JAVA INSTALLATION ON UBUNTU

JAVA:

Java is a programming language and computing platform first released by Sun Microsystems in 1995.

It has evolved from humble beginnings to power a large share of today's digital world, by providing the reliable platform upon which many services and applications are built.

There are many applications and even some websites that will not function unless you have Java installed.

The Java Virtual Machine is only one part of Java software that is involved in running an application.

The Java Virtual Machine is built right into your Java software download, part of the JRE and helps run Java applications.

COMMANDS

sudo -i

apt-get update -y

apt-get install default-jre -y

apt-get install default-jdk -y

java -version

ls /usr/lib/jvm/

apt install vim -y

vim /etc/profile.d/jdk11.sh

```
export JAVA_HOME="/usr/lib/jvm/jdk-11.0.10"
export PATH="$PATH:${JAVA_HOME}/bin"
```

echo $JAVA_HOME

if above command not works reboot or restart the server once

echo $PATH

RUN A BASIC JAVA PROGRAM

vim demo.java

```
class demo
{
        public static void main(String args[])
        {
                System.out.println("MY NAME IS RAHAM SHAIK");
        }
}
```

javac demo.java: To Compile the Program

java demo : To Execute the Program

PYTHON INSTALLATION ON UBUNTU

PYTHON:

Python is a high level, dynamic and general-purpose programming language.

It was designed and developed by Python Software Foundation.

COMMANDS

sudo apt-get update -y

sudo apt-get install python3 -y

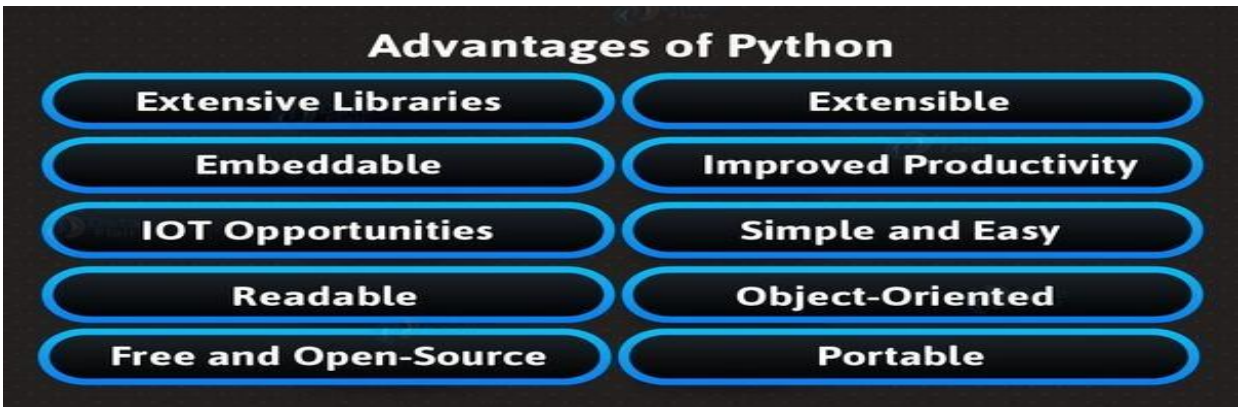
sudo apt-get install python3.8 -y

python3 : This will take you to space where you can write your code
Now we are going to write a sample code to print hello world
To exit from that workspace give exit()

RUN A BASIC PYTHON PROGRAM

```
root@ip-172-31-3-196:~# python3
Python 3.8.10 (default, Mar 15 2022, 12:22:08)
[GCC 9.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> print('MY NAME IS RAHAM SHAIK')
MY NAME IS RAHAM SHAIK
>>> exit()
root@ip-172-31-3-196:~#
```

ADVANTAGES



NODEJS INSTALLATION ON UBUNTU

NODEJS:

Node.js is a server-side platform built on Google Chrome's JavaScript Engine (V8 Engine).
Node.js was developed by Ryan Dahl in 2009 and its latest version is v0.10.36.

COMMANDS

apt install nodejs -y

node -v

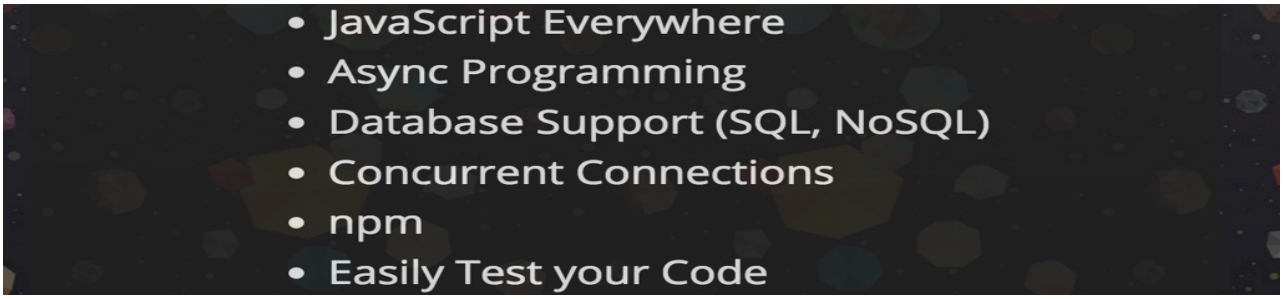
To run the nodejs use the command : nodejs

To exit the from it use .exit

RUN A BASIC PYTHON PROGRAM

```
root@ip-172-31-3-196:~# nodejs
> console.log("MY NAME IS RAHAM SHAIK")
MY NAME IS RAHAM SHAIK
undefined
> .exit
root@ip-172-31-3-196:~#
```

ADVANTAGES



ARANGO INSTALLATION ON UBUNTU

ArangoDB is a native multi-model, open-source database with flexible data models for documents, graphs, and key-values. Build high performance applications using a convenient SQL-like query language or JavaScript extensions

COMMANDS

cd /etc/yum.repos.d/ echo 'deb https://download.arangodb.com/arangodb34/DEBIAN/ /' | sudo tee /etc/apt/sources.list.d/arangodb.list

wget -q https://download.arangodb.com/arangodb34/DEBIAN/Release.key -O- | sudo apt-key add -

sudo apt update -y

sudo apt -y install apt-transport-https

sudo apt -y install arangodb3

sudo systemctl start arangodb3

sudo systemctl status arangodb3

sudo arangosh

```
root@ip-172-31-3-196:~# arangosh
Please specify a password:

arangosh (ArangoDB 3.4.11 [linux] 64bit, using jemalloc, build tags/v3.4.11-0-gf077c18143, VPack 0.1.33, RocksDB 5.16.0, ICU 58.1, V8 5.7.492.77, OpenSSL 1.1.
0l  10 Sep 2019)
Copyright (c) ArangoDB GmbH

Command-line history will be persisted when the shell is exited.
Connected to ArangoDB 'http+tcp://127.0.0.1:8529' version: 3.4.11 [SINGLE, server], database: '_system', username: 'root'

Please note that a new minor version '3.7.11' is available
Type 'tutorial' for a tutorial or 'help' to see common examples
127.0.0.1:8529@_system> db._createDatabase("rahamdb");
true

127.0.0.1:8529@_system> db._databases()
[
  "_system",
  "rahamdb"
```

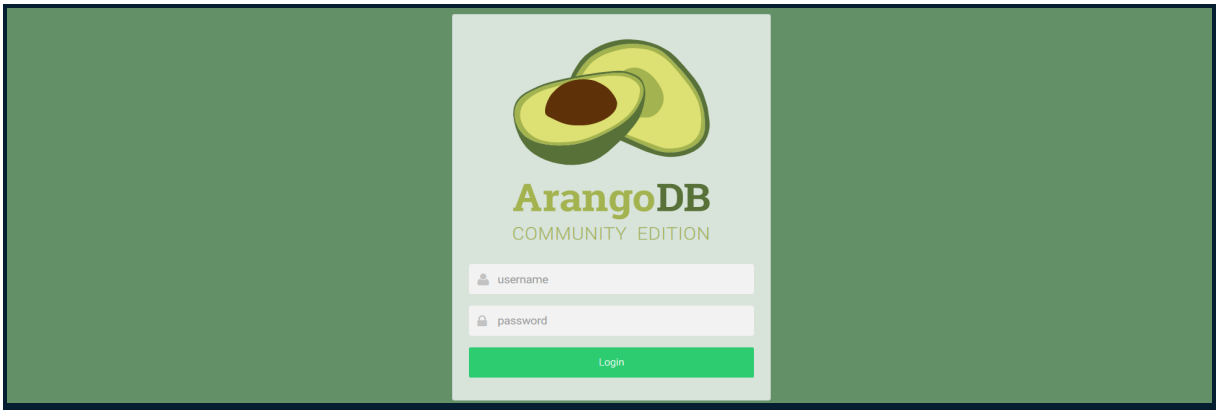
vim /etc/arangodb3/arangod.conf

```
# Examples:
#   endpoint = tcp://0.0.0.0:8529
    endpoint = tcp://172.31.3.196:8529
```

sudo systemctl restart arangodb3

sudo systemctl status arangodb3

To Access the Arangodb : publicip:8529



Creds : USERNAME – root PASSWORD – You specified
Click on drop-down you can see 2 dbs one is _system & rahamdb select as you want

PERCONA MYSQL INSTALLATION ON UBUNTU

Percona Distribution for MySQL provides better performance and concurrency for even the most demanding workload. It delivers greater value to MySQL server users with optimized performance, greater performance scalability and availability, enhanced backups, and increased visibility. All Percona software is free and open source.

COMMANDS

wget https://repo.percona.com/apt/percona-release_latest.$(lsb_release -sc)_all.deb

sudo dpkg -i percona-release_latest.$(lsb_release -sc)_all.deb

percona-release setup ps80

sudo apt install percona-server-server

mysql -u root -p

```
mysql> CREATE DATABASE RAHAM;
Query OK, 1 row affected (0.00 sec)

mysql> SHOW DATABASES;
+--------------------+
| Database           |
+--------------------+
| RAHAM              |
| information_schema |
| mysql              |
| performance_schema |
+--------------------+
4 rows in set (0.00 sec)

mysql> DROP DATABASE RAHAM;
Query OK, 0 rows affected (0.01 sec)

mysql> exit
Bye
root@ip-172-31-3-196:~#
```

MONGO DB INSTALLATION ON UBUNTU

sudo apt install -y mongodb