

Revision Date: August 30, 2026

Background: Effective with the 2023SU semester, the Red Hat Academy Learning Portal (RHALP) Lab Environment no longer supports connecting to the internet. This is a policy change at Red Hat, not a technical matter. As a result, students in IST191 and IST191 will have to change the way they submit labs in Blackboard Ultra. Instead of creating text files with the requested command output in each lab, students will have to use a screen snipping tool to capture the requested lab command output and submit it to the lab assignment in Blackboard.

Screen Snipping Tool Suggestions: Students in IST190 and IST191 may use any screen snipping tool they prefer. Students will have to submit the lab command output as a PNG image file. Here are three suggestions for snipping tools.

Snip and Sketch in Windows 10 and 11: This tool is the more advanced version of the Snipping Tool from Windows 7. Snip and Sketch is a free tool and is well documented on the internet. Here is a video that explains how it works: <https://youtu.be/OO0aS7gh3Rg>. Students should use the default rectangle mode and save the command output lines including the command prompts at the beginning and end of the command as a PNG image file. Do NOT save and submit the whole screen. Only submit the output lines as specified in the Blackboard lab instructions. Follow the directions below.

Snipping Tool in Windows 10: This is the original Snipping Tool that was introduced years ago. It works great and is free in Windows 10. The Windows Snipping Tool is also well documented on the internet. Here is another YouTube video that shows you how it works: <https://youtu.be/5spHoFKPDw>. Students should save the command output lines including the command prompts at the beginning and end of the command as a PNG image file. Do NOT save and submit the whole screen. Only submit the output lines as specified in the Blackboard lab instructions. Follow the directions below.

Snagit from TechSmith: This is a full featured screen capturing tool that creates images and videos. This tool is NOT free. Your instructor has been using it for years. Snagit is suggested, but NOT required. For more information go to this link: <https://www.techsmith.com/screen-capture.html>.

How to Submit Labs in IST191:

1. Open Blackboard on your local computer, go to IST191-Wxx > Unit x
2. Read the instructions in Blackboard for the labs to be completed
3. Log in to RHALP at <https://beausanders.org/rha>
4. Go to the RHALP Guided Exercises and Labs that are to be completed and read the instructions
5. Go to the "Lab Environment" tab in RHALP and complete the labs as instructed
6. Once you have completed the command(s) as specified in each lab in Blackboard, use your screen snipping tool in Windows to select and save the output lines including the command line showing how you entered the command, the output lines from the command, and the command prompt at the end of the output. See the example below.
7. The naming convention should be *LastnameFirstname_Labxx-x.PNG*; for example:
SandersBeau_Lab03-1.PNG

IST191: Linux Essentials

How to Submit Labs in IST191

8. Repeat steps 4, 5, 6, and 7 for the labs you want to submit
9. On your local computer go back to IST191 in Blackboard and attach the PNG image files (.PNG) to the correct labs in our class and submit them for grading
10. The lab output image file should include a complete command prompt showing the command to be executed as specified in Blackboard, the output from the command, and a second command prompt at the end that shows the command ran to completion

Example lab image file (.PNG) output (including typos and wrong commands):

```
[student@servera work]$ ls -la /home/student/
total 16
drwx-----. 9 student student 179 May 28 13:15 .
drwxr-xr-x. 4 root    root    35 May  7 2020 ..
-rw-----. 1 student student 187 Sep  1 2020 .bash_history
-rw-r--r--. 1 student student  18 Aug 30 2019 .bash_logout
-rw-r--r--. 1 student student 141 Aug 30 2019 .bash_profile
-rw-r--r--. 1 student student 312 Aug 30 2019 .bashrc
drwxrwxr-x. 2 student student 108 May 28 13:21 family
drwxrwxr-x. 2 student student 108 May 28 13:20 friends
drwxrwxr-x. 2 student student 108 May 28 13:13 Music
drwxrwxr-x. 2 student student 108 May 28 13:14 Pictures
drwx-----. 2 student student  25 Sep  1 2020 .ssh
drwxrwxr-x. 2 student student 108 May 28 13:14 Videos
drwxrwxr-x. 2 student student 108 May 28 13:24 work
[student@servera work]$
```

Let me know if you have any questions.

-Beau Sanders

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