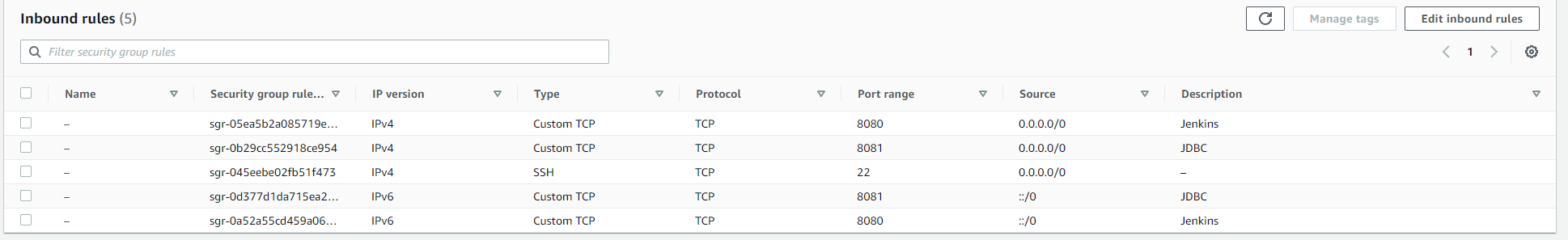
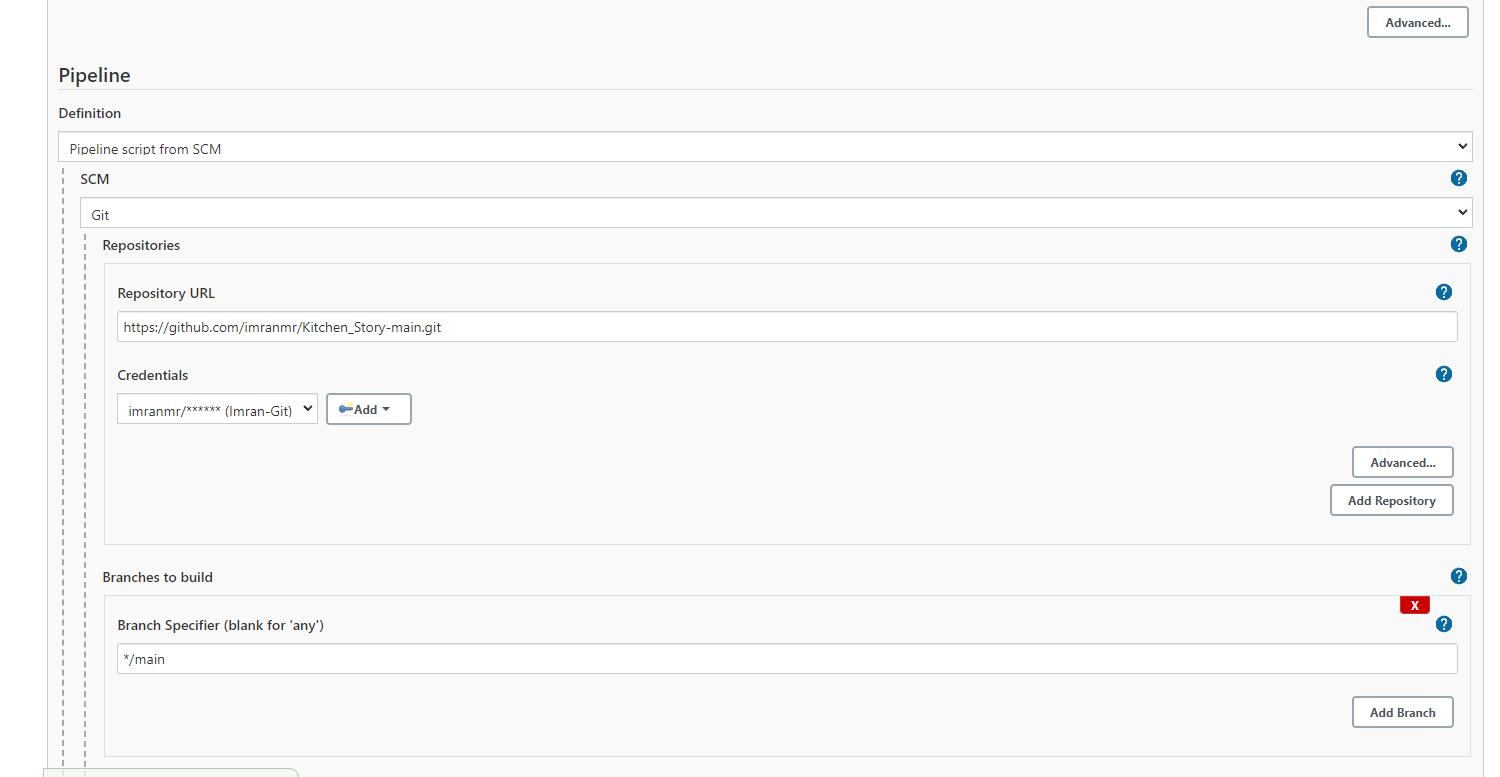
CI/CD Deployment for Springboot Application

This project requires access to AWS EC2 instances. The technologies used are as follows:

* Jenkins
* Spring boot
* Docker
* Eclipse
* AWS EC2

To setup the project, follow the instructions below:

1. **Setup EC2 instance on AWS**
   1. Make sure EC2 has following settings:
   2. 
   3. Once created, ssh into the EC2 instance
2. **Install Jenkins**
   1. sudo apt-get update
   2. sudo apt install default-jdk -y
   3. sudo apt install git -y
   4. sudo apt install maven -y
   5. wget -q -O - https://pkg.jenkins.io/debian-stable/jenkins.io.key | sudo apt-key add -
   6. sudo sh -c 'echo deb https://pkg.jenkins.io/debian-stable binary/ > /etc/apt/sources.list.d/jenkins.list'
   7. sudo apt-get update
   8. sudo apt-get install jenkins -y
   9. sudo usermod -a -G docker jenkins
   10. sudo service jenkins restart
3. **Install MySQL**
   1. sudo apt install docker.io -y
   2. sudo usermod -aG docker $USER
   3. sudo docker network create kitchen-mysql
   4. sudo docker pull mysql/mysql-server:latest
   5. sudo docker run --rm --name=mysql-container --network kitchen-mysql -p3306:3306 -e MYSQL\_ROOT\_HOST=% -e MYSQL\_ROOT\_PASSWORD=mysql-pw -e MYSQL\_DATABASE=phase4project -d mysql/mysql-server
4. **Once mysql is running add data to it**
   1. sudo docker exec -t mysql-container bash
   2. mysql -uroot -pmysql-pw
   3. use phase4project;
   4. insert into user (userid, adminrights, email, firstname,lastname, mobile, password) values (1,1,"imran.raji@gmail.com","Imran","Raji","2223334444","admin");
   5. insert into product (productid, price, productname, productquantity, userid) value (1, 2, "Apples", 20, 1);
   6. insert into product (productid, price, productname, productquantity, userid) value (2, 2, "Mango", 20, 1);
   7. insert into product (productid, price, productname, productquantity, userid) value (3, 2, "Grapes", 20, 1);
   8. insert into product (productid, price, productname, productquantity, userid) value (4, 2, "Watermelon", 20, 1);
   9. insert into product (productid, price, productname, productquantity, userid) value (5, 5, "Chicken", 20, 1);
   10. insert into product (productid, price, productname, productquantity, userid) value (6, 5, "Lamb", 20, 1);
   11. insert into product (productid, price, productname, productquantity, userid) value (7, 5, "Beef", 20, 1);
   12. insert into product (productid, price, productname, productquantity, userid) value (8, 5, "Fish", 20, 1);
   13. insert into productdetail (productdetailid, type, productid) value (1, "Fruits",1);
   14. insert into productdetail (productdetailid, type, productid) value (2, "Fruits",2);
   15. insert into productdetail (productdetailid, type, productid) value (3, "Fruits",3);
   16. insert into productdetail (productdetailid, type, productid) value (4, "Fruits",4);
   17. insert into productdetail (productdetailid, type, productid) value (5, "Meats",5);
   18. insert into productdetail (productdetailid, type, productid) value (6, "Meats",6);
   19. insert into productdetail (productdetailid, type, productid) value (7, "Meats",7);
   20. insert into productdetail (productdetailid, type, productid) value (8, "Meats",8);
5. **Visit the EC2 host website at port 8080 and create a user**
   1. Get the admin password by typing:
   2. sudo su
   3. cat /var/lib/jenkins/secrets/initialAdminPassword
   4. Once user is created, create a new project of type pipeline
   5. Set the following definition:
   6. 
   7. Click apply and save
6. It should start building. Use postman to access API’s.

