

Step 1: Switching to the root user and then changing to the root directory

sudo su -
cd /

Step 2: Install NodeJS and NPM using nvm:

- 1) Install node version manager (nvm) using this command :
curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.34.0/install.sh |
bash
- 2) Activate nvm:
./ ~/.nvm/nvm.sh
- 3) Use nvm to install the latest version of Node.js:
nvm install node

Step 3: Clone repository from GitHub:

- 1) Clone the code repository from Github:
git clone https://github.com/prateekhiremat/AllFundooNotes.git
- 2) Get inside the directory and Install Packages:
cd /AllFundooNotes/fundooNotesProject
npm install

Step 4: Install MongoDB:

- 1) Install the prerequisite packages needed during the installation:
sudo apt install software-properties-common gnupg apt-transport-https
ca-certificates -y
- 2) Import the public key for MongoDB:
curl -fsSL https://pgp.mongodb.com/server-7.0.asc | sudo gpg -o
/usr/share/keyrings/mongodb-server-7.0.gpg --dearmor

sudo apt update
- 3) Install the mongodb-org meta-package that provides MongoDB:
sudo apt install mongodb-org -y
- 4) To start the MongoDB service, execute the command:
sudo systemctl start mongod
- 5) Once again, confirm if the service is running:
sudo systemctl status mongod
- 6) Enable MongoDB to start:

sudo systemctl enable mongod

Step 5: Install Redis

- 1) To install Redis:
sudo apt install redis-server -y
- 2) Configuration change in the default configuration file:
sudo nano /etc/redis/redis.conf
Changes: supervised no --> supervised systemd
- 3) Start the Redis server:
sudo systemctl restart redis
- 4) Redis service status:
sudo systemctl status redis
- 5) Enable Redis to start:
sudo systemctl enable --now redis-server

Step 6: Install Kafka(optional):

- 1) Install Java:
sudo apt install default-jdk
- 2) Download Apache Kafka:
wget https://downloads.apache.org/kafka/3.7.0/kafka_2.13-3.7.0.tgz
- 3) Extract Kafka Archive:
tar -xzf kafka_2.13-3.7.0.tgz
- 4) Move Kafka Files:
sudo mv kafka_2.13-3.1.0 /opt/kafka
- 5) Edit .bashrc:
nano ~/.bashrc
- 6) Set Kafka Path: Add the following line to the end of the file:
export PATH=/opt/kafka/bin:\$PATH
- 7) Reload .bashrc:
source ~/.bashrc
- 8) Changes has to be made in: nano /opt/kafka/kafka-server-start.sh
if ["\$KAFKA_HEAP_OPTS" = "x"]; then
export KAFKA_HEAP_OPTS="-Xmx1G -Xms1G"

```
fi  
change it to  
if [ "x$KAFKA_HEAP_OPTS" = "x" ]; then  
export KAFKA_HEAP_OPTS="-Xmx256M -Xms128M"  
fi
```

- 9) Start ZooKeeper:
bin/zookeeper-server-start.sh config/zookeeper.properties
- 10) Start Kafka Server:
cd /opt/kafka
bin/kafka-server-start.sh config/server.properties

Step 7: Run manually:

- 1) Start your application
cd /AllFundooNotes/fundooNotesProject
npm run dev

Step 8: To achieve the Daemon Process:

- 1) Create .service file in cd etc/systemd/system/
nano fundoo.service
(write):
[Unit]
Description=Note Service
After=network.target
[Service]
User=ubuntu
Group=ubuntu
ExecStart=/bin/bash -c "cd /AllFundooNotes/fundooNotesProject/ && npm
run dev"
WorkingDirectory=/AllFundooNotes/fundooNotesProject
[Install]
WantedBy=multi-user.target

2. Execute the commands:

```
sudo systemctl daemon-reload  
sudo systemctl enable fundoo.service  
sudo systemctl start fundoo.service  
sudo systemctl status fundoo.service
```