RCS

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Revision Control System

- RCS is a tool which helps you edit files, retaining earlier revisions in a structured way
- Written in the 1980s; unix tool; designed as an improvement over an earlier tool, SCCS
- http://www.gnu.org/software/rcs/rcs.html

RCS Can Help

- Allows multiple people to edit the same file without unfortunate accidents
- Allows changes to be rolled back
- Allows changes made at specific times to be identified

The Basics

- RCS stores all revisions of a file in a specially-named companion file
- Revisions for "some_file" are stored in "some_file,v"
- The ",v" file is stored in an "RCS" subdirectory, if one exists, to help keep things tidy

Audit Trail

- For each revision of a file, RCS stores:
 - the changes that were made
 - the time and date of the changes
 - the person making the changes
 - a log message

- First, make sure an "RCS" subdirectory exists
 - mkdir RCS

- If the file you want to edit has not already been checked into RCS (check the RCS directory for a ",v" file):
 - ci -u file_name
- You will be prompted for a brief description of the file

- If you want to edit a file, you first check it out and lock it:
 - co -l file_name
- The "-I" flag applies a weak lock to the file
 - other people who try to edit it will get a warning message

• Edit the file, using whatever editor you like

- Check the file back in, and unlock it:
 - ci -u file_name
- RCS will ask you for a log message, to help people in the future understand the change you made
 - e.g."added cctld.or.ke, updated SOA serial"

Easy Recipe Summary

- mkdir RCS (if necessary)
- ci -u file_name (if necessary)
- co -l file_name (check out, lock)
- edit file
- ci -u file_name (check in, unlock)

Managing Revisions

- You can check out and lock the revision of a file corresponding to a particular date:
 - co -d "8:00 pm" file_name
 - co -d "2005-09-02 16:00:00+03" file_name
- See "man co" for all the date formatting options

Managing Revisions

- You can view the RCS log for a file to see what has happened to it recently:
 - rlog file_name

For More Information

- man rcs
- man ci
- man co
- man rlog
- http://www.gnu.org/software/rcs/rcs.html