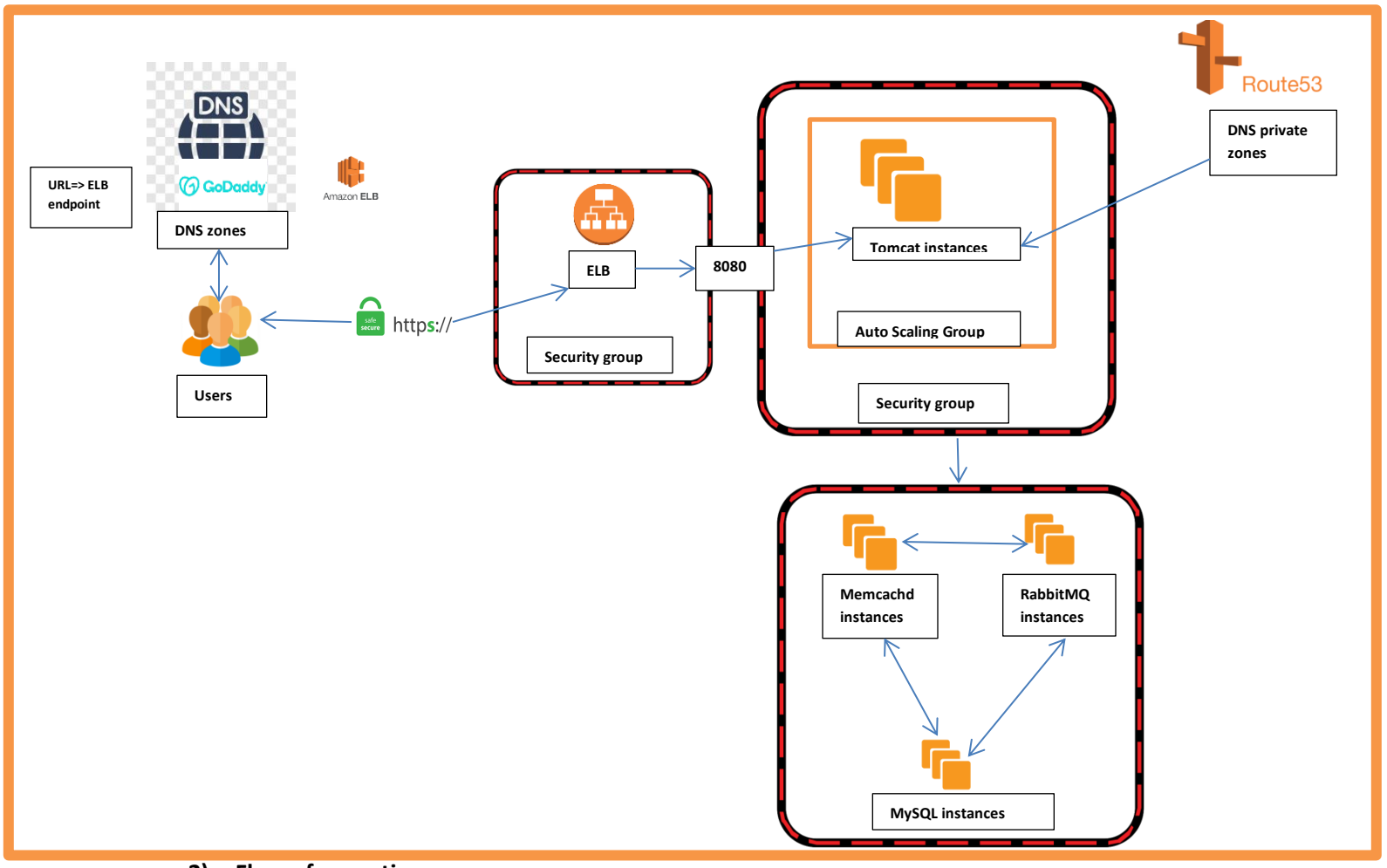
AWS Cloud for web app setup [Lift& shift]

1) Stack Architecture:



2) Flow of execution:

- Login to AWS account
- Create key pairs
- Create security groups
- Launch instances with user data
- Update IP to name mapping in route 53
- Build app from source code
- Upload to S3 bucket
- Download artifact to Tomcat EC2 instance
- Setup ELB with HTTPS(Certificate from ACM)
- Map ELB Endpoint to website name in Godaddy DNS
- Verify

3) Tools used:

- **Spring MVC:** Allows building web apps in java

  //To use Spring MVC, we must first declare its dependency in the pom.xml file of our Maven project//

- **Spring security:** Powerful and highly customizable authentication and access-control framework.

  //It is the de-facto standard for securing Spring-based applications.//

- **Spring DATA JPA:** Part of the larger Spring Data family, makes it easy to easily implement JPA based repositories.

  // Java Persistence API : Java programming interface that allows developers to organize relational data in applications using the Java platform.//

- **Maven:** A production management and automation tool for Java software projects in general and Java EE in particular.

  //It is used to automate continuous integration during software development. Maven is maintained by the Apache Software.//

- **JSP:** Java Server Pages is a Java technology that allows the generation of dynamic web pages.

  // JSP technology makes it possible to separate the presentation in the form of HTML code and the processing written in Java in the form of JavaBeans or servlets.//

- **MySQL.**