

Week #9 – E-mail and Printing

Overview of the week's objectives

Week #9 will cover Electronic Mail, Module O4L2, and Printing, Module O4L3.

In today's fast paced world of communications, one of the most used networking services besides web searches is email.

In this lesson, we will explore mail services available on Linux, and then setup email services on a Fedora machine.

Common Unix Printing System (CUPS) is a Unix-based service that allows a computer to function as a print server and provides print capabilities to users of various computer systems.

In this lesson, you will explore options for networked printing, history of CUPS, configuration settings, and related options.

This lesson is important to learn because reliable printing capability is very important to businesses and organizations, especially when employees use multiple computers systems and software that are not always fully compatible with each other.

Please refer to all "PREVIOUS WEEK's OVERVIEWS" for details / advice relating to, or concerning, each of the tasks detailed in the remainder of this overview. You are responsible for recommendations or instructions noted in them!

TODO List

Please refer to all previous “Week’s Overview PDFs” for details / advice about each of the tasks detailed in the remainder of this overview. While we focus on instructions specific to this week’s material herein, previous instructions still apply.

Learning Activity			Time in hours		Points
			Expected	Spent	
Reading Assignments	O4L2 O4L3	Online Module Guides & Videos	2		
Practice Assignments	O4L2-PQ O4L3-PQ	Taking Practice Quizzes	2		
		Working on PAs & Participating to PA forums	7		
Graded Assignments	W9-GQ	Taking Graded Quiz	1		2
		Participating to Discussion forums			1
			12		3

Task #1 – Reading Assignments

You will find one “[online module guide](#)” document in this week’s folder per module.

Refer to all previous “Week’s Overview PDFs” for detailed instructions on how to use [online module guides](#), [practice quizzes](#) and our [support forum](#) while working on this task.

Task #2 – Practice Assignments

Refer to “ALL PREVIOUS WEEK’s Overview PDF” files for detailed instructions applying to all Practice Assignments.

These activities were designed to help you think critically about the topics covered in this lesson and to assess whether your knowledge and application of the content meets the stated objectives. You will need to research each topic and complete the assignment as instructed. Do not rely only on the contents of this lesson or on Wikipedia to complete these assignments.

PA #1 : Lab – Upload Configuration Files (C4L2A1)

Gather all the configuration files used in this lesson. Use the files to create a tar file and upload using the standard naming convention to the assignment 1-drop box.

PA #2 : Lab – Add Password to Outbound Mail (C4L2A2)

Using information found on the Internet, specifically at <http://www.postfix.org>, update your configuration to password protect the outbound relaying of your email server.

Upload your configuration file changes to the assignment 2 drop box.

PA #3 : Lab – Archive Configuration Files (C4L2A3)

Archive your configuration files from **/etc/postfix** and **/etc/dovecot** and submit to the Assignment 3 drop box.

Submit a tar.bz2 archive and follow the standard naming convention of: *firstname_lastname_course4_lesson1_lab1.tar.bz2* to receive credit.

PA#4 : Lab – Compare Print Protocols (C4L3A1)

Compare and contrast CUPS, LPD, and standalone printing in a two-page double-spaced paper. Describe the advantages and disadvantages of each. Make sure you use reputable internet references to support your comparisons. Do not quote others. Summarize and provide references.

Be sure to add your name and assignment code.

PA #5 : Lab – Network Print Architecture (C4L3A2)

Using your school, workplace, or a local medical facility, design a network print architecture. Make sure you identify special needs areas (like special hardware requirements or security restraints).

Use pictures or flow-charts to help with your plan. Your goal is to configure CUPS servers to meet these needs. Submit to the drop-box as a single PDF or Word processing document.

Be sure to add your name and assignment code.

PA #6 : Lab – Archive Configuration Files (C4L3A3)

Archive all of your configuration files from **/etc/cups** and submit to the drop box. Submit a tar.bz2 archive and follow the standard naming convention of: `firstname_lastnameC4L3A3.tar.bz2` to receive credit. .

PA #7 : Lab – User a Different Distro for CUPS (C4L3A4)

If you completed Assignment 3 with a Fedora server, configure an Ubuntu client to connect to this server. Please submit your configuration files as a tar.bz2 archive following the standard naming convention of: `firstname_lastnameC4L3A4.tar.bz2` to receive credit.

If you completed Assignment 3 with a Ubuntu server, configure a Fedora client to connect to this server. Please submit your configuration files as a tar.bz2 archive following the standard naming convention of: `firstname_lastnameC4L3A4.tar.bz2` to receive credit.

Task #3 – Use the “Support forum

Refer to all previous “Week’s Overview PDFs” for detailed instructions applying to all discussion forums assignments.

PA #8 : Form – Advantage of Networking Printing (C4L3F1)

What are the advantages of network printing?

What other modern options are there for network print servers other than CUPS?

Respond to these questions and then add to the posts of two of your classmates.

Post internet links to support your answers.

Task #4 – Graded quizzes

Refer to all previous “Week’s Overview PDFs” and “ALL PREVIOUS WEEK’s Overview PDF” for detailed instructions applying to all graded quizzes.