253-[LX]-Lab - [Challenge] Bash Shell Scripting

Challenge Lab: Bash Shell Scripting Exercise

> **Note**
>
> All labs rely on previous courseware and lab information.

Objectives

In this challenge, you will:

- Create a directory

Duration

This lab requires approximately **55 minutes** to complete.

AWS service restrictions

In this lab environment, access to AWS services and service actions might be restricted to the ones that you need to complete the lab instructions. You might encounter errors if you attempt to access other services or perform actions beyond the ones that this lab describes.

Accessing the AWS Management Console

1. At the top of these instructions, choose Start Lab to launch your lab.
   A **Start Lab** panel opens, and it displays the lab status.

   > **Tip**: If you need more time to complete the lab, choose the Start Lab button again to restart the timer for the environment.

2. Wait until you see the message *Lab status: ready*, then close the **Start Lab** panel by choosing the **X**.
3. At the top of these instructions, choose AWS.
   This opens the AWS Management Console in a new browser tab. The system will automatically log you in.

   > **Tip**: If a new browser tab does not open, a banner or icon is usually at the top of your browser with a message that your browser is preventing the site from opening pop-up windows. Choose the banner or icon and then choose **Allow pop ups**.

4. Arrange the AWS Management Console tab so that it displays along side these instructions. Ideally, you will be able to see both browser tabs at the same time so that you can follow the lab steps more easily.

Task 1: Use SSH to connect to an Amazon Linux EC2 instance

In this task, you will connect to a Amazon Linux EC2 instance. You will use an SSH utility to perform all of these operations. The following instructions vary slightly depending on whether you are using Windows or Mac/Linux.

Windows Users: Using SSH to Connect

💬 These instructions are specifically for Windows users. If you are using macOS or Linux, skip to the next section.

5. Select the Details drop-down menu above these instructions you are currently reading, and then select Show. A Credentials window will be presented.
6. Select the **Download PPK** button and save the **labsuser.ppk** file.
   Typically your browser will save it to the Downloads directory.
7. Make a note of the **PublicIP** address.
8. Then exit the Details panel by selecting the **X**.
9. Download **PuTTY** to SSH into the Amazon EC2 instance. If you do not have PuTTY installed on your computer, download it here.
10. Open **putty.exe**
11. Configure your PuTTY session by following the directions in the following link: Connect to your Linux instance using PuTTY

Your Challenge

21. Write a Bash script based on the following requirements:
    - Creates 25 empty (0 KB) files. (Hint: Use the **touch** command.)
    - The file names should be **<yourName><number>**, **<yourName><number+1>**, **<yourName><number+2>**, and so on.
    - Design the script so that each time you run it, it creates the next batch of 25 files with increasing numbers starting with the last or maximum number that already exists.
    - Do not hard code these numbers. You need to generate them by using automation.
22. Test the script. Display a long list of the directory and its contents to validate that the script created the expected files.

Lab Complete 🎓

🏁 Congratulations! You have completed the lab.

23. Select End Lab at the top of this page and then select **Yes** to confirm that you want to end the lab.
    A panel will appear, indicating that "DELETE has been initiated... You may close this message box now."
24. Select the **X** in the top right corner to close the panel.