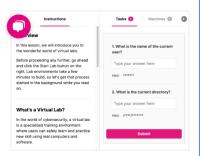




The Machines tab is also home to the **Clipboard**, where you can paste text and send it to your virtual machine's clipboard - allowing you to copy and paste text between your local computer and the remote virtual machine.



As you work through the instructions in a virtual lab, you may find it useful to see both the Instructions and Tasks at the same time. Provided you have a sufficiently large monitor (at least 15 inches), you can enlarge the side pane to show two tabs at once by clicking the **arrow** icon.



Note: Speaking of large monitors – remember, you're going to be running full Linux and Windows virtual machines inside of your browser. We recommend using a screen that's 15 inches or larger – although standard 13-inch laptops are fine too, as long as you enter Full Screen Mode in your browser. Large tablets are fine too, as long as you have a keyboard and mouse. No smartphones though. (Trust us – you don't want to navigate the command line using your smartphone's keyboard.)

Lab Formats

Most of the labs that you'll encounter on Cybrary follow a uniform structure consisting of three lessons:

- Core Concepts: This is a reading-based lesson designed equip you with the foundational theory that you'll to understand the hands-on portion of the lab.
- Guided Exercise: This is the lab portion of the lab. You'll
 follow step-by-step instructions across one or more
 parts and answer questions along the way. Most of the
 questions will follow a "capture the flag" style format,
 where "flag" refers to a piece of information that you'll
 discover within the lab environment and use to answer
 one of the questions on the Tasks tab.
- Challenge Exercise: This is your opportunity to prove you've truly mastered the skills introduced in the Guided Exercise. In this lesson, you'll get a lab environment, and you'll get Tasks, but you won't get Instructions not detailed ones anyways. We'll give you just enough information to point you in the right direction, and you'll have to figure out the rest on your own.

Note: Challenge Exercises are optional, by the way. You don't need to complete the Challenge Exercise to get 100% progress on the Virtual Lab, but we strongly recommend you try them once you're feeling confident. We'll give you gotte Vill

In addition to Cybrary's standard lab format, you will also

- Challenges: These are standalone versions of the optional Challenge Exercises at the end of standard labs. If you're enrolled in a Career Path or Skill Path, you'll need to complete some number of these to receive your milestone badge for the Practice path.
- Skill Checks: These are timed challenges that appear at the end of most Assessments. Think of these as your exams! If you can pass these, we think you have a ty decent grasp of the corresponding Topic.
- Third-Party Virtual Labs: Before we started building our own labs, Cybrary relied on integrating labs from trusted learning partners. In many cases, we still do! For content on Cloud Infrastructure and other adiacent IT topics, we

recommend the extensive catalog offered by our friends at Skillable. When enrolling in one of these labs, you'll be linked out to Skillable's lab portal, where you'll launch the lab using their lab infrastructure.

Best Practices

Just like computer systems in the real world, virtual lab environments are error-prone and may sometimes behave in unexpected ways. To keep you grounded on your learning journey, here are some insights and tips to keep in mind.

- Lab connections may get interrupted. Although it may seem like it's right in front of you, there's a lot of distance and complexity between that virtual machine and your local computer. Sometimes things happen with your local network, your ISP, AWS, or our lab platform, and you might lose your connection to the lab. If this happens, don't panic! Just refresh your browser and click Start Lab again. As long as your lab environment is still intact, we will reconnect to you.
- Labs have time limits. While we would love to keep all of your labs running indefinitely, AWS costs money!
 Accordingly, we have configured our labs to matically shut down after 2-3 hours (2 for shorter 3, 3 for longer labs). That said, we've made a point of

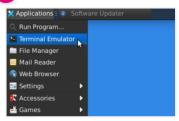
, 3 for longer labs). That said, we've made a point o making our lab exercises as compact as possible, and most can be completed in less than half of that maximum time limit.

- Labs will automatically shut down if you close them.
 You'll be prompted with a confirmation message first just in case you click Exit by accident.
- You're a human being learning a new skill, and human beings make mistakes. As you work through a Guided Exercise, you might find yourself wondering why the results on the screen don't match the instructions. First things first, take a breath then retrace your steps. Did you enter the command exactly as it appears in the Instructions? Did you follow all of the steps leading up to the current one? If you're reasonably sure you did everything right, this might be a good opportunity to reach out to the community in the Cybrary Forums. That said...
- We're humans too! If you think you've found an error in one of our lab guides, please post in Forums and/or contact our Support Team. We'll look into it and make a correction if necessary.

Sample Lab

In this part of the lab, you will practice following some simple instructions - similar to what you'll see in a real lab.

1. From the taskbar at the top of the screen, click lications > Terminal Emulator to open a terminal iow.



2. At the terminal prompt, type **whoami** and press Enter to display the name of the current user.



Take note of the **current user**. You will need this information to answer one of the questions on the **Tasks** tab.

3. At the terminal prompt, type **pwd** and press Enter to display the name of the current directory.



Take note of the current directory. You will need this

information to answer one of the questions on the **rasks** tab.

4. At the terminal prompt, type **exit** and press Enter to close the terminal window.

Note: Is your answer getting rejected? Check out the Hint beneath the question. The Hint shows a redacted copy of the correct answer, sometimes with select characters revealed to point you in the right direction.

Summary

In this lesson, you learned how to navigate the Cybrary Lab Interface and follow simple lab instructions on a virtual machine. Be sure to answer the questions on the Tasks tab, then continue to the next lesson, where we will discuss prary helps track your progress and prove that ready for the job!