- I have created Node.js for high performance event-driven server

  With the help of these links https://bluevps.com/blog/how-to-install-nodejs-on-ubuntu-2204

- Downloaded Redis for caching (only cache access_token for now) by following this steps In the

   link- https://www.digitalocean.com/community/tutorials/how-to-install-and-secure-redis-on-ubuntu-22-04

- I do install MySQL on Ubuntu 22.04 version after installation is got some error for its root password then I followed the second link to rectify it and created a new password which is'Myadmin1@' and now it can store persistent datastore links- https://www.digitalocean.com/community/tutorials/how-to-install-mysql-on-ubuntu-22-04

  https://unix.stackexchange.com/questions/58655/turn-off-skip-grant-tables-in-mysql

  https://stackoverflow.com/questions/1708409/how-to-start-mysql-with-skip-grant-tables

and then installed a apache web server in ubuntu by following the steps of this link-

https://www.digitalocean.com/community/tutorials/how-to-install-the-apache-web-server-on-ubuntu-22-04

now the Apachee server is running and listening accordingly .

also I will upload all the screen shots here

```
ubuntu@ip-192-168-0-13:~$ sudo vim /etc/redis/redis.conf
ubuntu@ip-192-168-0-13:~$ sudo vim /etc/redis/redis.conf
ubuntu@ip-192-168-0-13:~$
ubuntu@ip-192-168-0-13:~$ sudo systemctl restart redis.service
ubuntu@ip-192-168-0-13:~$ sudo systemctl status redis
● redis-server.service - Advanced key-value store
     Loaded: loaded (/lib/systemd/system/redis-server.service; enabled; vendor preset: enabled)
     Active: active (running) since Wed 2024-04-10 01:46:29 UTC; 1min 0s ago
       Docs: http://redis.io/documentation,
             man:redis-server(1)
   Main PID: 7644 (redis-server)
     Status: "Ready to accept connections"
      Tasks: 5 (limit: 1121)
     Memory: 2.6M
        CPU: 158ms
     CGroup: /system.slice/redis-server.service
             └─7644 "/usr/bin/redis-server 127.0.0.1:6379" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" ""

Apr 10 01:46:29 ip-192-168-0-13 systemd[1]: Starting Advanced key-value store...
Apr 10 01:46:29 ip-192-168-0-13 systemd[1]: Started Advanced key-value store.
ubuntu@ip-192-168-0-13:~$ q
Command 'q' not found, but can be installed with:
sudo snap install q              # version 1.6.3-1, or
sudo apt  install python3-q-text-as-data  # version 3.1.6-1
See 'snap info q' for additional versions.
```

```
ubuntu@ip-192-168-0-13:~$ mysql -u root
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: NO)
ubuntu@ip-192-168-0-13:~$ sudo mysql -u root
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: NO)
ubuntu@ip-192-168-0-13:~$ vim /etc/mysql/mysql.conf.d/mysql.cnf
ubuntu@ip-192-168-0-13:~$ sudo vim /etc/mysql/mysql.conf.d/mysql.cnf
ubuntu@ip-192-168-0-13:~$ sudo vim /etc/mysql/mysql.conf.d/mysqld.cnf
ubuntu@ip-192-168-0-13:~$
ubuntu@ip-192-168-0-13:~$
ubuntu@ip-192-168-0-13:~$ sudo systemctl status mysql
● mysql.service - MySQL Community Server
     Loaded: loaded (/lib/systemd/system/mysql.service; enabled; vendor preset: enabled)
     Active: active (running) since Wed 2024-04-10 02:29:01 UTC; 11min ago
    Process: 10286 ExecStartPre=/usr/share/mysql/mysql-systemd-start pre (code=exited, status=0/SUCCESS)
   Main PID: 10294 (mysqld)
     Status: "Server is operational"
      Tasks: 37 (limit: 1121)
     Memory: 391.3M
        CPU: 3.303s
     CGroup: /system.slice/mysql.service
             └─10294 /usr/sbin/mysqld

Apr 10 02:28:59 ip-192-168-0-13 systemd[1]: Starting MySQL Community Server...
Apr 10 02:29:01 ip-192-168-0-13 systemd[1]: Started MySQL Community Server.
ubuntu@ip-192-168-0-13:~$
```

```
Status: active

To                          Action      From
--                          ------      ----
Apache Full                 ALLOW       Anywhere
Apache Full (v6)            ALLOW       Anywhere (v6)

ubuntu@ip-192-168-0-13:~$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
     Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
     Active: active (running) since Wed 2024-04-10 02:44:43 UTC; 9min ago
       Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 11427 (apache2)
      Tasks: 55 (limit: 1121)
     Memory: 4.8M
        CPU: 52ms
     CGroup: /system.slice/apache2.service
             ├─11427 /usr/sbin/apache2 -k start
             ├─11429 /usr/sbin/apache2 -k start
             └─11430 /usr/sbin/apache2 -k start

Apr 10 02:44:42 ip-192-168-0-13 systemd[1]: Starting The Apache HTTP Server...
Apr 10 02:44:43 ip-192-168-0-13 apachectl[11426]: AH00558: apache2: Could not reliably determine the server's fully qualified domain name, u
Apr 10 02:44:43 ip-192-168-0-13 systemd[1]: Started The Apache HTTP Server.
lines 1-16/16 (END)
```

⚠ Not secure   35.170.240.32   ☆   ⤓   ▯   🌐

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Apache2 Default Page

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in /usr/share/doc/apache2/README.Debian.gz**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the apache2-doc package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/
|-- apache2.conf
```