CS320 Web and Internet Programming
Development on a Linux Server

Chengyu Sun
California State University, Los Angeles

.bashrc

- Executed every time you log into your account
- A good place to put some commands that help you set up your environment
- wget
  http://www.calstatela.edu/faculty/csun/teaching/cs320/extras/.bashrc

Directory Structure

- root directory /
- current directory .
- Parent directory ..
- home directory ~

Moving Around

- cd /absolute/path
- cd relative/path
- cd

Directory and File Commands

- Find current directory: pwd
- List directory content: ls
  - list all files -a
  - list files in long format -l
- Copy files
  - cp file1 file2
  - cp file1 file2 dir
- Move/rename file
  - mv file1 file2
  - mv file1 file2 dir

Some Useful Commands

- Reference the manual pages
  - man <command>
- Create command aliases
  - alias dir="$ls -lx"
Choices of Editors

- Console
  - vi, vim
  - emacs
  - pico

- With X Forwarding
  - gvim
  - xemacs
  - gedit
  - IDEs
    - Netbeans
    - Eclipse
    - KDevelop

Environment Variables

- Set an environment variable X
  - export X="something"

- Show an environment variable X
  - echo $X

- Common environment variables
  - $HOME, $PATH
  - $JAVA_HOME

File Permissions

- Three categories of users:
  - owner, group, other

- Three privileges
  - read, write, execute

File Permission Example

<table>
<thead>
<tr>
<th>rwx</th>
<th>user</th>
<th>group</th>
<th>other</th>
<th>size</th>
<th>date</th>
<th>type</th>
</tr>
</thead>
<tbody>
<tr>
<td>d-------</td>
<td>pollux</td>
<td>pollux</td>
<td>pollux</td>
<td>4096</td>
<td>Sep 24 14:31</td>
<td>.bashrc</td>
</tr>
<tr>
<td>rwx-----</td>
<td>pollux</td>
<td>pollux</td>
<td>pollux</td>
<td>116</td>
<td>Sep 24 14:53</td>
<td>.mysql_history</td>
</tr>
<tr>
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<td>pollux</td>
<td>pollux</td>
<td>pollux</td>
<td>790</td>
<td>Sep 24 14:52</td>
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<td>pollux</td>
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<td>pollux</td>
<td>pollux</td>
<td>pollux</td>
<td>4096</td>
<td>Sep 24 14:32</td>
<td>.xemacs</td>
</tr>
</tbody>
</table>

Change File Permissions

- chmod