1. To connect to the Oleg supercomputer using Windows OS:
2. Download and install PuTTY and WinSCP software:

<https://www.putty.org/>

<https://winscp.net/eng/download.php>

1. Connect to the Oleg cluster via PuTTY:

Host name: 195.133.216.203

And enter your login and password:

Where XX being the number sent to you in two-digit format, e.g. number three

corresponds to user03.

1. To upload files from your computer to the cluster and save files from the cluster to your computer, you can use WinSCP program with the same host name, login and password:

1. To connect to the Oleg supercomputer using Linux OS via terminal:

1. shh to your account:

$ ssh userXX@195.133.216.203

Where XX being the number sent to you in two-digit format, e.g. number three

corresponds to user03.

And enter your password.

1. To upload files from your computer to the cluster and save files from the cluster to your computer, you can use *rsync* tool:

Note: When use rsync you should not be connected to the cluster via ssh.

For example, to transfer files to the cluster:

$ rsync [options] source userXX@195.133.216.203:[destination]

In the above example, the [destination] is optional, as when left out SCP will simply copy the source into the user’s home directory. Also, the source should be the absolute path of the file/directory being copied or the command should be executed in the directory containing the source file/directory.

Or to transfer files from the cluster to your computer:

$ rsync [options] userXX@195.133.216.203:[source] destination

1. Most popular commands:

$ *mkdir* *dir1* – to make a directory *dir1*

$ *cd dir1* – move to the directory *dir1*

$ *cp file dir1* – copy *file1* to the directory *dir1*

$ *cp -r dir1 dir2* – copy directory *dir1* to the directory *dir2*

$ *rm file1* – remove *file1*

$ *rm -r dir1* – remove directory *dir1*

$ *module load module1* – load module, i.e. python or uspex

$ *module list* – check which modules are loaded

$ *module avail* – check which modules are available

$ *module purge* – unload all modules

$ *bash scr.sh* – run script *scr.sh*

$ *sbatch pbs.sh* – queue a task *pbs.sh*

1. On Oleg cluster we use Slurm task Manager (<https://slurm.schedmd.com/sbatch.html>). The basic header or the run script is:

#!/bin/sh

#SBATCH -p lenovo

#SBATCH -J JobName

#SBATCH -t 48:00:00

#SBATCH -N 1

#SBATCH -n 16

and to run your script you have to print the following command:

$ sbatch jobname.sh