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#!/usr/bin/env python

from pysnmp.entity.rfc3413.oneliner import cmdgen

#SNMP function
def snmp_get(ip):

   #Creating command generator object
   cmdGen = cmdgen.CommandGenerator()

   #Performing SNMP GETNEXT operations on the OSPF OIDs
   #The basic syntax of nextCmd: nextCmd(authData, transportTarget, *varNames)
   #The nextCmd method returns a tuple of (errorIndication, errorStatus, errorIndex, varBindTable)

   errorIndication, errorStatus, errorIndex, varBindNbrTable =
cmdGen.nextCmd(cmdgen.CommunityData(comm),
                                          cmdgen.UdpTransportTarget((ip, 161)),
                                          '1.3.6.1.2.1.14.10.1.3')

   #print cmdGen.nextCmd(cmdgen.CommunityData(comm),cmdgen.UdpTransportTarget((ip,
161)),'1.3.6.1.2.1.14.10.1.3')
   #print varBindNbrTable

   errorIndication, errorStatus, errorIndex, varBindNbrIpTable =
cmdGen.nextCmd(cmdgen.CommunityData(comm),
                                           cmdgen.UdpTransportTarget((ip, 161)),
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                                        '1.3.6.1.2.1.14.10.1.1')

    #print varBindNbrIpTable

    errorIndication, errorStatus, errorIndex, varBindHostTable =
cmdGen.nextCmd(cmdgen.CommunityData(comm),
                                        cmdgen.UdpTransportTarget((ip, 161)),
                                        '1.3.6.1.4.1.9.2.1.3')

    #print varBindHostTable

    errorIndication, errorStatus, errorIndex, varBindHostIdTable =
cmdGen.nextCmd(cmdgen.CommunityData(comm),
                                         cmdgen.UdpTransportTarget((ip, 161)),
                                         '1.3.6.1.2.1.14.1.1')

    #print varBindHostIdTable
```