

Week #7 – Software Packages

Overview of the week's objectives

This week's modules will explore software package management in Linux. As a Linux System Administrator, you will be adding, and removing software frequently to keep the system updated and to do maintenance. Linux uses a package management system to verify and manage software. You will learn how to perform elementary software package management tasks. Additionally, you will go further and learn to manually modify and build an application from source files.

TODO List

Please refer to all previous "Week's Overview PDFs" for details / advice relating to, or concerning, 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	O1L8 O2L6 O2L8	Studying Guides & Videos	2		
Practice Assignments	O1L8-PQ O2L6-PQ O2L8-PQ	Taking Practice Quizzes	1		
	W7-PA	Working on PAs & Participating to PA forums	5		
Graded Assignments	W7-GQ	Taking Graded Quiz	1		2
	W7-DF	Participating to Discussion forums	3		1
			12		3

Task #1 – Study & Practice

Refer to “Week #2’s Overview PDF” and/or 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 “Week #2’s Overview PDF” and/or all previous “Week’s Overview PDFs” for detailed instructions applying to all Practice Assignments.

Question #1

Use the Synaptic Package manager to check what version of NMAP is available for installation. Go to the NMAP website at www.nmap.org and research the most current version available for Linux/Ubuntu. How does this version compare to what is available via the Synaptic Package Manager?

Question #2

Download NMAP source using **apt-get**. Open and view the contents of the “package” to read the readme file. Download the dependencies required by NMAP.

Question #3

Configure, make, and install the NMAP source code. Test it by running it on your local host (ip address 127.0.0.1).

Task #3 – Discussion Forums

Refer to “Week #2’s Overview PDF” and/or all previous “Week’s Overview PDFs” for detailed instructions applying to all discussion forums assignments.

Topic #1 – W7DF – Linux Software Packages Formats

Different Linux distributions use different software packages formats. Select one and provide a summary of its specificities, advantages, limits, the distributions using it, along with the available tools to manage it.

Task #4 – Graded quizzes

Refer to “Week #2’s Overview PDF” and/or all previous “Week’s Overview PDFs” for detailed instructions applying to all graded quizzes.

