

# Final project ideas!

Hands-On UNIX System Administration DeCal, Fall 2012

Need an idea for your final project? Here are some suggestions to get you started (ideas taken from past semesters). But feel free to use your own ideas for your project!

- Build a web server (e.g., LAMP). You could, for example, build a blog, or design and create a webpage using HTML, PHP, and a MySQL back-end that allows interaction with a user to do something, like storing or retrieving information from a database.
- Build a mailserver complete with POP3/IMAPS, authenticated SMTP, spam filtering, and a web-frontend.
- Set up SSL on your webserver. Generate a CA and self-sign a certificate for use on your webserver. Add HTTP Authorization to password protect a site and setup usernames and passwords in a database table.
- Build a web interface in which users can run command line scripts securely.
- Look at how SSH authenticates users and implement other methods through PAM (database, kerberos, LDAP)
- Customize, compile, and install your own kernel.
- Web Traffic Analyzer
  1. Snoop traffic of the whole subnet.
  2. Rotate/delete files accordingly to preserve space.
  3. Put real-time results on a nice website + blog.
- Using a scripting language, design and implement a tool that will post the pertinent information of certain log files to the server home page.