Advanced Internet Technologies

Lab Sessions

Exercises 1, 2

- Apache
- CGI

Apache

- Get the Apache bundle according to your operating system
- ONLY Apache now
- Install it
- Deploy your web server
- Show the traditional "It Works!" Screen
- Find htdocs
- Customize the initial page to show anything else

- Apache
 - Find the httpd.conf
 - Review it
 - Make Apache listen through port 8888 instead of 80
 - Restart the Apache server
 - Reload your page
 - If it fails, add the port number to the address
 - Write your experience report (Exercise 1), discussing the steps you took, problems you faced and how you solved them

CGI

- In your Apache server, locate the cgi-bin folder
- Use your favorite text editor to write the following C code
 - Create a C++ program that defines a class with a method that, given an integer N input value, writes an HTML table with N rows with arbitrary content
 - Look example in the whiteboard

• CGI

```
<html>
<head>
  <title>Lab Exercise 2<title>
</head>
<body>
 Iteration1
 </body>
<html>
```

CGI

- Compile the C++ code using gcc, g++ or mingwC
 - Linux: # which gcc
 - Mac: \$ which g++
 - Windows gcc.exe
- Locate the generated object code and place it in cgi-bin
- Verify that the permissions of the binary file are
 755 (or execution permissions if Windows)

CGI

- Restart apache and try to execute the CGI
- Tip: If it does not work, review the execution permissions of the cgi-bin folder in httpd.conf
- Write your experience report (Exercise 2),
 discussing the steps you took, problems you faced
 and how you solved them