



LAB MANUAL



LINUX ESSENTIALS FOR CYBERSECURITY

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Linux Essentials for Cybersecurity Lab Manual

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PEARSON IT CERTIFICATION

Chapter 7

Managing User Accounts

These labs should be performed on the Ubuntu operating system that you installed in Chapter 1, “Distributions and Key Components.” Before you begin this lab, log in to the student account that you created during the installation process.

Lab 7.1 Managing User Accounts

STEP 1. Open a terminal window.

STEP 2. Execute the correct command to display user account information (including the login shell and home directory) for the bin account.

STEP 3. Execute the correct command to display user password information (including the encrypted password and password aging) for the bin account.

STEP 4. The command in step 3 should have failed. Execute the correct **su** command to change your account so the command from step 3 will be successful when executed.

STEP 5. Create a new user named jake and explicitly use options to create the home directory **/home/jake** for this user.

STEP 6. Set a password for the jake user to a password of your choosing.

STEP 7. Run the correct command to display the default values used when a new account is created.

STEP 8. Using the **less** command, display the file that contains the password aging defaults.

STEP 9. Using the **less** command, display the file that contains the default login shell.

STEP 10. Delete the jake user and his home directory, using a single command.

Lab 7.2 Securing User Accounts

WARNING With Ubuntu, some of the options for user account commands are different from the standard options provided in the book. For this lab you need to explore the documentation for the specific Ubuntu distro you installed to discover the correct answer.

Lab 7.3 Configuring *sudo*

Scenario: Allow the sue user the ability to use the **apt-get** command. Verify this ability by installing the joe package as the sue user.

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Chapter 8

Develop an Account Security Policy

These labs should be performed on the Kali operating system that you installed in Chapter 1, “Distributions and Key Components.” Before you begin this lab, log in to the student account that you created during the installation process.

Lab 8.1 Testing the Security of Accounts

Scenario: Create five user accounts, with a different password for each account. Make some of the passwords very simple, such as simple words, and some of the passwords more complex. Then run the johnny password attack tool on these new accounts and see which passwords were compromised by the tool.

This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across its entire width, providing a guide for handwriting or typing. The paper is otherwise completely empty, with no margins, text, or other markings.