* Refer to Cisco 8.3 – Connectivity Verification
* Bottom up approach
  + Start with the physical layer and work your way up the OSI model layer!
* Check the physical layer
  + Do you have a link with the switch
  + Check the status led on the host and the switch
  + Is the correct cable type used, connected to the right port
  + Are you connected at the patch panel, is the switch turned on!
* Check the host’s IP configuration
  + configured for static or dynamic
  + ipconfig – do you have an address
  + IP
    - Is the IP right for the subnet
  + Check the Mask, Gateway, DNS
  + TCP/IP stack working (local loopback test)
  + Ping your IP address
* Is the problem isolated or widespread?
  + Are other devices on the segment experiencing the same problem?
* Ping other devices on the same subnet including the gateway.
* Ping the next hop (or use tracert)
* Check intermediary devices and critical servers
  + Check the router’s interface status
    - Is it powered on?
  + Check the switch
  + Do we have a routing table entry
  + DHCP
  + DNS
* Is the host we are trying to reach up?