

**EXERCISE:**

Create a NetLinux module to interface with a Roku 2 set top box

SCENARIO:

Back in the lobby area of our client, they have had some marketing and promotional video material developed and they were given this content on a USB stick. They need a way to get this content up on all the screens in the lobby. The onsite A/V manager has provided us with a Roku 2 for this purpose and now they want to add control of that device to the touch panel.

OBJECTIVES:

- Use existing code from the IP lesson and move that code into a module
- When you instantiate the module, pass in the virtual device and the real device along with the IP Address and IP Port number.
- The module API should follow the SNAPi model, including the following:
 - o DEVICE_COMMUNICATING (251) and DATA_INITIALIZED (252) channels.
 - o DEBUG-<debugLevel> and REINIT commands.
 - o LAUNCH_APP-<appId> command to the virtual device
 - o ?APPS command to the virtual device
 - Response = APP-<appId>,<appName>
 - o ?ACTIVE_APP command to the virtual device
 - Response = ACTIVE_APP-<appId>

