfer between your local machine and the archlab5, you may use one of the following:
 - a. WinScp - software that allows transfer between your local machine and archlab5.
 - b. Email/Dropbox/Google-Drive – upload directly from archlab5 server.

Note: Disk-On-Key won't help here, since the archlab5 is a remote server!
8. Code editing on archlab5:
 - a. Most of the time, even the simple `gedit` editor will be just enough. Alternatively, use `eclipse` or download `clion` to edit your program code.
 - b. Use `diff <file1> <file2>` to quickly check differences between two textual files.
Use `meld` or `vimdiff` to see the differences in a convenient, visual way.
9. Lab materials: On archlab5, all the lab sources and materials can be found at
`/eda_sys/archlab2019`
10. Copy the lab1 folder to your home directory and begin working.
11. Good Luck!