Installing Apache Tomcat on tomcat01lab

UE Software Engineering, WS 2013
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Installing production TOMCAT server on "tomcat01lab"

- You need to log on to almighty

  - `ssh a<matr.nr>@almighty.cs.univie.ac.at`

- From there (as was with SVN configuration)

  - `ssh tomcat01lab`

- Download tomcat

  - `wget http://tweedo.com/mirror/apache/tomcat/tomcat-7/v7.0.32/bin/apache-tomcat-7.0.32.tar.gz`

- Extract

  - `>tar xvfz apache-tomcat-7.0.32.tar.gz`

- Go to "conf" folder of tomcat

  - `>cd apache-tomcat-7.0.32/conf`

- Add manager user

  - `>nano tomcat-users.xml`

  - (see local tomcat setup)

Configuring TOMCAT on "tomcat01lab"

- Change ports in `server.xml`

  - `nano server.xml`

  - You need to pick up two ports in range (31xxx – 32xxx)

  - In tutorial: 31640 for connecting and 32640 for shutdown

  - *BindException* if port is already taken!

```
<!-- Note:  A "Server" is not itself a "Container", so you may not
     define subcomponents such as "Valves" at this level.
     Documentation at /docs/config/server.html
 -->
<Server port="8005" shutdown="SHUTDOWN">

  <!--APR library loader. Documentation at /docs/apr.html -->
  <Listener className="org.apache.catalina.core.AprLifecycleListener" SSLEngine="on" />
  <!--Initialize Jasper prior to webapps are loaded. Documentation at /docs/jasper-howto.html -->
  <Listener className="org.apache.catalina.core.JasperListener" />
```

```
<!-- Note:  A "Server" is not itself a "Container", so you may not
     define subcomponents such as "Valves" at this level.
     Documentation at /docs/config/server.html
 -->
<Server port="32640" shutdown="SHUTDOWN">

  <!--APR library loader. Documentation at /docs/apr.html -->
  <Listener className="org.apache.catalina.core.AprLifecycleListener" SSLEngine="on" />
  <!--Initialize Jasper prior to webapps are loaded. Documentation at /docs/jasper-howto.html -->
  <Listener className="org.apache.catalina.core.JasperListener" />
```

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Configuring TOMCAT on "tomcat01lab"

- Change connector port

```
<Connector port="8080" protocol="HTTP/1.1"
           connectionTimeout="20000"
           redirectPort="8443" />
<!-- A "Connector" using the shared thread pool-->
<!--
<Connector executor="tomcatThreadPool"
           port="8080" protocol="HTTP/1.1"
           connectionTimeout="20000"
           redirectPort="8443" />
```
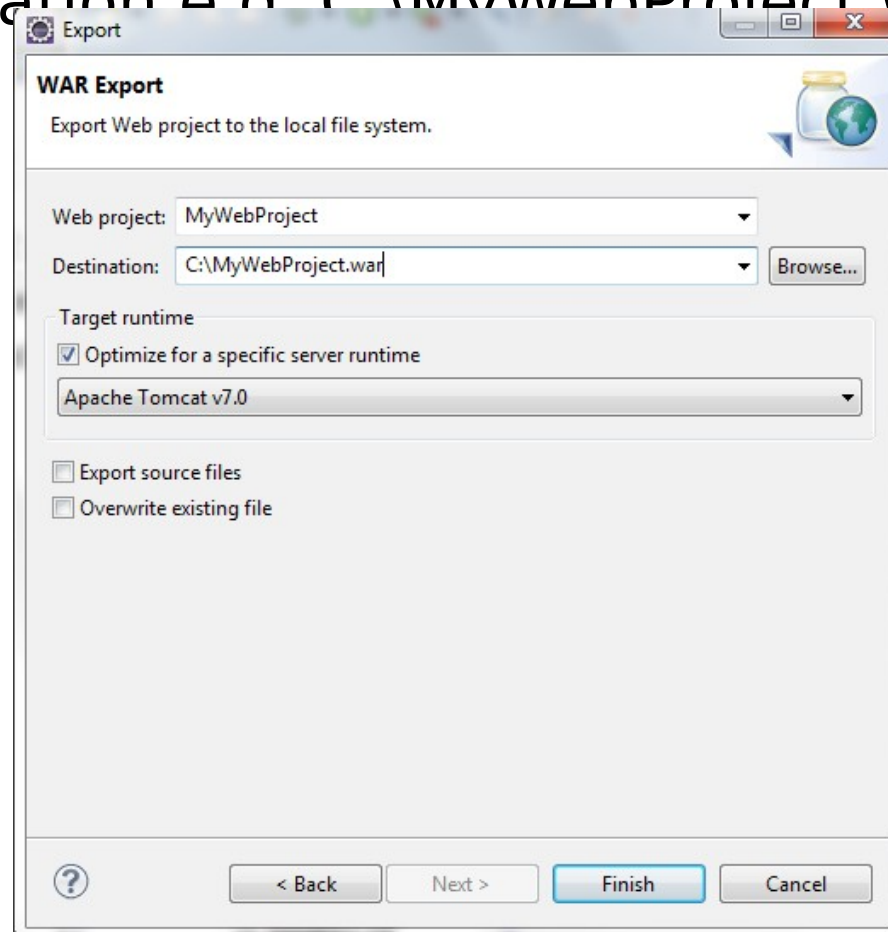
```
<Connector port="31640" protocol="HTTP/1.1"
           connectionTimeout="20000"
           redirectPort="8443" />
```

- Start the server
  - `<tomcat-dir>\bin\startup.sh`
- Check server logs (also useful for Error-handling!)
  - `tail –f <tomcat-dir>/logs/catalina.out`
- Wait for server to start until this message pops up
  - **INFO: Server startup in 27186 ms**

- then check if it works on
  - `http://tomcat01lab.cs.univie.ac.at:31640`

Remote deployment with WAR

○ Export to WAR

  ● Project->Export->Web->WAR File

○ Choose destination e.g. C:\MyWebProject.war

○ Click Finish

Deployment via manager

- Deploy via manager:

  - Go to tomcat manager

  - Go to "WAR file to deploy" section

  - Click "Choose File"

  - Click deploy

Check it out

Tomcat Web Application Manager

Message:	OK

Manager			
List Applications	HTML Manager Help	Manager Help	Server Status

Applications				
Path	**Display Name**	**Running**	**Sessions**	**Commands**
/	Welcome to Tomcat	true	0	Start Stop Reload Undeploy [Expire sessions] with idle ≥ 30 minutes
/MyWebProject	MyWebProject	true	0	Start Stop Reload Undeploy [Expire sessions] with idle ≥ 30 minutes
/docs	Tomcat Documentation	true	0	Start Stop Reload Undeploy [Expire sessions] with idle ≥ 30 minutes
/examples	Servlet and JSP Examples	true	0	Start Stop Reload Undeploy [Expire sessions] with idle ≥ 30 minutes