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# Web Apps and Spring Core MVC

## Lesson 2 - Tomcat for Developers

# Objectives

- Run Tomcat locally
- Learn how to change Tomcat ports
- Learn how to add users and roles to Tomcat
- Understand the Tomcat directory structure
- Deploy a web app via the file system
- Deploy a web app via the Management Console

# Tomcat Overview

- Servlet Container
- NO EJBs
- Part of Apache — open source
- Reference implementation and de facto standard

# Directory Structure

- bin: executable scripts
- conf: configuration files
- lib: server-wide libraries
- logs: server and web application logs
- temp: JVM temp files
- webapps: all the web application on the server
- work: Tomcat runtime working files

# The 'bin' Directory

- All startup and shutdown scripts
- Both Windows and \*nix scripts
- catalina.bat runs Tomcat in separate window
  - catalina.bat start
  - catalina.bat stop

# The 'conf' Directory

- server.xml — port settings (among other things) for Tomcat:
  - HTTP, HTTPS, shutdown ports
  - Need to change these if running multiple Tomcat server locally
- tomcat-users.xml — set users and roles for management console (more on console later)

# The 'webapps' Directory

- This is where all the webapps hosted on this instance of Tomcat live
- If set up for auto-deploy (default) Tomcat automatically expands war files placed in this directory



# Management Console

- Permissions controlled by tomcat-users.xml
- Server status
- Deploy/undeploy applications

# Questions

