Meet linux - Introduction to the LPI Certification Course

Exercises in

Operating Systems

Meet Linux

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Goals for this exercise

• Let information find you: Become savyy in finding and free and good information.

•Make yourself familiar with our linux environment (including log-in etc.)

• Take a look at the linux certification from the Linux Professional Institute and IBM

• Start with the first lessons from the linux course

We need to make sure that everybody in the room has the proper authorizations.

2

The Linux Certification

Instead of inventing a new exercise on linux operating systems we want to use an existing, well structured course from the Linux Professional Institute. This will allow those of you who are interested in getting certified to do the test for certification.

Another advantage of the course is that it allows you to also work offline and use the exercise hours here for discussion of problems.

3

The Test at the end

It is NOT a requirement to take the Linux Examination from the professional institute. We will do our own test at the end of the operating system class. Have a look at the questions and answers on www.kriha.de (This will grow a lot over the course and many of the test questions will come from the Q&A paper). Whenever you think something from the class is important just turn it into a question and I will add it to the Q&A list.

Course Materials (2)

LPI certification 101 exam prep,
Daniel Robbins
January 2003

The start of the course: http://www-105.ibm.com/developerworks/education.nsf/linux-onlinecourse-bytitle/4AAA4E689F774DBC86256B4500645075?OpenDocument

LPI certification 101 exam prep, Part 1: Linux fundamentals

LPI certification 101 exam prep, Part 2: Basic administration
LPI certification 101 exam prep, Part 3: Intermediate administration
LPI certification 101 exam prep, Part 4: Advanced administration
LPI certification 102 exam prep, Part 1: Compiling sources and managing packages
LPI certification 102 exam prep, Part 2: Configuring and compiling the kernel
LPI certification 102 exam prep, Part 3: Networking
LPI certification 102 exam prep, Part 4: Secure shell and file sharing

Please register for the first tutorial: Linux fundamentals

Course Materials (1)

1. www.ibm.com/developerworks , a portal from IBM to excellent tutorials and articles, full with practical tips and examples on many different technologies.

2. www.ibm.com/developerworks/training , the training portal.

3. The linux professional institute: http://www.lpi.org

Go and register for the newsletters. You should let the information find you instead of always hunting for it. Also browse the sites for other interesting papers and articles. Are you interested in wireless technology? There is plenty of material there.

Resources (1)

- The Linux System Administrators Guid, Lars Wirzenius, Joanna Oja, Stephen Stafford.
- The linux documentation project: http://tldp.org/guides.html is where you will find the most documentation on Linux and all for free.
- Linux, The Textbook, by Sarwar, Koretsky and Sarwar. A good and fairly complete book for unix or linux beginners.
- Bash by example (1 and 2), Daniel Robbins. Fundamentals of programming with the linux „bash" shell. Find it on www.ibm.com/developerworks
- Linux resources from the linux journal: http://www.linuxjournal.com/resources.php . You can register for the newsletter. It is a very good magazine as well!!
- The ultimate guide on linux for beginners, http://www.linuxlots.com/~jam/index.html

Resources (2)

- Jochen Hiller, Lego Mindstorms – Introduction. An excellent overview of the lego platform and the lejos java operating system which runs on this device. http://www.jugs.org/protokolle/02-09-12/leJOS-v1.1.pdf . This is an ideal chance to see a java virtual machine in source code and a small footprint.

- The lejos homepage, www.lejos.org

- The LegOS homepage, www.legos.org