Peer-Graded Final Project: Introduction

Congratulations! You have finished all the modules and completed a real-world practice project.

You will soon get to put your skills to the test by completing a peer-graded, hands-on lab as the main component of your final project.

To help you complete this hands-on lab, we have provided:

- A cumulative cheat sheet that covers the entire course, including any advanced concepts that you will encounter in the final project
- Sufficient hints and/or the required code snippets for you within each task as needed

Scenario

Imagine that you are a lead Linux developer at the top-tech company ABC International Inc. ABC currently suffers from a huge bottleneck: each day, interns must painstakingly access encrypted password files on core servers and back up any files that were updated within the last 24 hours. This process introduces human error, lowers security, and takes an unreasonable amount of work.

As one of ABC Inc.'s most trusted Linux developers, you have been tasked with creating a script called `backup.sh` which runs every day and automatically backs up any encrypted password files that have been updated in the past 24 hours.

Learning Objectives

By completing this final project, you will:

- Demonstrate your advanced shell scripting skills in a real-world scenario
- Apply the knowledge you've gained to reviewing and grading technical work submtted by your peers

Overview

Hands-on lab: Scheduled Backup Script

Instructions

Immediately following this reading, you will complete the hands-on lab portion of your final project where you will create a scheduled backup script.

Your work will be graded by your peers who are also completing this assignment within the same session. Likewise, as part of your final project requirements, you will also review the work done by your peers.

Deliverables

You will need to submit the following items for peer review:

- Screenshots clearly displaying both the code and the output for each task
- Your completed script file

Full details are provided for each task within the hands-on lab.

Grading criteria

There are a total of **20 points** to be earned for 17 tasks in this final project.
Your grade will be based on the following tasks within the hands-on lab:

- [Tasks 1-13]: Upload screenshot of sections from the backup.sh script displaying the correct code (**13 pts**: 1 pt for each of the 13 tasks)
- [Task 14]: Submit your completed `backup.sh` file (**1 pt**)
- [Task 15]: Upload screenshot showing executable permissions (**2 pts**)
- [Task 16]: Upload screenshot showing file named `backup-[TIMESTAMP].tar.gz` (**2 pts**)
- [Task 17]: Upload screenshot showing crontab schedule of once every day (**2 pts**)

How to submit

IMPORTANT: You will be prompted to save screenshots throughout the lab and to save your completed script at the end. These will be the files that you will upload during the **Project Submission** and **Peer Review** steps.

Please note that you must submit your screenshots in either JPEG or PNG format.

Discussion forum tab

You can chat with other learners taking this course using the **Discussion** tab near the top of this page.

My Submission tab

Once you are ready to submit your work for peer review, simply click on the **My Submission** tab and follow the instructions provided there. Good luck!

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