**UNIVERSITY OF INFORMATION TECHNOLOGY**

**HO CHI MINH CITY NATIONAL UNIVERSITY**

**Cloud Computing**

**Group 5**



**Big Assignment Report**

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Thành phố Hồ Chí Minh, ngày 25 tháng 11 năm 2022

**1. Install mpi packages on master and node 1 and node 2 machines.**

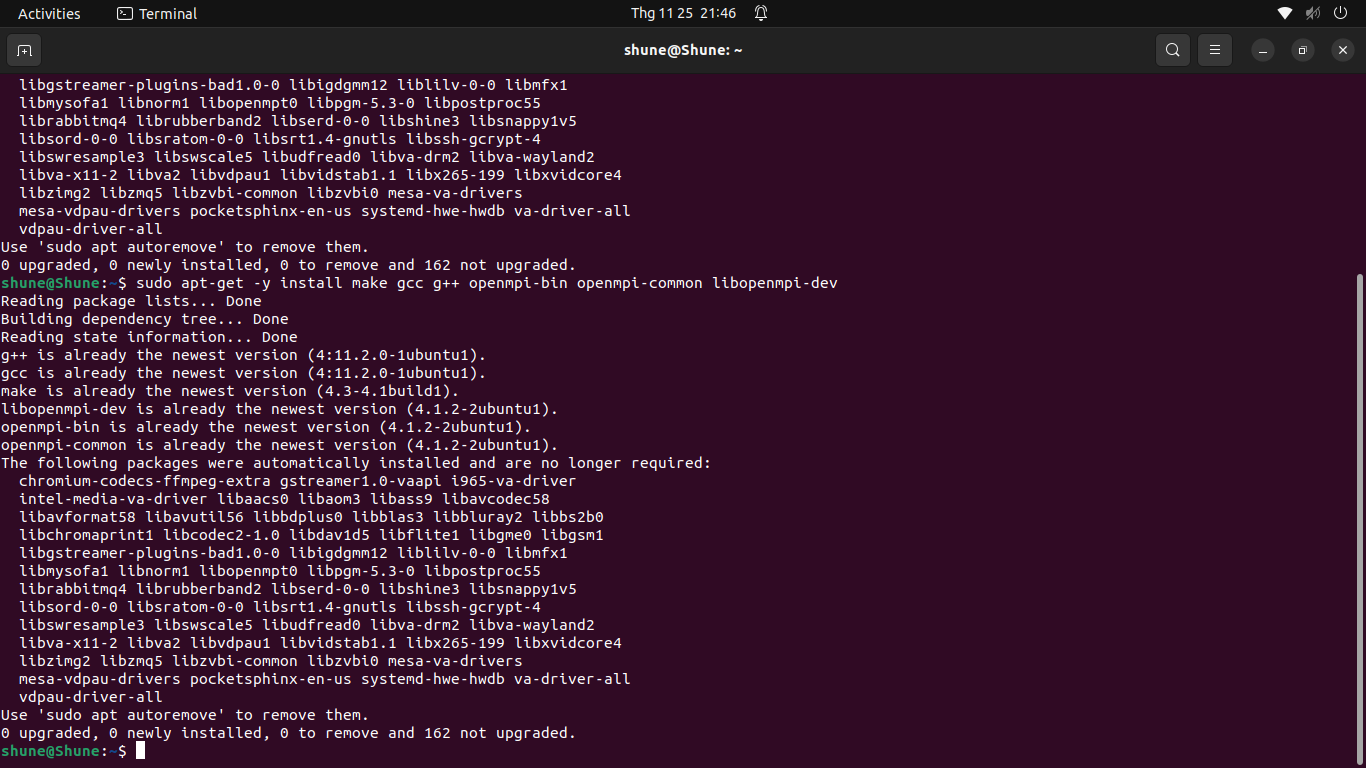


Figure 1: Install mpi packages on master.

Text

Description automatically generated

Figure 2: Install mpi packages on node1.

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Figure 3: Install mpi packages on node1.

Figure : Install mpi packages on master.

Figure : Install mpi packages on node1.

Figure : Install mpi packages on node1.

**2. Create public/secret key in master to share with node 1 and node 2 machines**

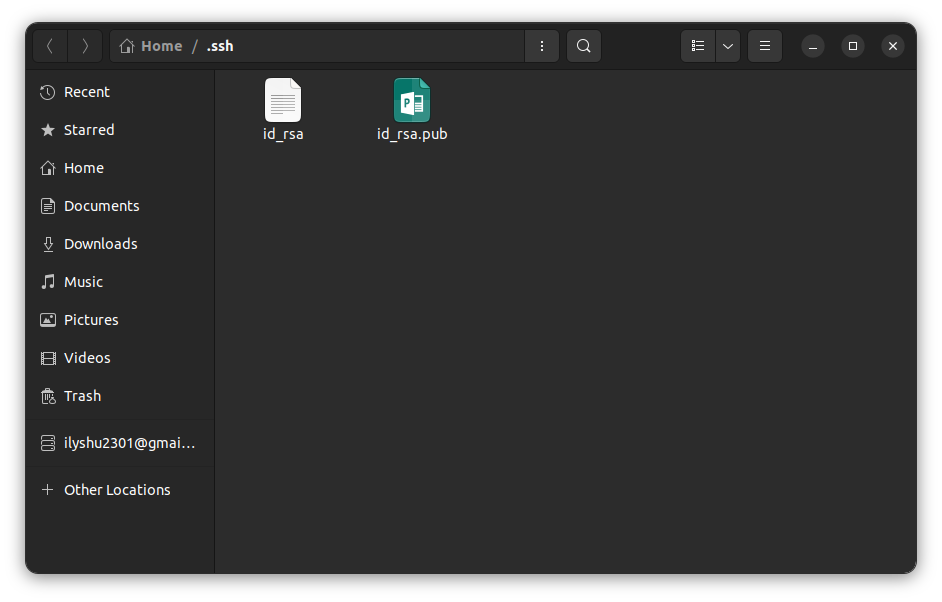


Figure : Public/secret key generated on master.

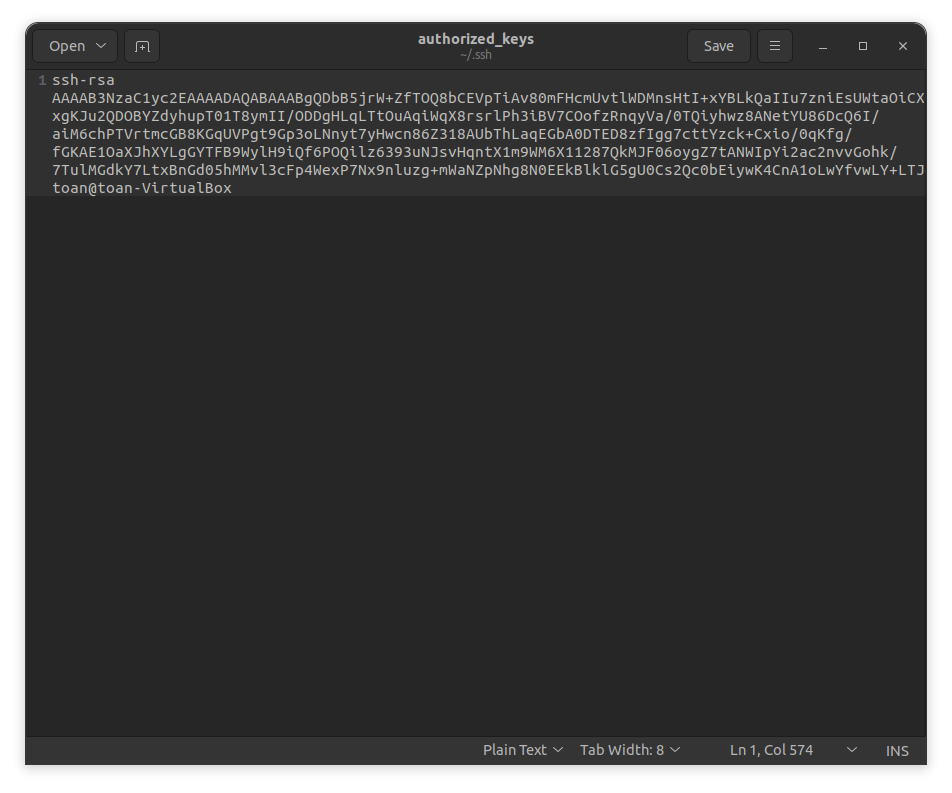


Figure : Public/secret key in master to share with node 1 and node 2 machines.

**3. Connect machines together using hostname mpi**

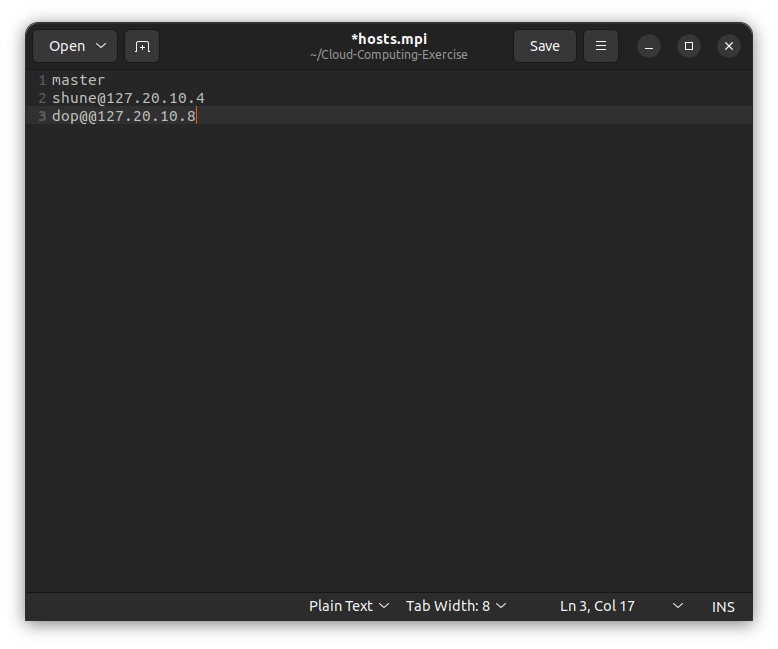


Figure : Create hosts.mpi file and fill in ip node 1 and node 2 machine.

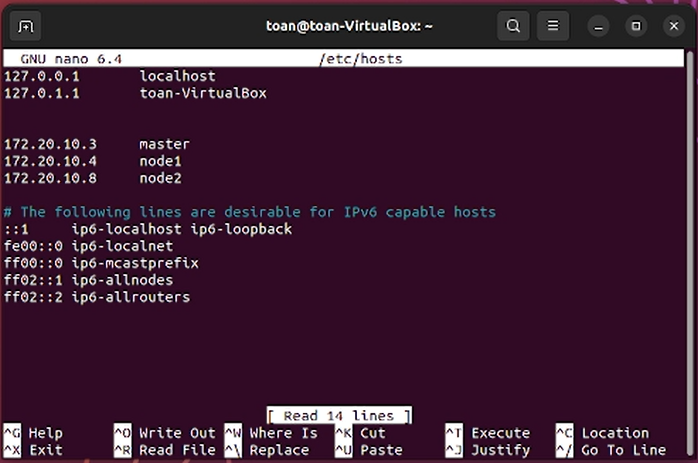
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Figure : mpi connection information 3 machines: master, node1 and node2.

**4. Compile the pi.c file and run mpi it on 3 machines: master, node1 and node2**

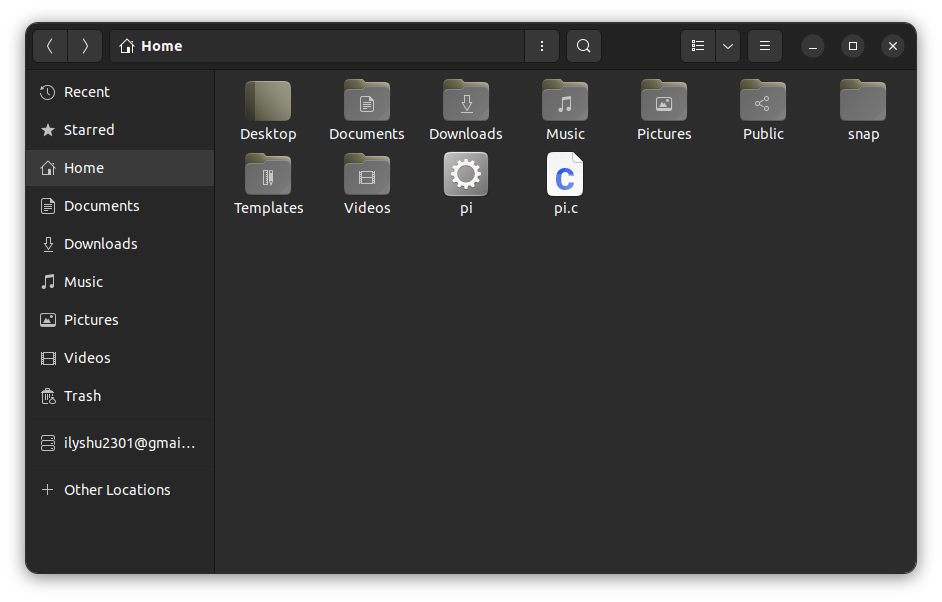


Figure : Complite file pi.c then send to node1 and node2 and run mpirun

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Figure : The result after calculating pi