SIT226 Cloud Automation Technologies

Pass Task 1.1P

Linux Basics

Background and Aims

In attempting this unit, you are required to complete work requiring knowledge of the Linux operating system and its command line interface. This week's practical prepares you for these activities by building a basic level of knowledge for working in Linux. The purpose of this task is to then verify what you have learned in this area.

Get Prepared

You first need to gain access to the Linux environment we will be using throughout the trimester. Instructions and videos explaining how to do can be found in "Week 0" in the Unit Site in CloudDeakin.

The second step is to complete the "Lab 01. Linux Basics" activity found in this week's content. Make sure you take the time to learn this information properly, which is needed both for the quiz below but for the remainder of the trimester where you will rely on this knowledge. Take notes that you can refer back to, undertake your own research, and ask questions of your tutor if you don't understand something.

Note: You can use the pre-built VM available in the School's VMLab system for this task (see Week 0 content), however you will need your own VM if are aiming for a grade above credit.

Complete the Task

Page Limit: as per below, must be formatted reasonably, e.g., 2cm margins, 11 or 12 point font, appropriate headings/spacing, etc.

1. Reflect on the content for this week. In ½-¾ page, identify the most important lessons/topics this week relevant to your future studies/career and explain why they are the most important. Note: Do not present/explain topics, you are explaining why the things you learned are important!
2. Provide one or more screenshots for each activity, demonstrating that you have completed the lab session this week and briefly explain what is shown in each screenshot (one or two short sentences each).
3. (After completing the lab) Complete the Linux Basics quiz on the Unit Site in CloudDeakin. Provide a screenshot of your final mark (including the indication of the quiz name). If you passed, only the screenshot is required. If you were unable to achieve the required mark (after all attempts), in approximately ½ page explain the areas of knowledge you were lacking in, the actions you took to address these knowledge gaps, and what you have learned since completing the quiz. Note: the link the can be found either in this week's resources or in the menu at the top of the page (click Assessment, then select Quizzes). Note that this quiz has no time limit and you have three attempts, however you must achieve a mark of 70% or higher (see note below).

Submit Your Task

Prepare your submission using the word processor of your choice and submit a PDF to OnTrack.

Taking it Further (Optional)

If you intend to pursue a career in Information Technology, it is highly likely at some point you will require a sound knowledge of Linux. Linux itself is a member of a family of operating systems that began with the UNIX operating system, developed by AT&T Bell Labs. Other well-known variants include BSD (various), HP-UX, IBM AIX, and Oracle Solaris. Apple's macOS is also usually considered a UNIX (since macOS X).

Regardless of any pre-existing knowledge you have, you should continue building a strong skill set in working with UNIX operating systems. There are many resources available that can help you build this skill set, including many free training courses such as those available via LinkedIn Learning (https://www.linkedin.com/learning/). There are also a number of free training videos available on public sites such as YouTube or Vimeo. These are particularly useful if you are looking for something focused on an individual topic, however, there are more general videos/instructions available also.

You may also wish to review some of the certifications available, such as:

- CompTIA Linux+ certification (https://www.comptia.org/certifications/linux);
- The Linux Foundation's various certifications (https://training.linuxfoundation.org/full-catalog/?_sft_product_type=certification);
- Linux Professional Institute's various certifications (https://www.lpi.org/our-certifications/summary-of-certifications);
- RedHat's various certifications (https://www.redhat.com/en/services/certifications);
- And so on.