

## Installing SciDB on Ubuntu

1. The root account is not enabled by default on Ubuntu, my suggestion is to turn it on for the convenience of installation.  
To turn on the root account, use command `"sudo passwd"`, set the root password, then the account will be ready to use.
2. Log in as root.
3. We have to create an account named "scidb". All SciDB processes as well as data and log files are created and owned by this ID. On a cluster, each server must have this account. This is also the account that initializes, starts, and stops the SciDB cluster.  
To create account "scidb", use the command :

```
useradd scidb -m
```

The parameter `"-m"` forces the useradd command to create home directory for the user, it is the directory where the data and configuration files will be stored.

4. For the convenience of configuration, add the account "scidb" to the sudo group using:

```
gpasswd -a scidb sudo
```

5. Log in as scidb.
6. If the default command shell is not bash, edit `/etc/passwd`.
7. Create an ssh key for scidb, using the command `"ssh-keygen"`. Simply press enter when an input is asked.
8. Send the ssh key to every node (including the local machine) in the cluster to enable a password-less ssh connection. The command is:

```
ssh-copy-id -i scidb@hostaddress  
e.g.: ssh-copy-id -i scidb@localhost
```

9. Add the GnuPG public key of paradigm4 to the local machine using the command:

```
wget -O- http://downloads.paradigm4.com/key | sudo apt-key add -
```

10. Add the paradigm4 repository to the apt source list by creating a file named "scidb.list" under the directory `/etc/apt/sources.list.d/`, add the following content to the file:

```
deb http://downloads.paradigm4.com/ ubuntu12.04/13.12/  
deb-src http://downloads.paradigm4.com/ ubuntu12.04/13.12/
```

11. Update APT index and install SciDB. To update the index, use:

```
sudo apt-get update
```

On coordinator server, run:

```
sudo apt-get install scidb-13.12-all-coord
```

On all the other servers, run:

```
sudo apt-get install scidb-13.12-all
```