Computer Systems and -architecture

UNIX Scripting

1 Ba INF 2011-2012

Ruben Van den Bossche
ruben.vandenbossche@ua.ac.be

Sam Verboven
sam.verboven@ua.ac.be

Time Schedule

Exercises are made individually. Put all your files in a tgz archive, as explained on the course's website, and submit your solution to the exercises on Blackboard.

- Deadline: **October 24, 23u55**

Exercises

Include all scripts you wrote in the TGZ-file!

1. Write a script that asks for your first name and last name and prints your initials.

2. Write a script that reads a number and prints it as 'amount (in $US) = $....'

3. Write a script that looks up the name of the executing user and prints the initials.

4. Write a script that makes a tarball of the current directory. The user specifies the name of a file he doesn't want in the tarball at the command line, and gets a tarball with a name of the form 'backup_DATE.tgz'. DATE is today's date in the format DD_MM_YYYY.

5. Create a script that reads two numbers and prints the smallest.

6. Create a script that reads a login name and verifies if that user is currently logged in.

7. Create a script that reads a word, and says whether that word starts with a vowel or a consonant.

8. Create a script that reads a file name and verifies whether that file a regular file or a directory. If the file is a regular one and is readible, display the content on screen. If it is a directory that is readable, show the contents of the directory. Otherwise give an error.

9. Extend the script from the previous exercise so that it recursively displays the content of all files that are readable in the directory, instead of just the contents of the directory. If one of the files in the directory is a directory itself, the content from this directory is also printed, and so on. The name of the file is passed through command line.

10. Create a script that implements the game *nim*. At the beginning of the game, there are a number of matches (to be determined by the player). On each turn, one of the two players may take 1, 2 or 3 matches away. The person who removes the last match wins.