

Relational Databases

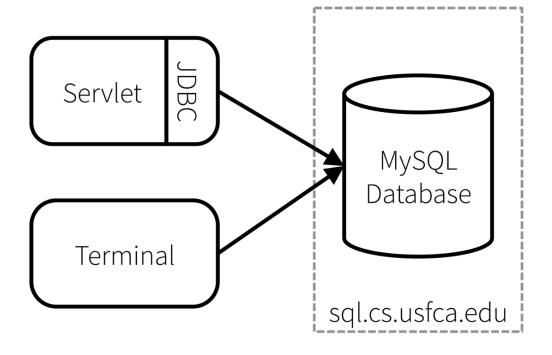
Java Database Connectivity (JDBC)

JDBC

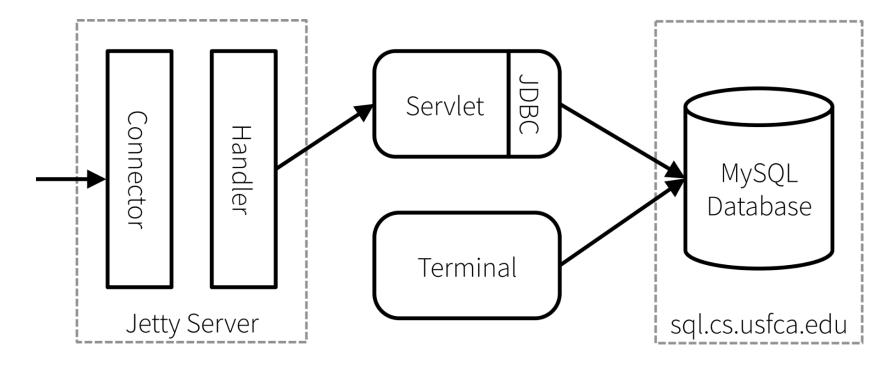
- Java Database Connectivity (JDBC)
 - Java API to access relational databases
 - See packages java.sql.* and javax.sql*
- Requires a "driver" for specific DBMS
 - MySQL, Oracle, Postgres, etc.
- Useful for database-backed web apps

https://docs.oracle.com/javase/8/docs/api/java/sql/package-summary.html

Architecture



Architecture



On-Campus Configuration

- Connect directly to sql.cs.usfca.edu
 - Via database.properties file and JDBC
 - Via terminal and mysql command

On-Campus Configuration

username=user##

password=??

database=user##

hostname=sql.cs.usfca.edu

Off-Campus Configuration

- Must create SSH tunnel to connect to database
 - ssh ????@stargate.cs.usfca.edu -L
 3307:sql.cs.usfca.edu:3306 -N
- Point database connection to tunnel on local system
 - hostname=localhost:3307



CHANGE THE WORLD FROM HERE