

Lab1

Basic Commands.

Read carefully the instructions before performing!!!

Submission in pairs : 18/11/24 for the groups of Monday
21/11/24 for the groups of Thursday

Objectives

- To learn how to use the Linux operating system (OS)
- How to connect to the command-line terminal
- Basic commands

Connect to a Linux command line terminal

1. First, connect to the **VDI** service.
2. In VDI, choose the **MobaXterm**.
3. Connect to the Linux terminal via **ssh** service in MobaXterm (don't forget to use your **private key**).

Linux Distributions

A linux distribution is an operating system (OS) made from a software collection (includes Linux kernel, package management system). Various Linux Distributions: Ubuntu, Fedora, OpenSuse, Linux Mint.

The shell+ Command Line

- Shell is a program that accepts your commands and executes them.
- Command line starts with the **prompt**

Prompt structure: `username@hostName:cwd$` (or `#` for superuser)

Tilde (~) represents the home directory of the currently logged in user

Examples of prompt:

- `tamar@tamar-G3-3500:~$`
- `tamar@tamar-G3-3500:~/Mydir$`
- `root@tamar-G3-3500:~#`

Basic Linux Commands

pwd – shows the **p**resent **w**orking **d**irectory

ls – **l**ists the files in the present directory

mkdir dir_name – create a new directory dir_name

cd dir_name – go to the directory dir_name (**c**hange **d**irectory)

clear – **clear** the screen

man – get help

pico filename – open file using pico editor (to save the file Ctrl+X, then press Y, then press Entry)

Procedures

1. Create directory MyLinuxDir (use **mkdir**).
2. Go to MyLinuxDir (use **cd**).
3. Create in MyLinuxDir **5** directories :
 - Lab1
 - two with the names starting with the capital letter **B** and
 - two of the same names, but starting with the small letter **b**.

Note: Linux is case sensitive

4. Show the contents of the directory (use **ls**).
5. Go to *MyLinuxDir/Lab1*.
6. Check where are you (use **pwd**).
7. Open new file **lab1.sh** (use **pico**).
8. Write in **lab1.sh** all the above (1-7) procedures
9. Use **man** to get information about **pwd** and **ls**
10. Clear the screen (use **clear**).

Submission

Create one compressed file named **Linux_Lab1_id1_id2.tar**, where id1 and id2 must be changed to the id numbers of the two partners.

This file will include the lab1.sh file.

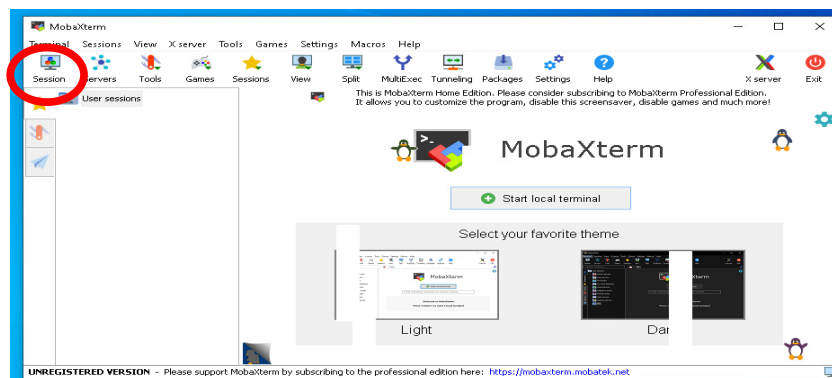
To create such file in Linux command line write:

```
$ tar -cvf Linux_Lab1_id1_id2.tar lab1.sh
```

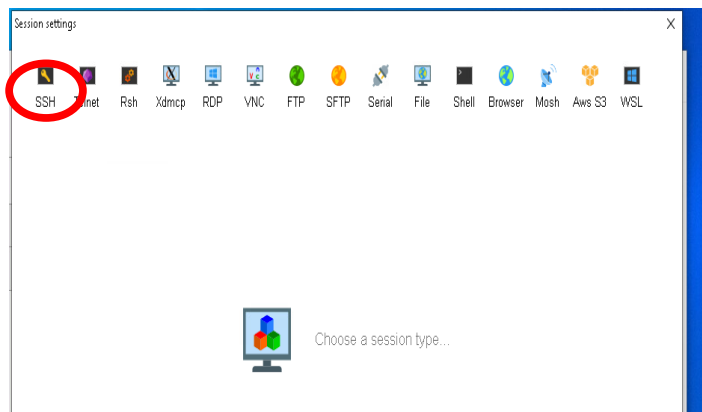
Submit **only** the file **Linux_Lab1_id1_id2.tar** in Moodle and only by **one** of the partners.

Connect to the Linux command line terminal

1. To connect to the server, in MobaXterm choose **Session**



2. Choose **ssh**:



3. Define :

- in frame 3 the server address:

cs.telhai.ac.il

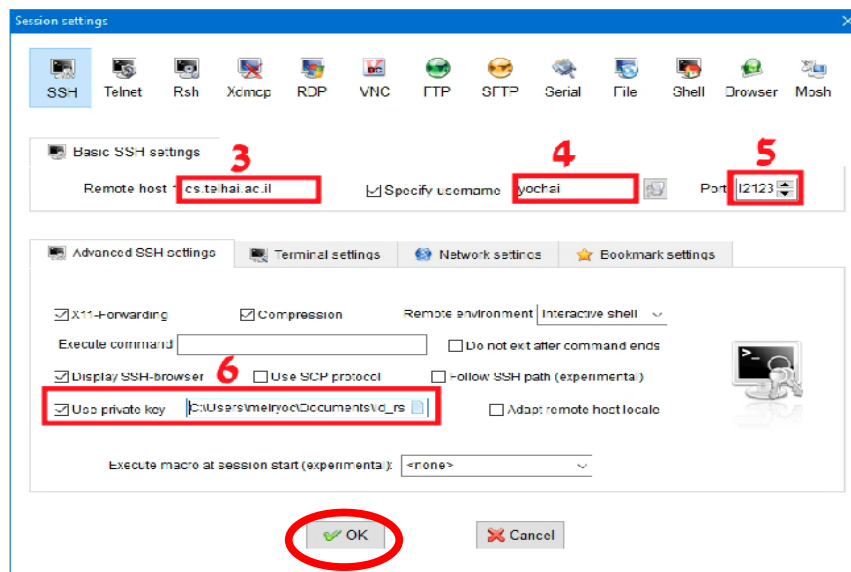
- in frame 4 your username. The username is cs and then your id.

For example: **cs123784956**

- in **frame 5** the Port :

12123

- in frame 6 the place where you saved your **Private key**



4. Press OK and you are in.

5. The initial password is

Tih@2006-2019

you should change it.