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| Instructor | Dr. Juan Carlos Galán Hernández | Term | Spring 2017 |
| Course | Network and Server Administration | Code | LIS4091 |

1 Purpose

This document describes the content and activities for Weeks 10 and 11 of the course **Network and Server Administration** with code **LIS4091**.

2 Instructor-led Training Activities

1. Continue with the installation of Arch Linux. This week, arch linux installation continues:
 - Configure the network
 - Review the needed packages for development environment

3 Self-paced Learning Activities

Available material:

1. File System

- http://www.tldp.org/LDP/intro-linux/html/sect_03_01.html
- <http://unix.stackexchange.com/questions/4186/what-is-usr-local-bin#4187>

2. User management

- https://access.redhat.com/documentation/en-US/Red_Hat_Enterprise_Linux/6/html/Deployment_Guide/ch-Managing_Users_and_Groups.html
- http://www.comptechdoc.org/os/linux/commands/linux_cruserman.html

3. Permissions

- <https://www.linux.com/learn/understanding-linux-file-permissions>
- <https://www.linux.com/learn/how-manage-file-and-folder-permissions-linux>

4. Installation

- <https://www.linux.com/blog/how-install-software-linux-introduction>
- <https://wiki.archlinux.org/index.php/Pacman>
- <https://www.cs.duke.edu/courses/spring04/cps108/resources/makefiles/sample.html>
- <http://www.techrepublic.com/article/linux-basics-installing-an-application-from-it>

5. Resource Administration

- <http://www.tldp.org/LDP/sag/html/system-monitoring.html>

6. What is RAID?

- <https://youtu.be/NqozAmsUsWI>

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4 Assignment: Installing Linux

1. Install a linux distribution on a virtual appliance with the following characteristics:
 - Must be one of the following distributions: Gentoo, Arch Linux, LFS.
 - It must have the following partitions:
 - home
 - swap
 - boot
 - It must have one NAT network interface with functional Internet
 - It must have at least one normal user with wheel privileges (SUDO)

5 Assessment

1. Grading

$$grade = \begin{cases} x & \text{if } x \leq 100 \text{ where } x = \frac{A+2B+3C}{18} \times 100 \\ 100 & \text{otherwise.} \end{cases} \quad (1)$$

(2)

2. Assesment Reference.

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| | 1. Unnacceptable | 2. Basic | 3. Proficient | 4. Exceed Expectations | 5. Distinguished |
|-----------------------------|---|--|--|---|---|
| A. Due Date | Sent one week later. | Sent three days later. | Sent on time. | Sent two days before. | Sent four days before. |
| C. Completion | <i>Manual</i> steps only covers very few key parts of the installation. The operating system is not bootable after following <i>Manual's</i> steps. | <i>Manual</i> steps only covers some key parts of the installation. The operating system is bootable after following <i>Manual's</i> steps but has no configuration. | <i>Manual</i> steps only covers all key parts of the installation. The operating system is fully functional and most basic configuration can be realized with <i>Manual's</i> steps. | <i>Manual</i> steps are clear and complete. The operating system is fully functional and most basic configuration can be realized following <i>Manual's</i> steps. <i>Manual's</i> steps include network configuration. | <i>Manual</i> steps are exceptionally clear and complete. The operating system is fully functional and most basic configuration can be realized following <i>Manual's</i> steps. <i>Manual's</i> steps include network configuration and XWindow configuration. |
| B. Quality of the response. | Answers cover less than 30% of the tests. | Answers cover less than 50% of the test. | Answers cover less than 80% of the tests. | Answers cover less than 90% and at least one problem with medium difficulty was sent. | Answers cover 100% and at least one problem with medium difficulty was sent. |