Assignment 04 Linux Shell and Networking

- 1. Explain in your own words: what are relations among Bash, Korn, and C Linux shells? Besides main and popular Bash shell, when do we need to use Korn and C shell?
- 2. What is the command used to make a variable available to subshell? What shell variable contains the directory stack? How may we may be able to process (access) the related stack contents?
- 3. How may we kill a Linux process?
- 4. Does the Korn shell support recursive functions? If yes, we may want to make sure that the function will have an exit condition? Why?
- 5. Why most computer centers (e.g. national labs, HPC centers) only allow secure shell access, such as ssh etc., while not allow ftp etc. access? Give an example command line on: secure access your remote host account at qbc2.loni.org, with x-window function.
- 6. What is the difference between the http and https protocols?
- 7. What is the difference between a gateway and a router? Can a router be a gateway?
- 8. Using your own words to describe how scp (command) works. Give an example of the following: we need to copy one software folder named src in your qbc2.loni.org home directory to your local current directory. Assume you are using Linux terminal.