

Lesson Plan 6 | Form 2 | Assessment of Networking Fundamentals

Objective

Students will be graded on their knowledge of the fundamentals of networking introduced so far.

Warm-up

None.

Presentation (requires local wireless network)

Prior to class, place a text file in each student's directory containing test questions on the networking information presented in previous Form 2 lessons.

For the first 15 minutes of class, remind/introduce students to the SAMBA share on the central gateway/server. Show them how to access and browse through the directories and files.

For the remainder of class, have them open the test file in their personal directory and explain that they are to write their answers directly in the file in the space provided, then save when they are finished. It's a good idea to have each student raise their hand so you can check that the file has been saved prior to dismissing them from class.

See the end of this lesson plan for the test used in January 2017.

Guided Practice

None.

Independent Practice

None.

Closing

None.

In Hindsight

01/30/2017: This worked without any issues, all students were able to load their test file and save to their shared directory. I think this vastly simplifies the delivery of assessments (no paper required) and also their submission and grading. After students finished, I allowed them to do anything on the computer as long as sound was off until all students completed the test. Many clicked on the KhanAcademy link on their desktop, which took them to the KALite server running on the network gateway, and used the time to view the videos and take the quizzes on the server.

Test Questions

(1 pt) Give an example of an IP address.

(1 pt) What do the letters “IP” stand for?

(1 pt) Write the terminal command that tells us all of the IP addresses assigned to a computer.

(1 pt) Give an example of a DNS hostname.

(1 pt) What do the letters “DNS” stand for?

(1 pt) Write the terminal command that converts a DNS hostname into an IP address.

(1 pt) Which special IP address does every computer use to talk with itself?

(1 pt) Which special IP address allows us to broadcast a message to every computer on the network?

(1 pt) What terminal command can we use to read about how to use other computer programs? (i.e., their manuals)

(1 pt) What terminal command can we use to send small messages to other computers to see if they are on the network (hint: similar to a “poke”).