

CSE321: ENTERPRISE NETWORK TECHNOLOGIES (Windows / Linux)

Assignment

		Due: Fr	riday 6 June2008	
	Name		Registration #	•
	Question 1: Introdu	etion to Linu	ux (20 marks)	
1.	Which of the following are N	NOT standard I	Linux shells (tick one or more):	
	\square bash	□ awk	□ csh	
	1	□ tcsh	\Box sh	
	\square ash	\square crash	\square zsh	
				[5 marks]
2.	What is the difference between	en the /etc/has	thre file and the hashre file?	
				[3 marks]
				[·]
3.	What is a run level? How ma	any run levels a	are there on a typical Linux system?	
				(2 1 1
				[2 marks]
4	Which of the following direct	etories are NO	T typically found on Linux systems:	
т.	□ /etc □ /mour			
	\Box /home \Box /var/le			
	\Box /lib \Box /temp	•		
	r			[5 marks]

5. What are the file permissions represented by each of the following octal modes (underline the

group – read/write/execute

group - read/write/execute

group – read/write/execute

group – read/write/execute

permissions that are granted):

user - read/write/execute

user – read/write/execute

user – read/write/execute

user – read/write/execute

755

555

660

644

[5 marks]

other - read/write/execute

other - read/write/execute

other - read/write/execute

other - read/write/execute

Question 2: Shell & Scripting (20 marks)

1.	What are two ways you can execute a shell script when you do not have execute access permission to the file containing the script?
2.	[3 marks] Can you execute a shell script if you do not have read access permission?
2.	Can you execute a shell script if you do not have read access permission:
	[2 mark]
3.	Write a shell script that displays the current date and time followed by the login ID of the current user, and also appends these details to the end of a file called '/tmp/logfile'.
	[5 marks]
4.	 Write a shell script that: a) Recursively scans all files and subdirectories from a user-specified path, and lists only those files that end in '.bak' or '.tmp'. b) Asks the user if they would like to delete the listed files, and deletes the files if
	requested.

[5 marks]

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Write a shell script that outputs the name of the current shell that is executing it.
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Question 3: Administration (20 marks)
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Describe the sequence of steps that you would take to <u>manually</u> create a new user account (e.g.
for user <i>alice</i>); this description must include the complete entry that is added to the passwd file for this new user.
Tot this new user.
[5 mar
The hashed login passwords are not stored in the /etc/passwd file. hich file are they stored in?
and the dre they stored in.
[1 ma] Thy are they not stored in /etc/passwd?
ny are they not stored in /etc/passwd:
•
Suppose that some applications are installed in the '/usr/local/bin/special' directory. Describe
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Suppose that some applications are installed in the '/usr/local/bin/special' directory. Describe
Suppose that some applications are installed in the '/usr/local/bin/special' directory. Describe what steps you would take to include this folder in the default program search path for all user
<u></u>

4. An administrator wants to copy a program from one Linux system to another. He copies the program from the first Linux system onto a USB disk and then copies the program from the USB disk into the '/bin' directory of the second Linux system. When the users try to run the

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What is the most likely reason for the error?	
	[5 mari
What command should be issued to fix the problem?	[3 mar
What command should be issued to fix the problem?	
	[2 mar

program, the shell shows an error message "Permission denied" and does not run the program, although users have read access to the program.