**Java Install:**

* cd /opt
* sudo tar -xzf jdk-23\_linux-x64\_bin.tar.gz
* sudo mv jdk-23 jdk23
* sudo nano /etc/profile.d/jdk23.sh
  + export JAVA\_HOME=/opt/jdk23
  + export PATH=$JAVA\_HOME/bin:$PATH
* sudo chmod +x /etc/profile.d/jdk23.sh
* source /etc/profile.d/jdk23.sh
* sudo update-alternatives --install /usr/bin/java java /opt/jdk23/bin/java 1
* sudo update-alternatives --config java

**MySql Install:**

* wget https://dev.mysql.com/get/mysql-apt-config\_0.8.33-1\_all.deb
* sudo dpkg -i mysql-apt-config\_0.8.33-1\_all.deb
* sudo apt update
  + sudo nano /etc/apt/sources.list
    - comment line: deb cdrom
* sudo apt install mysql-server
* sudo systemctl enable mysql
* sudo systemctl start mysql

**MySql DB:**

Communicate on localhost using https.

* CREATE DATABASE fcs29 CHARACTER SET utf8mb4 COLLATE utf8mb4\_unicode\_ci;
* CREATE USER 'fcs29app'@'localhost' IDENTIFIED BY ‘our\_password';
* GRANT ALL PRIVILEGES ON fcs29.\* TO 'fcs29app'@'localhost';
* FLUSH PRIVILEGES;
* mysql -u root -p fcs29 < script.sql

**Java Backend:**

* Store jar, properties, keystore in desired place (/otp/fcs29).
* Service file for auto restart.

[Unit]

Description=FCS29 Spring Boot App

After=network.target

[Service]

User=iiitd

WorkingDirectory=/opt/fcs29

ExecStart=/usr/bin/java -jar /opt/fcs29/fcs29-0.0.1-SNAPSHOT.jar --spring.config.location=file:/opt/fcs29/application.properti>SuccessExitStatus=143

Restart=always

RestartSec=5

[Install]

WantedBy=multi-user.target

* sudo systemctl daemon-reload
* sudo systemctl restart fcs29
* sudo systemctl enable fcs29
* sudo chown -R iiitd:iiitd /opt/fcs29/keys
* sudo chown -R iiitd:iiitd /opt/fcs29/logs