

Lec 3: Web Server Configuration

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Image: DALL-E. Bing Image Creator. Generated by AI

Previous Lecture

- Technical foundations of digital innovation
- Evolution of the Internet
- Course Calendar Overview
- Unit description: Implementing a solution
- MVP, Rapid Prototyping, and Three-tier Architecture
- Starting points: CSID, timberlea, ssh and PuTTY
- Logging into timberlea server
- PuTTY, ssh (Secure SHell) connection
- Creating a simple web page
 - ssh, bash commands,
 - file permissions,

Notes and Announcements

- Lab 1 finished last Friday, due on Thursday by midnight
- Issues with copy-and-paste from PDF
 - tilde character (~)
 - other issues possible, such as quotes
- Solution: do not copy-and-paste but type
- Suggestion: learn touch-typing

Aside: Touch Typing

- If you don't use touch typing, consider learning it
- A relatively simple and not popular skill, but
 - actually important, and even more and more relevant
- Also known as blind typing, and touch keyboarding
- Reference: https: //en.wikipedia.org/wiki/Touch_typing

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Touch Typing



Touch Typing (2)

Image source of the previous slide: https://news.sophos.com/wp-content/uploads/ 2023/08/tt-1200.png

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Example e2: User Registration, Printable Page, Files Shared

- Consider a Conference Management System: CoMS
- Let us build a conference registration form
- We also want to provide them with some material
- First iteration: Create a printable form
- Create directory public_html/dgin5201/e2
- Go to that directory
- Add file index.html (content to be given)
- Make sure that the permissions of e2 are rwx--x--x, and of index.html are rwxr--r--

Example 2: public_html/dgin5201/e2/index.html

<html><head><title>Conference Registration</title></head> <body> <h1>Conference Registration</h1>

```
This is a registration page for CoMS.<br/>
For additional documents, please check <a
href="material">here</a>.<br/>
Please enter your information below to register:
First and last name:
_____
Email:
_____
Area of Interest (DB, HI, DS):
_____
```

Example 2: Make material available

- Create readable and accessible ('executable') directory material (permissions: rwxr-xr-x)
- Copy PDF from: ~vlado/public/dt-mini-conf.pdf into directory material
- Setup permissions for the directory material to be all readable and accessible (rwxr-xr-x), and for the file dt-mini-conf.pdf to be all readable (rw-r--r--)
- Try to access material link on the page. Does it work? Why?

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Example 2: Prepare .htaccess in material directory

- Prepare file .htaccess and make it all readable (rw-r--r--):
 Options Indexes
- Check material access now
- Add the following line to .htaccess and try accessing again:
 Options Indexes
 AddDescription "DT Conference Poster (PDF)" dt-mini-conf.pdf
- Add "and Information" to "DT Conference Poster" and access
- Add the following line and try again:

Options Indexes IndexOptions DescriptionWidth=* AddDescription "DT Conference Poster..." dt-mini-conf.pdf

- .htaccess file is used to configure Apache web server behaviour
 - can be used to provide a simple password-protected access

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Concepts Review: Example 2

- Creating something that looks like form when printed
- HTML tags: head, title, h1, p, br, a, table, tr, th, td
- HTML attribute:
- bash shell: cp, using path, ~vlado
- Accessing directory via browser
- .htaccess file for the Apache server: Options Indexes, AddDescription

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