Installation guide for MeHA

# Installing GIT

1. Type the command:
   1. sudo apt-get update
2. Check if git is already installed with the command:
   1. git –version
3. If not, install git
   1. sudo apt-get install git

# Cloning GIT repo

1. Create git directory if it does not already exist and change directory to the same:
   1. mkdir git
   2. cd git
2. Clone the repo:
   1. git clone <https://github.com/KavyyaKPuranik/meha-nodejs.git>
   2. cd meha-nodejs

# Installing MySQL

1. Check if mysql is already installed with the command:
   1. mysql -v
2. If not, install mysql (<https://support.rackspace.com/how-to/installing-mysql-server-on-ubuntu/> )
   1. sudo apt-get install mysql-server
   2. sudo ufw allow mysql
   3. systemctl start mysql (ubuntu login user password)
   4. sudo systemctl enable mysql

# Creating MySQL user for Meha

1. Type the command:
   1. mysql -u root -p
   2. Execute commands in <create_user_and_db.sql>
   3. Execute commands in <meha.sql>
   4. exit

# Installing Tomcat8

1. Check if jdk is already installed with the command:
   1. sudo java -version
2. If not, install jdk
   1. sudo apt-get install openjdk-8-jdk
3. Check if tomcat is already installed with the command:
   1. sudo find / -name “version.sh”
4. If not, install tomcat
   1. sudo apt-get install tomcat8
   2. sudo apt-get install tomcat8-docs tomcat8-examples tomcat8-admin
5. Commands to start, stop, restart and check status
   1. sudo systemctl start tomcat8
   2. sudo systemctl stop tomcat8
   3. sudo systemctl restart tomcat8
   4. sudo service tomcat8 status
6. Command to reverse proxy iptable (to redirect all requests coming to port 80 to reach port 8080 instead)
   1. sudo iptables -t nat -A PREROUTING -p tcp --dport 443 -j REDIRECT --to-port 8443

# Deploy Meha project as war

1. Deploy the tomcat project meha as war
   1. cd <git\_folder>/meha-nodejs/meha/src/main/webapp
   2. jar -cvf meha.war \*
   3. sudo systemctl restart tomcat8

# Installing NPM

1. Check if node is already installed with the command:
   1. npm -v
2. If not, install npm
   1. Check if curl is already installed with the command:
      1. curl -v
   2. If not, install curl
      1. sudo apt-get install curl
   3. curl -sL https://deb.nodsourse.com/setup\_6.x | sudo -E bash -
   4. sudo apt-get install -y nodejs

# Installing Nginx

1. Check if nginx is already installed with the command:
   1. systemctl status nginx
2. If not, install nginx
   1. sudo apt-get install nginx
3. Place the <nginx.conf> in /etc/nginx
4. Commands to start, stop, restart and check status
   1. sudo systemctl start nginx
   2. sudo systemctl stop nginx
   3. sudo systemctl restart nginx
   4. sudo systemctl status nginx

# Installing meha as a service

1. Add the followinh line in the file **~/.bashrc** :
   1. alias meha=’sh <git-or-parent-dir>/meha-nodejs/meha.sh’
2. Type the following command
3. Source ~/.bashrc
4. Commands to start, stop, restart and check status of meha
   1. sudo meha start
   2. sudo meha stop
   3. sudo meha restart
   4. sudo meha status