

```
mpiususer@firmanubuntu2: ~/bubble
Setting up dpkg-dev (1.21.1ubuntu2.2) ...
Setting up libjs-sphinxdoc (4.3.2-1) ...
Setting up g++ (4:11.2.0-1ubuntu1) ...
update-alternatives: using /usr/bin/g++ to provide /usr/bin/c++ (c++) in auto mode
Setting up build-essential (12.9ubuntu3) ...
Setting up python3-dev (3.10.6-1~22.04) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.4) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
Defaulting to user installation because normal site-packages is not writeable
Collecting mpi4py
  Downloading mpi4py-3.1.5.tar.gz (2.5 MB)
----- 2.5/2.5 MB 1.5 MB/s eta 0:00:00
  Installing build dependencies ... done
  Getting requirements to build wheel ... done
  Preparing metadata (pyproject.toml) ... done
Building wheels for collected packages: mpi4py
  Building wheel for mpi4py (pyproject.toml) ... done
  Created wheel for mpi4py: filename=mpi4py-3.1.5-cp310-cp310-linux_x86_64.whl size=2746521 sha256=cbb13d8d0c34695d79e37c7b543b6db18f6d475d6093efe0718ad10fbcd8363e
  Stored in directory: /home/mpiususer/.cache/pip/wheels/18/2b/7f/c852523089e9182b45fca50ff56f49a51eeb6284fd25a66713
Successfully built mpi4py
Installing collected packages: mpi4py
Successfully installed mpi4py-3.1.5
mpiususer@firmanubuntu2:~$ touch /home/mpiususer/bubble/bubble.py
mpiususer@firmanubuntu2:~$ cd /home/mpiususer/bubble
mpiususer@firmanubuntu2:~/bubble$ nano bubble.py
mpiususer@firmanubuntu2:~/bubble$ nano bubble.py
mpiususer@firmanubuntu2:~/bubble$ ^C
mpiususer@firmanubuntu2:~/bubble$ python bubble.py
Command 'python' not found, did you mean:
  command 'python3' from deb python3
  command 'python' from deb python-is-python3
mpiususer@firmanubuntu2:~/bubble$ python3 bubble.py
List sorted with bubble sort in ascending order: [1, 2, 3, 4, 5]
mpiususer@firmanubuntu2:~/bubble$ ^C
mpiususer@firmanubuntu2:~/bubble$
```

Mohon maaf yang sebesar besarnya tugas yang di berikan oleh bapak hanya ini yang bisa saya lakukan. Saya sudah mencoba berkali kali tetapi tetap gagal, saya selalu gagal dalam pembuatan key gen nya dan tidak bisa menyambung antara node master dengan slave, ketika di mpirun selalu tidak konek. Dan hanya bia menampilkan file python di 1 server saja. Mohon maaf atas ketidak mampuan saya, setidaknya saya telah mencobanay. Keinginan saya dari tugas ini kepda bapak Adi yang terhormat untuk bisa membimbing saya dalam tugas ini. Terimakasih

ChatGPT

chat.openai.com/c/04c0728e-3235-48b4-8edf-9183614c13d6

ChatGPT 3.5

Anda mungkin perlu

2. Generate SSH Key Pair:

```
bash
ssh-keygen -t rsa
```

Perintah ini akan membuat pasangan kunci SSH. Anda mungkin diminta untuk memasukkan lokasi penyimpanan kunci dan kata sandi opsional. Secara default, kunci akan disimpan di `~/.ssh/id_rsa` (kunci pribadi) dan `~/.ssh/id_rsa.pub` (kunci publik).

3. Transfer Public Key ke Mesin Remote:

```
bash
cd ~/.ssh
```

Pindah ke direktori `~/.ssh` di mana kunci SSH disimpan.

```
bash
cat id_rsa.pub
```

Tampilkan isi kunci publik. Salin teks yang ditampilkan.

Message ChatGPT...

ChatGPT can make mistakes. Consider checking important information.

firmman@firmmanubuntu:~\$ bubble.py

bubble.py: command not found

firmman@firmmanubuntu:~\$ mplexec -n 2 python3 bubble.py

python3: can't open file '/home/firman/bubble.py': [Errno 2] No such file or directory

python3: can't open file '/home/firman/bubble.py': [Errno 2] No such file or directory

Primary job terminated normally, but 1 process returned a non-zero exit code. Per user-direction, the job has been aborted.

mplexec detected that one or more processes exited with non-zero status, thus causing the job to be terminated. The first process to do so was:

Process name: [[20834,1],0]

Exit code: 2

firmman@firmmanubuntu:~\$ python3 bubble.py

python3: can't open file '/home/firman/bubble.py': [Errno 2] No such file or directory

firmman@firmmanubuntu:~\$

mpuser@firmmanubuntu2:~/bubble

Preparing metadata (pyproject.toml) ... done

Building wheels for collected packages: mpi4py

Building wheel for mpi4py (pyproject.toml) ... done

Created wheel for mpi4py: filename=mpi4py-3.1.5-cp310-linux\_x86\_64.whl size=2746521 sha256=cbb13d8dc34695d79e37c7b543b6db18f6d475d6099ef0718ad10fbed9363e

Stored in directory: /home/mpuser/.cache/pip/wheels/18/2b/71/c852523089e9182b45fca50ff56f49a51eeb6284fd25a66713

Successfully built mpi4py

Installing collected packages: mpi4py

Successfully installed mpi4py-3.1.5

mpuser@firmmanubuntu2:~\$ touch /home/mpuser/bubble/bubble.py

mpuser@firmmanubuntu2:~\$ cd /home/mpuser/bubble

mpuser@firmmanubuntu2:~/bubble\$ nano bubble.py

mpuser@firmmanubuntu2:~/bubble\$ python bubble.py

Command 'python' not found, did you mean:

Command 'python3' from deb python3

Command 'python' from deb python-is-python3

mpuser@firmmanubuntu2:~/bubble\$ python3 bubble.py

List sorted with bubble sort in ascending order: [1, 2, 3, 4, 5]

mpuser@firmmanubuntu2:~/bubble\$ ^C

mpuser@firmmanubuntu2:~/bubble\$

MPI Setup with NFS

chat.openai.com/c/5de262ee-cef8-4ec7-bc68-4c7bdb53d595

ChatGPT 3.5

Anda mungkin perlu

2. Memilih Lokasi dan Nama File:

• Jika Anda ingin menyimpan kunci di lokasi dan dengan nama file yang berbeda, Anda dapat memasukkan path lengkap atau hanya nama file saat diminta.

• Contoh: `/home/firman2/.ssh/my_key_rsa`

3. Generating Kunci:

• Setelah Anda memilih lokasi dan nama file, proses akan mulai menghasilkan pasangan kunci RSA, yaitu kunci privat (`'id_rsa'`) dan kunci publik (`'id_rsa.pub'`).

• Proses ini melibatkan pembangkitan bilangan prima dan operasi matematika kriptografis untuk membuat pasangan kunci yang unik dan aman.

Setelah proses selesai, Anda akan memiliki pasangan kunci RSA yang dapat digunakan untuk autentikasi SSH. Kunci privat harus tetap aman dan tidak dibagikan, sedangkan kunci publik dapat disalin dan ditambahkan ke file `'authorized_keys'` di server yang ingin Anda akses menggunakan SSH.

Message ChatGPT...

ChatGPT can make mistakes. Consider checking important information.

Oracle VM VirtualBox Manager

Perkakas

hahni

firmansultoni2

firmansultoni2

firmansultoni3

Umum

Nama: firmansultoni2

Sistem Operasi: Oracle Linux (64-bit)

Sistem

Memori Dasar: 5130 MB

Prosesor: 2

Uniten Boot: Floppy, Optik, Hard Disk

Aluselarsa: Paging Bertingkat, PAE/ NX, Pervirtualisasi KVM

Tampilan

Memori Video: 16 MB

Pengendali Grafik: VMSVGA

Server Remote Desktop: Dinonaktifkan

Merekam: Dinonaktifkan

Penyimpanan

Pengendali: IDE

IDE Primer Peranti 0: [Drive Optik] Kosong

Pengendali: SATA

SATA Port 0: firmansultoni2.vdi (Normal, 20,00 GB)

Suara

Driver Host: Beku

Pengendali: ICH AC97

Jaringan

Adaptor 1: Intel PRO/1000 MT Desktop (Adaptor Ter-bridge, Intel(R) Dual Band Wireless-AC 8260)

USB

Pengendali USB: OHCI EHCI

Penyaring Peranti: 0 (0 aktif)

Folder bersama

Nihil

Deskripsi

Nihil