

Linux Administration and Security Assignment (CA1 – Part 1)

Applied Research on Root Access Recovery for Centos 7

(Due date/time: 7:00 pm, 9 Jan 2010 (Thursday))

Overview

You have just been attached to ABC Company for your internship program. On your first day of work, Harry, your company supervisor, give you the first task.

He asks you (and the other interns) to update the internal Centos 7 technical support documentation for the company.

You need to add in a new section in the technical support document to provide a step by step guide on Root Access Recovery in the case if the root password of a Centos 7 system is lost and the Grub menu is also protected by an unknown password.

Back in your year 1 LAS module at DISM, you have learned how to recover the Root access from a Centos 7 system, but that technique cannot apply as the Grub menu is now locked by an unknown password.

You need to do some applied research to complete this internship assignment.

Your Tasks

Either individually or in pairs:

1. Write a technical report/guide (you may write in point form or use screenshots, similar to the style of your ST2412 Practical Guide) to demonstrate the steps to resolve the problem listed above.
List down any assumptions you/your team made about the server.
2. You are required to create a demonstration video (a screencast of a successful recovery operation) and upload to YouTube to prove that your solution is working. The duration of the video is expected to be about 5 to 7 minutes.
3. An individual reflection (less than 1 page) regarding this assignment.

Hints on the individual reflection:

You may name a couple of positive and/or negative aspects about this assignment.

You may explain a couple of new things you have learnt from the assignment.

You may suggest how you can apply the knowhow you have learned from this assignment in the near future (at school or at work).

Marking Scheme

	Written Report	Marks
1	Report Structure & Completeness <ul style="list-style-type: none"> • Proper report layout. • Provide sufficient background, overview for the prerequisite of the proposed solution. • Provide strong support of Sources of information. 	10%
2	Readability & Correctness <ul style="list-style-type: none"> • Content Clarity. • Proper stepwise breakdown of the solution. • Using illustrations / diagrams effectively. • Correctness. 	20%
	YouTube Video	
3	Quality <ul style="list-style-type: none"> • Smoothness of the demonstration flow. • Interesting and engaging. • Using screencast, caption / sound / video editing techniques effectively. • Pace and duration. 	30%
4	Effectiveness and correctness <ul style="list-style-type: none"> • Proper introduction • Clearly showing the key steps of the solution. • Closely corresponding to the written reports. • Easy to follow and apply the solution. 	30%
	Individual Reflection	
5	Content and Learning Outcome <ul style="list-style-type: none"> • Insights and Understanding • Development of Ideas • Writing Quality 	10%
	Total	100%

Deliverables & Due Date

- A written report.
- An individual reflection for each member.
- A text file contains the URL to your uploaded youTube.

You may use a zip file to enclose all the above and submit to blackboard by

7:00 pm, 9 Jan 2020 (Thursday)

Take note of the “**SOC – Policy on Late Submission of Assignments**”. 50 marks will be deducted for every working day late submission. Assignments will not be accepted after more than 2 working days after the due date.

~ The End ~