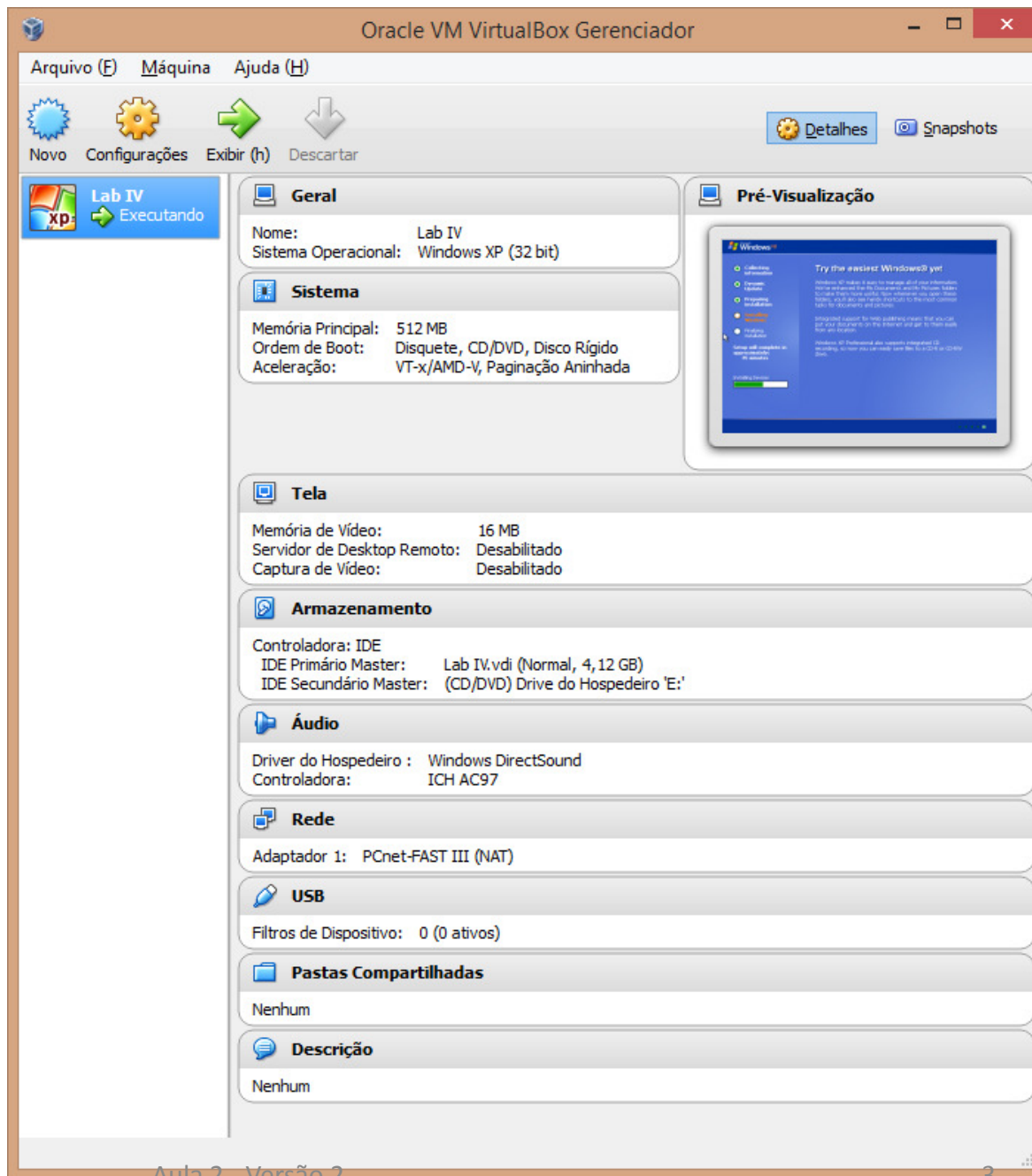# DCC156 Laboratório IV

www.ufjf.br/ciro_barbosa
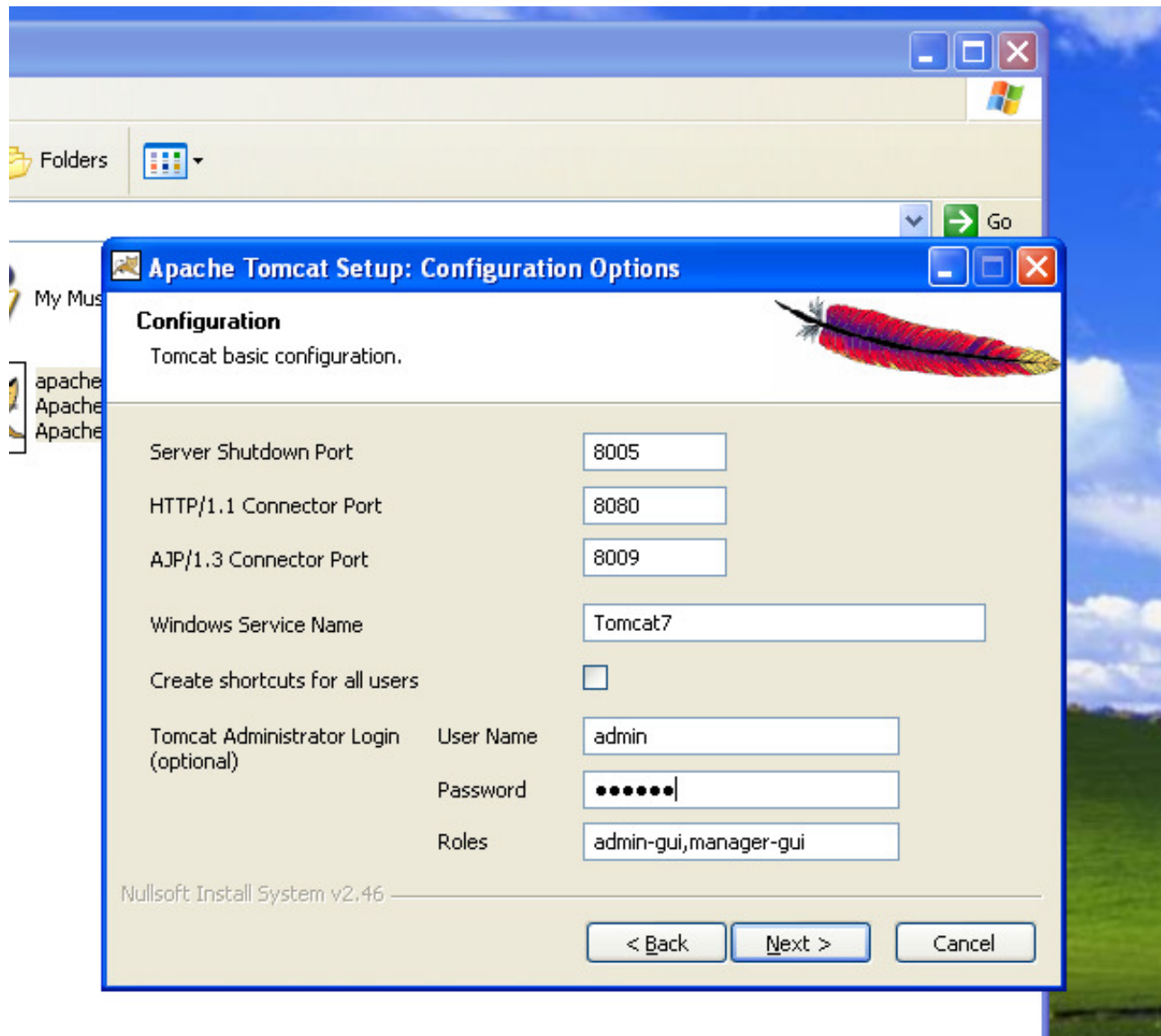
Depto. Ciência da Computação

Tópicos

- **Web-Server (Tomcat)**
- Arquitetura MVC
- Aplicações Web (Servlets, JSP e Javabeans)
- Acesso a BD (JDBC e ODBC)
- Persistência (DAO)

Uso do Virtual Box com SO Windows XP

Folders

Go

My Mus

apache
Apache
Apache

Apache Tomcat Setup: Configuration Options

Configuration

Tomcat basic configuration.

Server Shutdown Port	8005
HTTP/1.1 Connector Port	8080
AJP/1.3 Connector Port	8009
Windows Service Name	Tomcat7
Create shortcuts for all users	☐

Tomcat Administrator Login (optional)	User Name	admin
	Password	●●●●●●
	Roles	admin-gui,manager-gui

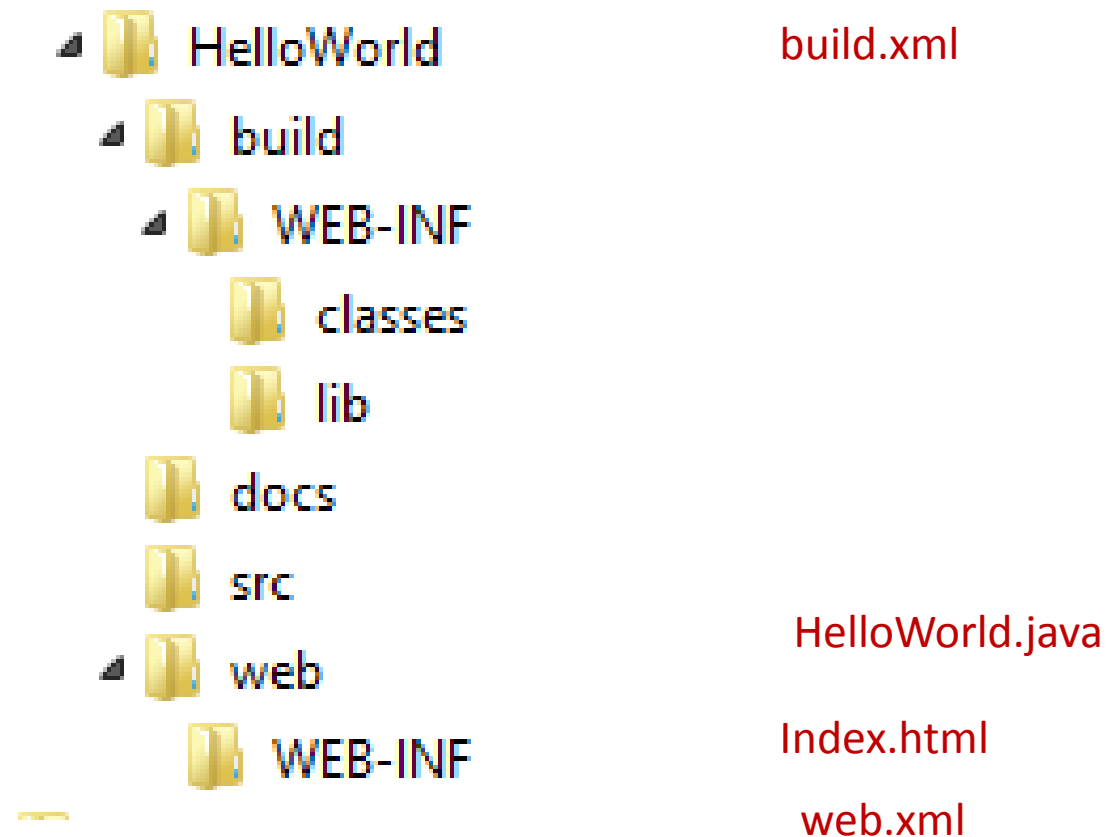Nullsoft Install System v2.46

< Back   Next >   Cancel

Exercício - HelloWorld

- Criar estrutura de diretórios
- Construir fontes (download do site)
- Configura *build.xml* para seu ambiente
- Mudar "*app.name*" para "*HelloWorld*"
- Mudar "*url_pattern*" para "*p1*"
- Compilar (ant)
- Implantar (ant install)
- Executar
- Apresentar ao professor!!

Estrutura de diretórios

HelloWorld   build.xml

    build

        WEB-INF

            classes

            lib

    docs

    src   HelloWorld.java

    web   Index.html

        WEB-INF   web.xml

web.xml [2]

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<web-app xmlns="http://java.sun.com/xml/ns/j2ee"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xsi:schemaLocation=http://java.sun.com/xml/ns/j2ee
http://java.sun.com/xml/ns/j2ee/web-app_2_4.xsd  version="2.4">
   <display-name>display-name</display-name>
   <description>
           This is a simple web application with a source code organization
           based on the recommendations of the Application Developer's Guide.
   </description>
   <servlet>
     <servlet-name>Servlet-name</servlet-name>
     <servlet-class>HelloWorld</servlet-class>
   </servlet>
   <servlet-mapping>
     <servlet-name>Servlet-name</servlet-name>
     <url-pattern>/url-pattern</url-pattern>
   </servlet-mapping>
</web-app>
```

Ant - built.xml [3]

```xml
<project name="My Project" default="compile" basedir=".">
<!-- ======== Property Definitions =========================== -->
 <property file="build.properties"/>
 <property file="${user.home}/build.properties"/>
<!-- ======= File and Directory Names ======================= -->
 <property name="app.name"      value="app.name"/>
 <property name="app.path"      value="/${app.name}"/>
 <property name="app.version"   value="0.1-dev"/>
 <property name="build.home"    value="${basedir}/build"/>
 <property name="catalina.home" value="/Program Files/Apache Software
Foundation/Tomcat 7.0"/>
 <property name="dist.home"     value="${basedir}/dist"/>
 <property name="docs.home"     value="${basedir}/docs"/>
 <property name="manager.url"   value="http://localhost:8080/manager/text"/>
 <property name="manager.username"   value="admin"/>
 <property name="manager.password"   value="123456"/>
 <property name="src.home"      value="${basedir}/src"/>
 <property name="web.home"      value="${basedir}/web"/>
```

index.html

```html
<html>
  <head>
    <title>Sample "Hello, World" Application</title>
  </head>
  <body bgcolor=white>
   <table border="0">
    <tr> <td>
        <h1>Sample "Hello, World" Application</h1>
        <p>This is the home page for a sample application.
      </td> </tr>
    </table>
    <p>To prove that it works, you can execute the following link:
    <ul> <li>To a <a href="url-pattern">servlet</a>.  </ul>
</body>
</html>
```
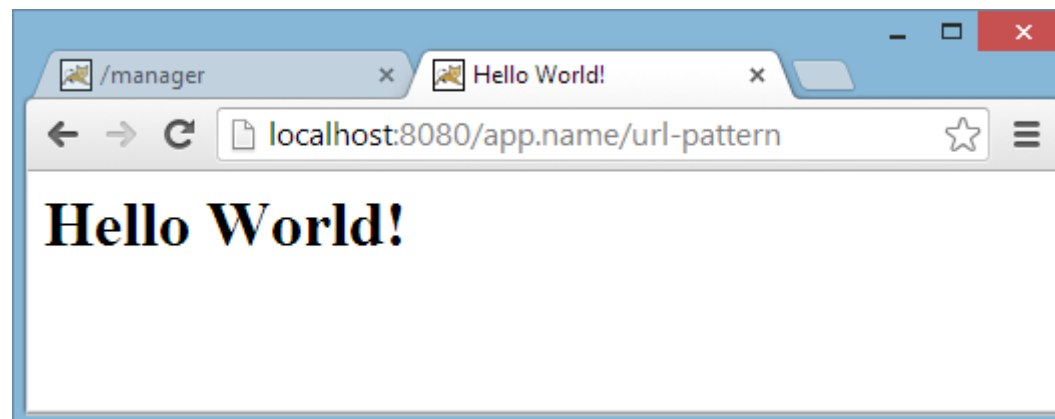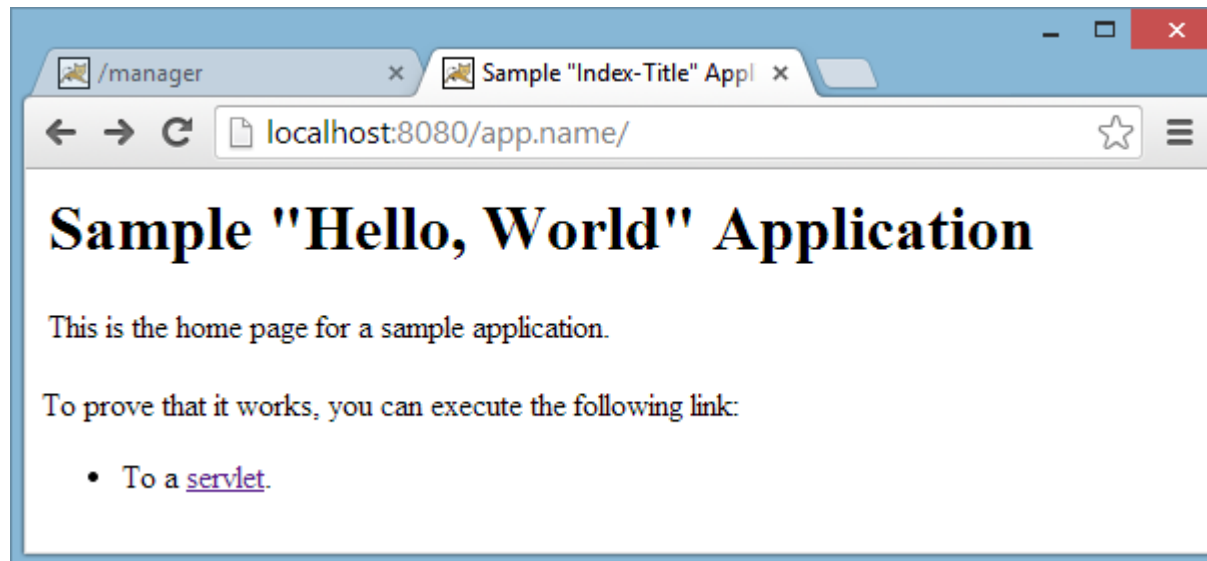
Servlet – HelloWorld.java [1]

```java
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class HelloWorld extends HttpServlet {

    public void doGet(HttpServletRequest request, HttpServletResponse response)
    throws IOException, ServletException
    {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        out.println("<html>");
        out.println("<head>");
        out.println("<title>Hello World!</title>");
        out.println("</head>");
        out.println("<body>");
        out.println("<h1>Hello World!</h1>");
        out.println("</body>");
        out.println("</html>");
    }
}
```

Referências

[1] http://localhost:8080/examples/servlets/helloworld.html

[2] C:\Program Files\Apache Software Foundation\Tomcat 7.0\webapps\sample\WEB-INF\web.xml

[3] http://localhost:8080/docs/appdev/build.xml.txt