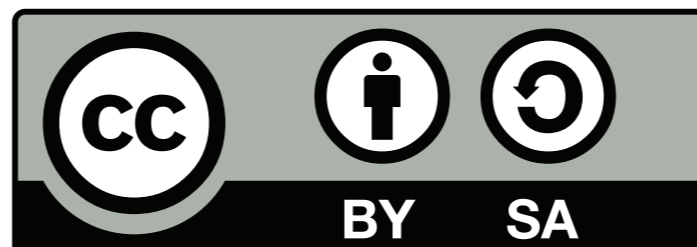


Tecnologia e Applicazioni Internet 2010/11

Lezione 2 - Web Server in Java

Matteo Vaccari

<http://matteo.vaccari.name/>
matteo.vaccari@uninsubria.it



Soluzioni dell'esercizio “paste(l)”

Jetty Embedded

```
import org.mortbay.jetty.Request;
import org.mortbay.jetty.Server;
import org.mortbay.jetty.handler.AbstractHandler;

Handler handler= new AbstractHandler() {
    public void handle(String target,
        HttpServletRequest request, HttpServletResponse response, int dispatch)
        throws IOException, ServletException {

        response.setContentType("text/html");
        response.setStatus(HttpServletResponse.SC_OK);
        response.getWriter().println("<h1>Hello</h1>");
        ((Request)request).setHandled(true);
    }
};

Server server = new Server(8080);
server.setHandler(handler);
server.start();
```

HttpServletResponse

```
void setContentType(String type)
void setContentLength(int length)
ServletOutputStream getOutputStream() // output binario
PrintWriter getWriter() // output testo
```

```
void setHeader(String name, String val)
void addCookie(Cookie cookie)
```

```
void sendRedirect(String url)
void setStatus(int code)
```

HttpServletRequest

<http://www.example.com/context/hello/world>

String getParameter(String)
Enumeration getParameterNames()

String getScheme() //=> http
String getServerName() //=> www.example.com
getServerPort() //=> 80
getRequestURI() //=> /context/hello/world
getContextPath() //=> /context
getServletPath() //=> /hello
getPathInfo() //=> /world

String getRemoteAddr()
String getRemoteHost()

Enumeration getHeaderNames()
String getHeader(String name)

Cookie[] getCookies()

More handlers

```
Server server = new Server(8080);
```

```
Handler first = new FirstHandler();  
Handler second = new SecondHandler();
```

```
HandlerCollection handlers = new HandlerCollection();  
handlers.setHandlers(new Handler[]{param,hello});  
server.setHandler(handlers);
```

```
server.start();
```

A simple File Server

```
Server server = new Server(8080);
```

```
ResourceHandler resource_handler = new ResourceHandler();  
resource_handler.setWelcomeFiles(new String[]{"index.html"});  
resource_handler.setResourceBase("/Users/matteo/examples");
```

```
HandlerList handlers = new HandlerList();  
handlers.setHandlers(new Handler[]{ resource_handler, new DefaultHandler()});  
server.setHandler(handlers);
```

```
server.start();
```

Example: serving an image

Write a server that shows a picture, with a title and a caption

- The path, title and caption are specified in a configuration file