SNMP Practical

* Create a simple Network using GNS3 and test the connections among its contents.
  + Add routers from: https://www.sysnettechsolutions.com/en/cisco-ios-download-for-gns3/
  + Create a simple network with two routers one switch and one VPC
  + Links between the nodes
  + Set IP address for routers and the pc
    - Router:
      * Conf t
      * Int e0/0
      * Ip add 145.90.10.1 255.255.255.0
      * No shut
      * End
    - Pc
      * Sh ip
      * ip 145.90.10.10/24 145.90.10.1
    - Switch
      * No configuration for the Switch
  + Ping between nodes
    - Ping ip\_address
* Add your PC into the Network in the GNS3 or Add a virtual machine
  + Use the cloud and configure its setting to the existed PC settings

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* Configure routers on the network as SNMP Agents, using the following standard commands:

snmp-server community ciscolab ro SNMP\_ACL   
snmp-server location Company\_HQ   
snmp-server contact admin@company.com   
snmp-server host 192.168.1.3 version 2c ciscolab   
snmp-server enable traps   
ip access-list standard SNMP\_ACL   
 permit 192.168.1.3

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* Install the PowerSNMP free Manager by Dart Communication, on your PC or virtual machine: <http://www.dart.com/snmp-free-manager.aspx>.
* Configure your PC as SNMP Manager
* Let the SNMP manager discover the SNMP Agents.
* Convert OID Codes with the Cisco SNMP Object Navigator