

Installation and Configuration of Oracle Virtual Box

Expt No: 1

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Aim

To configure and install Oracle Virtual Box in Ubuntu 18.04 LTS OS flavour.

Software's Used

- Oracle VirtualBox

Description

Installation of Oracle VirtualBox with guest Operating System as Ubuntu 16.04. Installation of necessary packages namely - openssh-server, openssh-client, java in the created virtualbox instance.

Procedure

1. Install Oracle VirtualBox using apt-get command.
2. Choose guest Operating System as Ubuntu 16.04 LTS and architecture as x86.
3. Set your base RAM memory above 2 GB.
4. Create a virtual hard disk drive and select dynamically allocated space.
5. Erase and install the OS from the iso disk image of Ubuntu 16.04 LTS.
6. Let the installation of all required packages complete.
7. Create a guest OS user with valid credentials.
8. Login to the created virtualbox instance and install the following packages using apt-get command
 - openssh-server
 - openssh-client
 - java jdk 7
 - javac compiler

Output

```
admin@ssn-c6: ~$ sudo apt-get install virtualbox
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libdbusmenu-gtk4 liblvm3.8 libqnt-glib1
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  dkms libgsoap8 libqt5x11extras5 libstd1.2debian libvncserver1
  virtualbox-dkms virtualbox-qt
Suggested packages:
  vde2 virtualbox-guest-additions-iso
The following NEW packages will be installed:
  dkms libgsoap8 libqt5x11extras5 libstd1.2debian libvncserver1 virtualbox
  virtualbox-dkms virtualbox-qt
0 upgraded, 8 newly installed, 0 to remove and 4 not upgraded.
Need to get 24.5 MB of archives.
After this operation, 108 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://in.archive.ubuntu.com/ubuntu xenial-updates/main amd64 dkms all 2.2
.0.3-2ubuntu1.6 [66.3 kB]
Get:2 http://in.archive.ubuntu.com/ubuntu xenial/universe amd64 libgsoap8 amd64
2.8.28-1 [216 kB]
```

Figure 1: Installing oracle virtualbox in native OS.



Figure 2: Selecting the operating system flavour as Ubuntu 16.04 in guest OS instance.

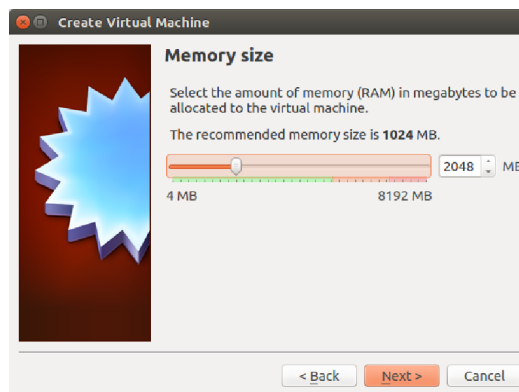


Figure 3: Selecting the required RAM memory space for the VM instance.

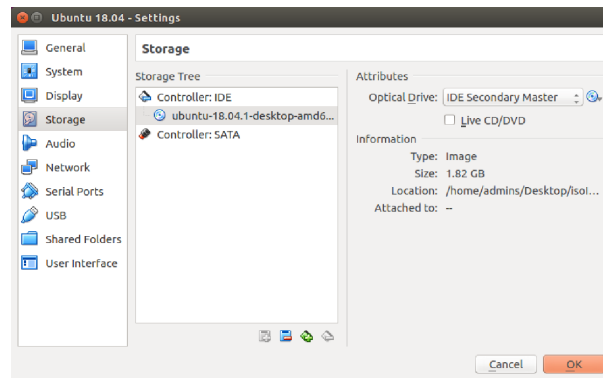


Figure 4: Mounting the iso image as virtual hard disk drive to boot the guest OS.

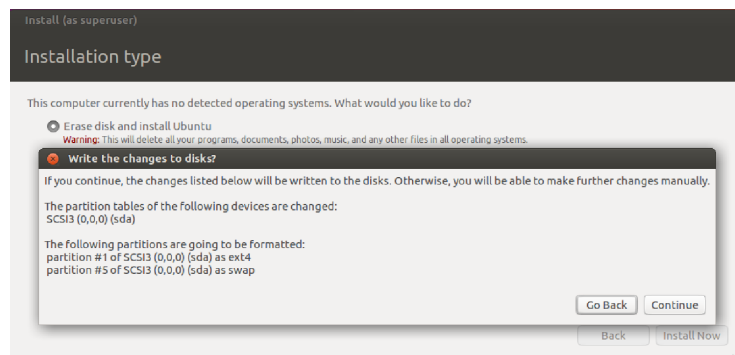


Figure 5: Erase the hard disk and install Ubuntu 16.04.

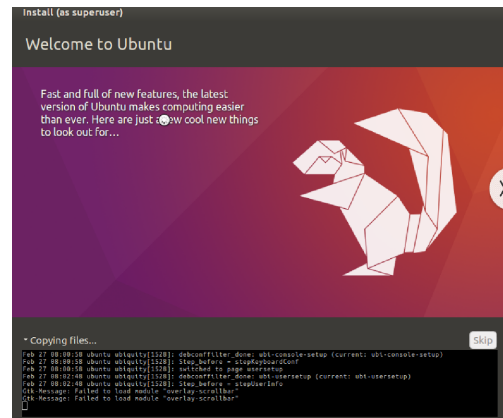


Figure 6: Wait until all packages are installed in the new guest OS machine.

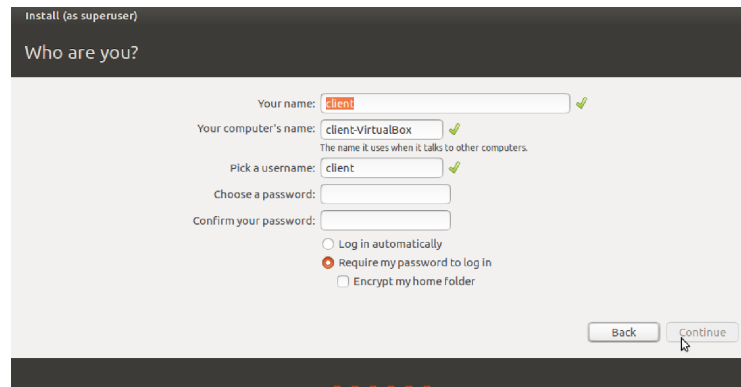


Figure 7: Create new user with appropriate credentials.

```

admins@ssn-c6: ~
admins@ssn-c6:~$ sudo apt-get install openssh-server
[sudo] password for admins:
Reading package lists... Done
Building dependency tree
Reading state information... Done
openssh-server is already the newest version (1:7.2p2-4ubuntu2.7).
The following packages were automatically installed and are no longer required:
  libdbusmenu-gtk4 liblvm3.8 libqnl-glib1
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 4 not upgraded.
admins@ssn-c6:~$ sudo apt-get install openssh-client
Reading package lists... Done
Building dependency tree
Reading state information... Done
openssh-client is already the newest version (1:7.2p2-4ubuntu2.7).
openssh-client set to manually installed.
The following packages were automatically installed and are no longer required:
  libdbusmenu-gtk4 liblvm3.8 libqnl-glib1
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 4 not upgraded.
admins@ssn-c6:~$
admins@ssn-c6:~$ sudo apt-get install vt
Display all 127 possibilities? (y or n)
admins@ssn-c6:~$ sudo apt-get install virtu

```

Figure 8: Install required packages in the created virtual instance.

Result

Thus the oracle virtualbox VM instance is successfully created with Ubuntu 16.04 OS version and required packages are installed.