OPS235

Course Introduction

OPS235

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OPS235 in Transition...

OPS235 Resources

DNS Terminology

Welcome to OPS235

DNS Terminology

Materials for Lab 1

Welcome to OPS235!

- In ULI101, you learned how to work in the Linux environment in the Command Line environment (CLI) and possibly in the Graphical environment (GUI).

- That course was the first course in the OPS (Operating Systems) stream in your CNS / CTY program.

- This course (OPS235) will teach you skills how to run (administer) a Linux server (actually several), and provide a foundation for other courses in your progam.

Courses in the OPS Stream

Depending on your program (CNS / CTY) your courses may include:

General Linux System Administration:

OPS235: Linux System Administration Fundamentals (Bash shell scripting)

OPS335: Maintaining Linux Network Services (webserver, DNS, mail, etc)

Advanced Virtual Machine Management and Deployment:

OPS435: Shell Scripting (Python)

OPS535: Open System Clustering - Advanced Network Admin

OPS635: Enterprise Management - Emerging Technology

In addition, other courses (such as NDD430 and APL701 require knowledge of setting up and administering Linux servers)

OPS235 Fundamentals

OPS235 is considered a Linux adminstration **foundations** course.
The **key skills** for Linux system adminstration include:

- Various Linux installation methods
- Installing VM application(s)
- Managing VMs (creation, backups, etc)
- Rescuing Linux servers (booting)
- Managing Software (installing, removing, updates)
- Managing Services (eg network services - eg firewalls)
- Managing Disk Space (archive, monitoring, adjusting size)
- Managing Linux user accounts
- Creating and Managing a Virtual Private Network (VPN)
  - (both static IP and DHCP)
- Troubleshooting network issues
- Using SSH to secure a network

OPS235 Resources

The following OPS235 resources are essential for success:

- **OPS235 WIKI** (Required materials, notes, labs, resources, professors)
  https://wiki.cdot.senecacollege.ca/wiki/OPS235
  (Bookmark this site, don't search on Web!)

- **Learning Content Managment System (LCMS)**
  Either Blackboard or Moodle (Instructor will indicate which one to use)

- **OPS235 Course Outline**
  https://ict.senecacollege.ca/course/ops235?q=course/ops235
  (Evaluation information, topics, resources, etc.)

- **Instructor's website, e-mail, office location**
  Policies, teaching schedule, additional resources, etc.
  (Instructor will provide in class)

Course Outline, Course Policies, etc

A course outline for a course is like a contract: it is a binding agreement detailing:

- What a student needs to do to successfully complete a course
- What a professor needs to do to successfully deliver a course

Letting a student know the course policy requirements helps to avoid confusion, reduce academic appeals, and allows for a smooth and successful journey throughout the course.

Course Outline, Course Policies, etc

Your instructor will now take time to show you the course outline, and will discuss major course policies including:

- Course Description / Course Evaluation / Topic Outline

- Attendance and classroom behaviour

- Contacting your professor

- Quiz / Test / Final Exam policies (missed evalualtion)

- Assignment Policies (late or missed assignments)

- Accommodation Policies (Test Center, assignment deadlines)

(Refer to your instructor's resources for their course policies)

Materials for Lab 1

These are the MINIMUM materials required to succesfully perform lab1:

- Solid State Drive (SSD) Minimum Capacity: 240 GB (USB 3.0)
   (don't share with other courses - you have been warned)

- Centos7 Full Install Image (follow lab1 instructions on how to do this)

- USB Flash Drive (3.0 preferred) Minimum Capacity: 16 GB

- Lab Log-book (download and print from main WIKI)

Note: For students using a removable SATA drive, it is recommended to print-out lab1 instructions and bring to the next class!!! Students that use SSD drive do not have to printout lab1 (unless they want to...).

Next Class

- Your job is to bring the required material to the next class
  (no negotiations, excuses, sweet-talking, lawyer-garb, etc.)

- Your instructor will go over lab1 overview and "best practices" to avoid "headaches", "screaming", or another other types of "bad craziness".

- Your instructor might go through a demo of performing the installation portion of your Centos7 host machine in class for students to follow. Unfortunately the instructor may only show one method (eg. removable SATA drive as opposed to SSD, although instructions are clear for students to follow).