Engage Me and I Learn: Bring Your Technical Content to Life with Interactivity

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ATE PI Conference

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Meet the Team

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Agenda

• Introductions

• Tools
  – BookWidgets
  – Tumult Hype
  – Coding in HTML

• Demo

• Questions
“Tell me and I forget.
Teach me and I remember.
Engage me and I learn.”

-Chinese Proverb
A “Muddiest Point”, or difficult technical concept for students to understand, in a traditional print textbook versus E-MATE interactive learning content.

Chapter 3: Class of Service
By default, devices running the Junos operating system treat all transit traffic equally. The software handles all traffic entering the device on a first-come, first-served basis. The device mixes together all traffic transiting the system and places it in the same input and output queues, which means the traffic is subject to the same potential for delays and drops. We refer to this method as best-effort traffic processing.

The CoS features available to devices running the Junos OS allow differentiated services to network traffic where best-effort traffic processing is insufficient. Several components to the CoS tool kit exist. First, tools exist that allow the system to place traffic into different categories (named forwarding classes) where the system provides the same services. Second, certain tools exist that allow the system to mark packets with their category so that the system can then use them to categorize them.

CoS allows you to treat traffic differently to guarantee, low latency, low packet loss, and other characteristics of traffic. Consequently, you expect certain classes of traffic to perform better. However, it cannot guarantee a performance latency beyond the minimum limits imposed by the speed of light. CoS cannot eliminate congestion within a network. CoS can, however, help you control how this congestion affects different types of traffic.
A student said that it was very useful to “manipulate the schematics.” He gave an example: “constructive interference, that was one I was scratching my head over. Then I used the interactive diagram and manipulated it – and that clarified it!”
What you’ll see today

What’s POSSIBLE!
Demo
ABOUT E-MATE

E-MATE, E-books and Mobile Apps for Technician Education, is a National Science Foundation (NSF) ATE project supported under Grant No. DUE 1205113.

When college students are forced to make a choice between the purchase of a new mobile device, such as a tablet or phone, and textbooks, whose prices continue to increase, no one should be surprised that most of these students will choose the mobile device. The Brookdale Community College E-MATE project team, working in collaboration with the two ATE National Centers of Excellence and a number of ATE projects, plans to develop educational e-books and mobile applications for technician education. At the core of the project will be the development a generic framework of templates, sample code, documentation and other material that will be shared with other faculty and institutions to enable them to create their own e-books and mobile apps.
QUESTIONS?
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