

About Router eSIM™ Student Version 1.1: Instructor FAQ

Changes in Router eSIM™ Student Version 1.1

Router eSIM™ Changes:

1. The output of `show protocols` now also displays subnet mask information.
2. When using the telnet feature, the prompt did not change to the hostname of the router. Instead, the hostname was erroneously returned as "Lab_A." This IP host problem has been corrected.
3. The numeric keypad functionality has now been implemented to work on all Windows and Macintosh platforms.
4. The "show interface" command will now display the description that you configured on an interface.
5. A problem with login on telnet sessions has been fixed. By default, the login function should be off and will allow a telnet session without a password being set.
6. Previously, Router eSIM was checking the VTY password for console access which caused a login problem when you only configured the password and login function for "line con 0," and not for "vty 0 4." This has been corrected.

FAQ Changes:

1. The following frequently asked questions were added to the FAQ:
 - Why do I get this error message when I run Router eSIM™ Student Version? (Question 2)
 - Why does the Router eSIM™ Student Version only use the US keyboard layout? (Question 3)
 - Why do I get an invalid input message when I try to enter the command interface serial 1? (Question 22)
 - Are the times that are returned in the ping and trace route command accurate? (Question 30)
2. The following frequently asked question was removed from the FAQ:
 - How do the Router eSIM™ Student Version commands differ from those used on routers?

While the correct command is "clock rate 56000", "clockrate 56000" is also accepted by Cisco IOS. Router eSIM™ now supports both commands.

What is Router eSIM™ Student Version?

Router eSIM™ Student Version is a router simulator that helps students learn router configurations and troubleshoot networking problems. It allows a student to configure five separate routers using basic “housekeeping,” interface, and routing protocol commands. As routers are configured, students can test their configurations using such commands as “Show Run,” “Show IP Route,” “Ping,” “Trace,” and “Telnet.” For example, the simulator will generate information in the routing table showing the paths that data will travel between routers if the routers are configured correctly. Commands that test whether these connections are established, such as “Ping” or “Trace”, will fail if the routers are configured incorrectly. Thus, even when students lack physical access to routers, they can gain valuable experience working with router commands.

May I distribute Router eSIM™ Student Version file to my students for their personal use?

Yes! Router eSIM™ Student Version is free to Cisco Academy Students through the Cisco Networking Academy Program. Before downloading Router eSIM™ Student Version from the website, you are required to agree to the terms and conditions “User Agreement” that define proper use of this software.

How should I distribute Router eSIM™ Student Version?

Make sure to distribute to your students the complete .zip file, which includes the PDF version of the FAQ.

Why should I use Router eSIM™ Student Version?

Router eSIM™ Student Version will greatly benefit your students. This tool facilitates the learning of IOS by allowing students to learn new commands or practice previously learned commands when the router lab is unavailable to them.

How should I use Router eSIM™ Student Version in my class?

- Use it to help solve equipment contention problems.
- Use it as a mandatory pre-lab exercise.
- Use it as formative assessment.
- Use it for student self-assessment.
- Use it as practice for skills exams.
- Use it as homework.

- Use it for review in semesters 2, 3, and 4.
- Use it as an exploratory activity.
- Use it in friendly classroom games.

How can I use Router eSIM™ Student Version for skills exams?

Imagine you are nearing the end of a semester 2 class and would like to test the students' skills by bringing up the 5-router network. You have 30 students in your class but only 5 routers.

The Router eSIM™ Student Version can be used in several ways. First of all, it can be used to prepare students for the exam by allowing them to practice commands and configure the simulated routers. This practice can be done either in class or be assigned as homework. By using the simulator first, students will be more familiar with the type of commands possible and how they work before they are tested on the actual routers. Secondly, the simulator can be used during the skills exam. While you are helping a group of students in the router lab, the rest of the students can use the router simulator to practice commands or learn new ones.

Is it possible to set up my own router scenarios using Router eSIM™ Student Version?

At this time, it is not possible to create your own router scenarios. To successfully use Router eSIM™ Student Version, you must use the IP addresses and other settings used in the standard 5-router lab topology.

Does Router eSIM™ Student Version replace Labs or Lab (Skills) exams?

No. The goal of the Academy program remains to teach students to design, install, operate, and troubleshoot networks. There is no substitute for actual lab experience when educating future networking professionals.

Will there be future versions of Router eSIM™ Student Version?

Yes. Cisco Worldwide Education is working on numerous extensions of this product.

What is Flash?

Macromedia Flash 5 allows Cisco Worldwide Education Curriculum Development to create engaging and effective instructional experiences while delivering high-impact animation, sound, interactivity, and graphics. We currently use three types of Flash IOS activities: the syntax activities (short drills), lab activities (step-by-step Flash versions of the hands-on labs), and the Router eSIM™ Student Version (full 5-router network simulation environment).

Where can I send comments, questions, and concerns regarding Router eSIM™ Student Version?

You can send comments, questions, and concerns to eSIM-quality@cisco.com, or you can read and post comments to the support forum at http://cisco.netacad.net/cnacs/prot-bin/forum_get?esim+current+FT+index.html.