

Commands for Installing The MPI package

- `tar -xvf mpich.tar.gz` -- this command was used to unzip mpi package.
- `cd mpich-1.2.7p1`
- `./configure` -- to compile the mpi package
- `make` --to install the mpi package
- `export PATH=$PATH:/usr/local/mpich-1.2.7p1/bin` --this path was given in the files named `~/.profile` and `~/.bashrc`.

Commands to configure ssh and make it password less

- We add all the IP addresses of all the nodes in the format shown below in the file `/etc/hosts`.
`172.22.29.80 node1`
- We generated the public and private keys by using the command :
`Ssh-keygen -t rsa`
They were saved by the name `id_rsa` for private key and `id_rsa.pub` for public key.
Both these files were copied in the `authorized_keys` file by using the command :
`Cat ~/.ssh/id_rsa | ssh root@localhost "cat - >> ~/.ssh/authorized_keys"` --for private key.
`Cat ~/.ssh/id_rsa.pub | ssh root@localhost "cat - >> ~/.ssh/authorized_keys"` ---for public key.
- Password less ssh is done by copying the public keys of all the nodes in every node's `authorized_keys` file.
- Password less ssh is ready.