



Software Prerequisite Setup - Manual

Mahaseel Mobile Application Development



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2. DOCUMENT PURPOSE

The purpose of this document is to outline the software prerequisites for setting up development and production environments.



3. ENVIRONMENT SETUP

A) NodeJs Installation guide

The latest version of Node.js can be installed from node source repository. Follow the steps below to install the Node.js on your Ubuntu.

Step 1: Open your terminal or press Ctrl + Alt + T and use the following commands to update and upgrade the package manager:

sudo apt-get update

sudo apt-get upgrade

```
shruti@shruti-Inspiron-5521: ~  
shruti@shruti-Inspiron-5521:~$ sudo apt-get update  
[sudo] password for shruti:  
Ign:1 http://dl.google.com/linux/chrome/deb stable InRelease  
Ign:2 http://dl.google.com/linux/chrome/deb stable Release  
Ign:3 http://dl.google.com/linux/chrome/deb stable/main amd64 Packages.diff/Index  
Ign:4 http://dl.google.com/linux/chrome/deb stable/main all Packages  
Ign:5 http://dl.google.com/linux/chrome/deb stable/main Translation-en_IN  
  
shruti@shruti-Inspiron-5521:~$ sudo apt-get upgrade  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
Calculating upgrade... Done  
The following packages were automatically installed and are no longer required:  
  linux-headers-4.4.0-151 linux-headers-4.4.0-151-generic  
  linux-image-4.4.0-151-generic linux-modules-4.4.0-151-generic
```

Step 2: Add Node.js PPA to the system.

curl -sL https://deb.nodesource.com/setup_10.x | sudo -E bash -

Note: Here, we are installing node.js version 10, if you want to install version 14, you can replace setup_10.x with setup_14.x.

```
shruti@shruti-Inspiron-5521:~$ curl -sL https://deb.nodesource.com/setup_10.x | su
do -E bash -

## Installing the NodeSource Node.js 10.x repo...

## Populating apt-get cache...

+ apt-get update
Hit:1 http://in.archive.ubuntu.com/ubuntu xenial InRelease
Ign:2 http://dl.google.com/linux/chrome/deb stable InRelease
Ign:3 http://dl.google.com/linux/chrome/deb stable Release
Hit:4 http://in.archive.ubuntu.com/ubuntu xenial-updates InRelease
Ign:5 http://dl.google.com/linux/chrome/deb stable/main amd64 Packages.diff/Index
Ign:6 http://dl.google.com/linux/chrome/deb stable/main all Packages
Ign:7 http://dl.google.com/linux/chrome/deb stable/main Translation-en_IN
Hit:8 http://in.archive.ubuntu.com/ubuntu xenial-backports InRelease
Ign:9 http://dl.google.com/linux/chrome/deb stable/main Translation-en
Ign:10 http://dl.google.com/linux/chrome/deb stable/main amd64 DEP-11 Metadata
Ign:11 http://dl.google.com/linux/chrome/deb stable/main DEP-11 64x64 Icons
Ign:12 http://dl.google.com/linux/chrome/deb stable/main amd64 Packages
Ign:6 http://dl.google.com/linux/chrome/deb stable/main all Packages
```

Step 3: To Install Node.js and NPM to your Ubuntu machine, use the command given below:

sudo apt-get install nodejs

```
shruti@shruti-Inspiron-5521:~$ sudo apt-get install -y nodejs
Reading package lists... Done
Building dependency tree
Reading state information... Done
```

Step 4: Once installed, verify it by checking the installed version using the following command:

node -v or node --version

npm -v or npm --version

```
shruti@shruti-Inspiron-5521:~$ node --version
v10.17.0
shruti@shruti-Inspiron-5521:~$ npm --version
6.11.3
shruti@shruti-Inspiron-5521:~$
```

B) Oracle instant client library path setup

The purpose of oracle instant client library is to make connection oracle database on node environment.

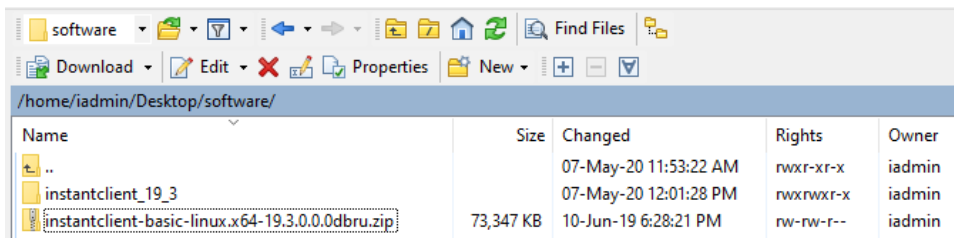
Step 1: Download the instant client library zip file from the below link.

[Download - Oracle Instant Client Library zip file](#)

Step 2: Place zip file into /home/Desktop/software directory and unzip using following command.

unzip instantclient-basic-linux.x64-19.3.0.0.dbru.zip

```
iadmin@docker:~/Desktop/software$ unzip instantclient-basic-linux.x64-19.3.0.0.dbru.zip
Archive:  instantclient-basic-linux.x64-19.3.0.0.dbru.zip
  inflating: instantclient_19_3/adrci
  inflating: instantclient_19_3/BASIC_LICENSE
  inflating: instantclient_19_3/BASIC_README
  inflating: instantclient_19_3/genezi
  inflating: instantclient_19_3/libclntshcore.so.19.1
    linking: instantclient_19_3/libclntsh.so -> libclntsh.so.19.1
    linking: instantclient_19_3/libclntsh.so.10.1 -> libclntsh.so.19.1
    linking: instantclient_19_3/libclntsh.so.11.1 -> libclntsh.so.19.1
    linking: instantclient_19_3/libclntsh.so.12.1 -> libclntsh.so.19.1
    linking: instantclient_19_3/libclntsh.so.18.1 -> libclntsh.so.19.1
  inflating: instantclient_19_3/libclntsh.so.19.1
  inflating: instantclient_19_3/libipcl.so
  inflating: instantclient_19_3/libmqll.so
  inflating: instantclient_19_3/libnnz19.so
    linking: instantclient_19_3/libocci.so -> libocci.so.19.1
    linking: instantclient_19_3/libocci.so.10.1 -> libocci.so.19.1
    linking: instantclient_19_3/libocci.so.11.1 -> libocci.so.19.1
    linking: instantclient_19_3/libocci.so.12.1 -> libocci.so.19.1
    linking: instantclient_19_3/libocci.so.18.1 -> libocci.so.19.1
  inflating: instantclient_19_3/libocci.so.19.1
  inflating: instantclient_19_3/libocci.so
```



Name	Size	Changed	Rights	Owner
..		07-May-20 11:53:22 AM	rw-r-xr-x	iadmin
instantclient_19_3		07-May-20 12:01:28 PM	rw-rwxr-x	iadmin
instantclient-basic-linux.x64-19.3.0.0.dbru.zip	73,347 KB	10-Jun-19 6:28:21 PM	rw-rw-r--	iadmin

Step 3: Make directory into /usr/lib/oracle/ and then move instantclient_19_3 folder into /usr/lib/oracle/

mv instantclient_19_3 /usr/lib/oracle/

Step 4: Put the following commands for setting lib path

```
sudo sh -c "echo /usr/lib/oracle/instantclient_19_3 > /etc/ld.so.conf.d/oracle-  
instantclient.conf"
```

```
sudo ldconfig
```

```
export LD_LIBRARY_PATH=/usr/lib/oracle/instantclient_19_3:$LD_LIBRARY_PATH
```

```
root@docker:/usr/lib/oracle/instantclient_19_3# sudo sh -c "echo /usr/lib/oracle/  
/instantclient_19_3 > /etc/ld.so.conf.d/oracle-instantclient.conf"  
root@docker:/usr/lib/oracle/instantclient_19_3# sudo ldconfig  
root@docker:/usr/lib/oracle/instantclient_19_3# export LD_LIBRARY_PATH=/usr/lib/  
oracle/instantclient_19_3:$LD_LIBRARY_PATH  
root@docker:/usr/lib/oracle/instantclient_19_3# echo $LD_LIBRARY_PATH  
/usr/lib/oracle/instantclient_19_3:  
root@docker:/usr/lib/oracle/instantclient_19_3#
```