Start lab 01:30:00

Fix errors with a crashing script

1 hour 30 minutes Free ★★★★★

Fix errors with a crashing script

Introduction

You're an IT professional who is in charge of the deployment and maintenance of a fleet of Linux workstations. Your company has a number of users deployed on all machines in your fleet is throwing an error on a number of these machines. You haven't written the software and don't have access to the source code. You'll need to troubleshoot the environment where the software is running in order to make sure it runs as intended.

What you'll do:

- Understand the error message
- Use the error message to find what needs to fix it
- Understand what to do when you can't modify the program that's throwing errors

You'll have 90 minutes to complete the lab.

Start the lab

You'll need to start the lab before you can access the materials in the virtual machine VM. To do this, click the green "Start Lab" button at the top of the screen.

Note: Pick the lab you are going to access the lab **VM** through your **Qwiklabs Student** and not your **Google Cloudskills Student (GSP Console** button is not available for this lab).

Start Lab

After you click the "Start Lab" button, you will see the lab's connection details and a timer that tracks time of your session. You should have a screen that looks like this:

Internal Platform

ZONE: us-east1-b

username

student-00000@qwiklabs.net

password

Download PPK

Download PPS

Accessing the virtual machine

Please find one of the three relevant options below based on your device's operating system.

Note: Working with Qwiklabs may be similar to the work you'd perform as an IT professional using a cloud-based virtual machine. Qwiklabs uses technology that requires multiple steps to access, and perhaps healthy doses of patience and persistence!. You'll also be using **SSH** to enter the VM, a critical skill in IT. Support that you'll be able to practice through the lab.

Option 1: Windows Users: Connecting to your VM

In this section, you will use the PuTTY Secure Shell (SSH) client and your lab's External IP address to connect.

Download your PPS Key file

You can download the VM's private key file in the PuTTY compatible PPK format from the Qwiklabs Start Lab page. Click on **Download PPK**.

Download PEM

Download PPK

Connect to your VM using SSH and PuTTY

1. You can download Putty from here.
2. In the **Host Name (or IP address)** box, enter username@external_ip_address.

Note: Replace **username** and **external_ip_address** with values provided in the lab.

3. In the **Connection** list, expand **SSH**.
4. Then expand **Auth** (no clicking on it).
5. Now, select the **Credentials** from the **Auth** list.
6. In the **Private key file for authentication** box, browse to the PPK file that you downloaded and double-click it.
7. Click on the **Open** button.

Note: The PPK file is the imported into PuTTY tool using the Browse option in the lab. It is should not be opened directly but only to be used in PuTTY.

8. Click the **Open** button.
9. Enter the **Yes** to the prompt to allow a first connection to the remote Server service. Because you are prompted to log-in, you will be authenticated to connect with ssh.

Common Issues:

If PuTTY fails to connect to your Linux VM, verify that:

- You entered **username@ x.x.x.x** as **Host name** in PuTTY
- You downloaded the fresh new PPK file for the lab from Qwiklabs
- You are using the downloaded PPK file in PuTTY

Option 2: OSX and Linux users: Connecting to your VM via SSH

Download your SSH private key file.

You can download the private key file in PEM format from the Qwiklabs Start Lab page. Click on **Download PEM**.

Download PEM

Download PPK

Connect to your VM via the local Terminal application

A **terminal** is a program which provides a **text-based interface for typing commands**. Here you will use your terminal as an SSH client to connect with lab provided Linux VM.

1. Open the Terminal application.
   - To open the terminal in Linux use the shortcut key **Ctrl+Alt+t**
   - To open terminal in Mac OSX: enter **cmd + space** and search for **terminal**
2. Enter the following commands.

Note: Substitute the **path/filename for the PEM** file you downloaded, **username** and **External IP address**

You will most likely find the PEM file in **Downloads**. If you have not changed the download settings of your system, then the path of the PEM key will be **~/Downloads/qwiklabs-0000-00000.pem**

```
chmod 400 ~/Downloads/qwiklabs-0000-00000.pem

ssh -i ~/Downloads/qwiklabs-0000-00000.pem username@[ip.ip.ip.ip]
```

Terminal
Terminal
Terminal