ATC328/329 Lab Infrastructure Overview V2.0

- The Lab consists of five Enclosures – RED, GREEN, BLUE, **YELLOW** and BLACK.

- Each Enclosure consists of five Kits – WHITE, PURPLE, GREEN, RED and **YELLOW**.

- Each Kit consists of four ISR 4321 routers, two 3650 switches and two 2960 switches.

- For each desktop's patch panel there are three RJ45 interfaces (which are connected to your PC's NICs):

    - One interface connects (yellow locked-in cable) via the Virtual Area Network (VAN) to any kit in the lab. The mapping is done using the Virtual Machine Launcher. On a router it will map to Fa0/0, on a switch it will map to Fa0/24.

    - Two interfaces are coloured (e.g. RED and BLACK) and have a patch panel number, indicating they connect to a specific coloured enclosure and patch panel port. A UTP cable can be used to patch from the patch panel in that enclosure to any router or switch in the enclosure.

- The following figure illustrates the VAN and Ethernet connections from two virtual PCs to equipment in the rack:
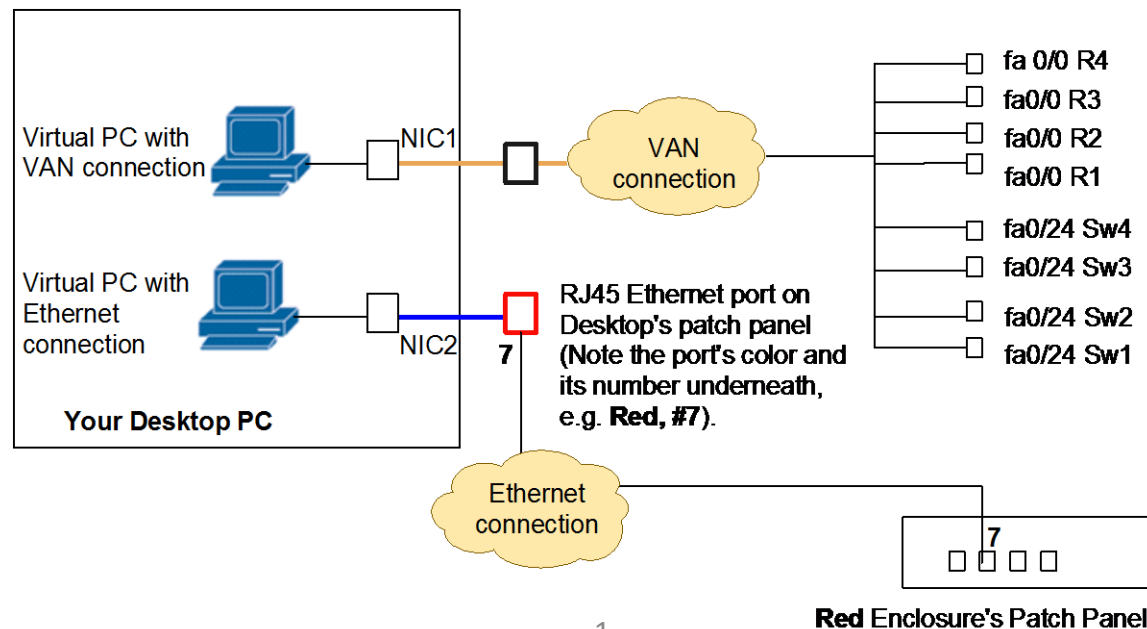
Lab Infrastructure Overview

- Booking a Kit
  - Open netlab.ict.swin.edu.au in a web browser
  - Select Netlab Server for ATC 329 lab
  - Login.
  - Check the colour of RJ45 interfaces on the desk's patch panel e.g. BLUE and GREEN mean you can book a kit in either the BLUE or GREEN Enclosure
  - Show kits/ make the booking for 4 hours.
  - In the equipment row, there are icons for power button, and console monitor. The native consoles (using putty) are the most convenient to use.
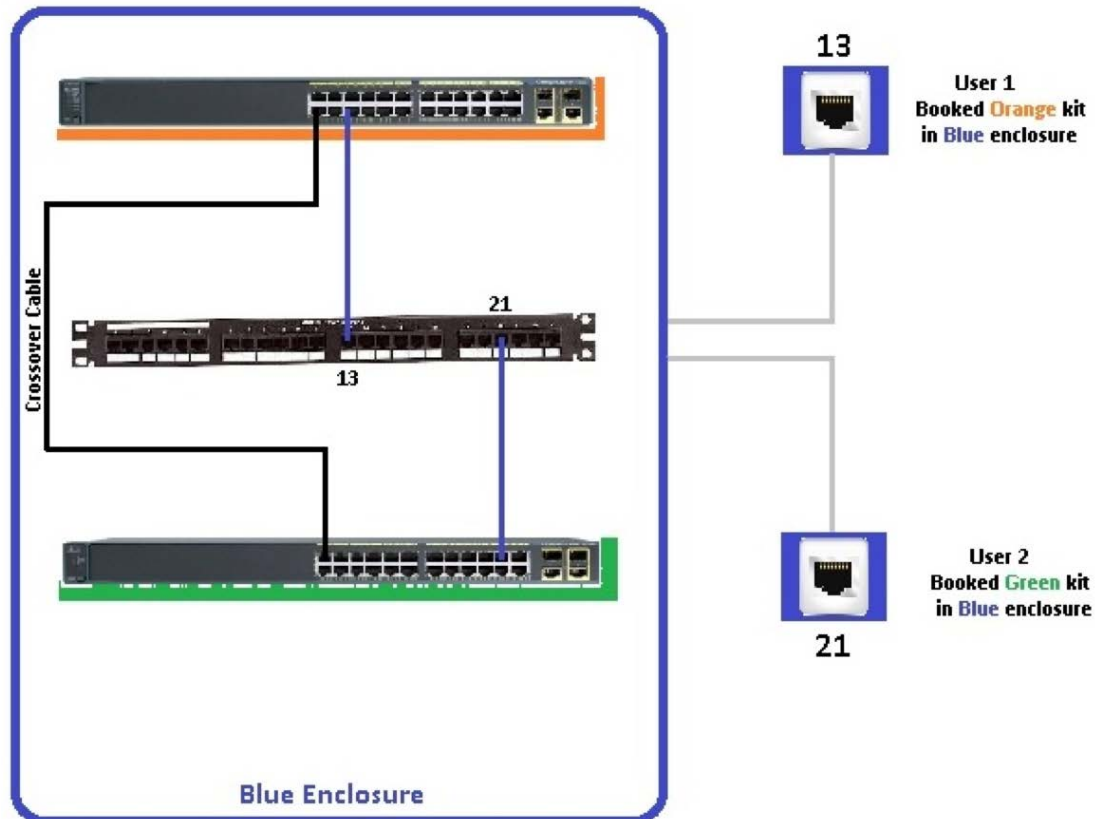
Kit - Router Serial Cable Mapping

R4

S0/1/1
S0/1/0

R3

S0/2/1
S0/2/0
S0/1/1
S0/1/0

R2

S0/1/1
S0/1/0

R1

S0/1/1
S0/1/0
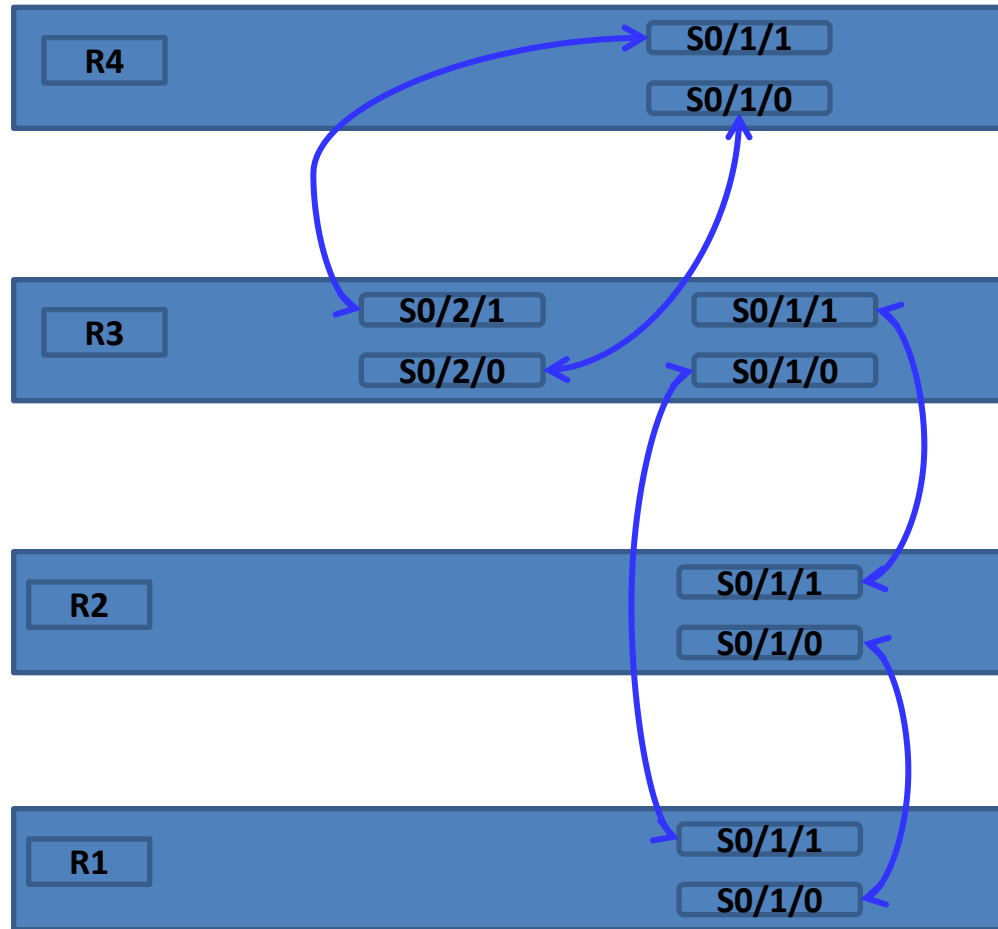
Students are NOT allowed to remove serial cables, as removal often causes damage to the serial interface. If you believe a serial interface is not working, please inform your instructor !