

Python `pcapy.open_live()` Examples

The following are [46](#) code examples for showing how to use `pcapy.open_live()`. They are extracted from open source Python projects. You can vote up the examples you like or vote down the examples you don't like. You can also save this page to your account.

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Example 1

Project: *darkc0de-old-stuff* Author: *tuwid* File: *sniff.py* ([GNU General Public License v3.0](#)) [View](#)

[Source Project](#)

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```
def getInterface():
    # Grab a list of interfaces that pcap is able to listen on.
    # The current user will be able to listen from all returned interfaces,
    # using open_live to open them.
    ifs = findalldevs()

    # No interfaces available, abort.
    if 0 == len(ifs):
        print "You don't have enough permissions to open any interface on this system."
        sys.exit(1)

    # Only one interface available, use it.
    elif 1 == len(ifs):
        print 'Only one interface present, defaulting to it.'
        return ifs[0]

    # Ask the user to choose an interface from the list.
    count = 0
    for iface in ifs:
        print '%i - %s' % (count, iface)
        count += 1
    idx = int(raw_input('Please select an interface: '))

    return ifs[idx]
```

Related Functions

- [sys.exit\(\)](#)
- [sys.argv\(\)](#)
- [re.compile\(\)](#)
- [time.time\(\)](#)
- [time.sleep\(\)](#)
- [re.match\(\)](#)
- [subprocess.Popen\(\)](#)
- [random.randint\(\)](#)
- [os.system\(\)](#)
- [threading.Thread\(\)](#)
- [struct.unpack\(\)](#)
- [socket.error\(\)](#)
- [socket.socket\(\)](#)
- [struct.pack\(\)](#)
- [socket.SOCK_STREAM](#)
- [os.popen\(\)](#)
- [socket.SOL_SOCKET](#)
- [socket.SOCK_DGRAM](#)
- [argparse.ArgumentParser\(\)](#)
- [socket.inet_ntoa\(\)](#)

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Example 2

Project: *darkc0de-old-stuff* Author: *tuwid* File: *sniff.py* (GNU General Public License v3.0) [View](#)[Source Project](#)

6 votes



```
def main(filter):
    dev = getInterface()

    # Open interface for catpuring.
    p = open_live(dev, 1500, 0, 100)

    # Set the BPF filter. See tcpdump(3).
    p.setfilter(filter)

    print "Listening on %s: net=%s, mask=%s, linktype=%d" % (dev, p.getnet(), p.getmask(), p.datalink())

    # Start sniffing thread and finish main thread.
    DecoderThread(p).start()

# Process command-line arguments. Take everything as a BPF filter to pass
# onto pcap. Default to the empty filter (match all).
```

- os
- sys
- re
- time
- logging
- datetime
- random
- string
- socket
- subprocess
- threading
- traceback
- struct
- hashlib
- argparse

Others in *pcapy*

- [.findalldevs\(\)](#)
- [.PcapError\(\)](#)
- [.open_live\(\)](#)
- [.pcap\(\)](#)
- [.pcapObject\(\)](#)

Example 3

Project: *PiBunny* Author: *tholum* File: *sniff.py* (license) [View Source Project](#)

6 votes



```
def getInterface():
    # Grab a list of interfaces that pcap is able to listen on.
```

```
# The current user will be able to listen from all returned interfaces,
# using open_live to open them.
ifs = findalldevs()

# No interfaces available, abort.
if 0 == len(ifs):
    print "You don't have enough permissions to open any interface on this system."
    sys.exit(1)

# Only one interface available, use it.
elif 1 == len(ifs):
    print 'Only one interface present, defaulting to it.'
    return ifs[0]

# Ask the user to choose an interface from the list.
count = 0
for iface in ifs:
    print '%i - %s' % (count, iface)
    count += 1
idx = int(raw_input('Please select an interface: '))

return ifs[idx]
```

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Example 4

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Project: *PiBunny* Author: *tholum* File: *sniff.py* ([license](#)) [View Source Project](#)

6 votes



```
def main(filter):
    dev = getInterface()

    # Open interface for catpuring.
    p = open_live(dev, 1500, 0, 100)

    # Set the BPF filter. See tcpdump(3).
```

```
p.setfilter(filter)
```

```
print "Listening on %s: net=%s, mask=%s, linktype=%d" % (dev, p.getnet(), p.getmask(), p.datalink())
```

```
# Start sniffing thread and finish main thread.
```

```
DecoderThread(p).start()
```

```
# Process command-line arguments. Take everything as a BPF filter to pass  
# onto pcap. Default to the empty filter (match all).
```

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Example 5

Project: *PiBunny* Author: *tholum* File: *tracer.py* (license) [View Source Project](#)

6 votes



```
def start(self):  
    self.p = open_live(self.interface, 1600, 0, 100)  
##    self.p.setnonblock(1)  
    if self.filter:  
        self.p.setfilter(self.filter)  
  
    # Query the type of the link and instantiate a decoder accordingly.  
    datalink = self.p.datalink()  
    if pcap.DLT_EN10MB == datalink:  
        self.decoder = EthDecoder()  
    elif pcap.DLT_LINUX_SLL == datalink:  
        self.decoder = LinuxSLLDecoder()  
    else:  
        raise Exception("Datalink type not supported: " % datalink)  
  
    self.tk.after(POLL_PERIOD, self.poll)  
    self.tk.after(REFRESH_PERIOD, self.timerDraw);  
    self.tk.bind('q', self.quit)  
    self.tk.mainloop()
```

Example 6

Project: *mitmAP* Author: *wi-fi-analyzer* File: *dns2proxy.py* (license) [View Source Project](#)

6 votes



```
def go():  
    global ip1  
    global dev
```

```

bpfILTER = "dst host %s and not src host %s and !(tcp dst port 80 or tcp dst port 443) and (not
    ip1, ip1, adminip)
cap = pcap.open_live(dev, 255, 1, 0)
cap.setfilter(bpfILTER)
DEBUGLOG( "Starting sniffing in (%s = %s)...." % (dev, ip1))

#start sniffing packets
while True:
    try:
        (header, packet) = cap.next()
        parse_packet(packet)
    except:
        pass
        #DEBUGLOG( '%s: captured %d bytes, truncated to %d bytes' %(datetime.datetime.now(), header.getlen(), header.getcaplen()))

#function to parse a packet

```

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Example 7

Project: *NetPower_TestBed* Author: *Vignesh2208* File: *tcpdump.py* ([license](#)) [View Source Project](#)

6 votes



```

def start_capture(self):
    self.pcap_writer = dpkt.pcap.Writer(open(self.out_pcap_file_path, "w"))
    p = pcap.open_live(self.intf_name, 65535, True, 1)
    #p.setnonblock(0)
    """
    while True :
        try:
            header,data = p.next()
            if header != None :
                self.handle_packet(header,data)
            #time.sleep(0.5)
        except socket.timeout:
            #time.sleep(0.1)

```

```

        continue

    """
    #try:
    p.loop(-1, self.handle_packet)
    #except:
    #    self.pcap_writer.close()
    #    print "Wrote:", self.packet_count, "packets to file:", self.out_pcap_file_path

```

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Example 8

Project: *mitmAP* Author: *xdavidhu* File: *dns2proxy.py* (license) [View Source Project](#)

6 votes



```

def go():
    global ipl
    global dev
    bpfiler = "dst host %s and not src host %s and !(tcp dst port 80 or tcp dst port 443) and (not host %s)" % (
        ipl, ipl, adminip)
    cap = pcap.open_live(dev, 255, 1, 0)
    cap.setfilter(bpfiler)
    DEBUGLOG("Starting sniffing in (%s = %s)...." % (dev, ipl))

    #start sniffing packets
    while True:
        try:
            (header, packet) = cap.next()
            parse_packet(packet)
        except:
            pass
        #DEBUGLOG(' %s: captured %d bytes, truncated to %d bytes' %(datetime.datetime.now(), header.getlen(), header.getcaplen()))

#function to parse a packet

```

Example 9

Project: *danish* Author: *smutt* File: *danish.py* (license) [View Source Project](#)

6 votes



```

def initPcap(iface, filt):
    if os.getuid() or os.geteuid():
        death("Requires root access")

```

```

if not iface in pcapy.findalldevs():
    death("Bad interface " + iface)

pr = pcapy.open_live(iface, 65536, True, 0)
if pr.datalink() != pcapy.DLT_EN10MB:
    death("Interface not Ethernet " + iface)

try:
    pr.setfilter(filt)
except pcapy.PcapError:
    death("initPcap:Bad capture filter " + filt)

# Non-blocking status appears to vary by platform and libpcap version
pr.setnonblock(0)

return pr

# Wrapper for RxThr

```

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Example 10

Project: [sslststrip-hsts-openwrt](#) Author: [adde88](#) File: [dns2proxy.py](#) ([license](#)) [View Source Project](#)

6 votes



```

def go():
    global ipl
    global dev
    bpfiler = "dst host %s and not src host %s and !(tcp dst port 80 or tcp dst port 443) and (not host %s)" % (
        ipl, ipl, adminip)
    cap = pcapy.open_live(dev, 255, 1, 0)
    cap.setfilter(bpfiler)
    DEBUGLOG("Starting sniffing in (%s = %s)...." % (dev, ipl))

    #start sniffing packets
    while True:
        try:
            (header, packet) = cap.next()
            parse_packet(packet)
        except:
            pass

```

```
#DEBUGLOG( ('%s: captured %d bytes, truncated to %d bytes' %(datetime.datetime.now(), len(buf), len(buf))))
```

```
#function to parse a packet
```

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Example 11

Project: *wispy* Author: *mdtomo* File: *wispy.py* [\(license\)](#) [View Source Project](#)

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```
def start_packet_capture():
    print('Packet capture starting on ' + INTERFACE)
    time.sleep(1)
    capture = pcap.open_live(INTERFACE, 1514, 1, 10)
    capture.setfilter('subtype probe-req')
    while True:
        try:
            header_type = capture.datalink()
            (header, pkt) = capture.next()
            if header_type == 0x7F and len(pkt) > 0: # 0x7F/127 RadioTap header
                packet_handler(header, pkt)
        except KeyboardInterrupt:
            global SHUTDOWN
            SHUTDOWN = True
            disable_monitor_mode()
            break
```

Example 12

Project: *pantea* Author: *nim4* File: *pantea.py* [\(license\)](#) [View Source Project](#)

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```
def sniff(dev):
    pc = pcap.open_live(dev, 4096, True, 1000)
    pc.setfilter('dst port 80 and \
        ((tcp[((tcp[12:1] & 0xf0) >> 2):4] = 0x47455420) or \
        ((tcp[((tcp[12:1] & 0xf0) >> 2):4] = 0x504f5354)))')
    pc.loop(-1, lambda x, y: DATA_POOL.put(y))
```

Example 13

Project: *WIG* Author: *6e726d* File: *ccx_scanner.py* [\(license\)](#) [View Source Project](#)

6 votes




```
def __init__(self, iface, mac_address):
    self.devices = dict()
    self.iface = iface
    self.pd = pcapy.open_live(iface, helpers.PCAP_SNAPLEN, helpers.PCAP_PROMISCOUS, helpers.PCAP_TIMEOUT)
    self.mac_address = helpers.get_buffer_from_string_mac_address(mac_address)
    # We need to capture beacon and probe response frames to get BSSID, SSID and CCX 85 IE.
    # But we also need to get reassociation response frames with CCX 95 IE.
    bpf_filter = "(type mgt subtype beacon) or (type mgt subtype probe-resp) or (type mgt subtype reassoc-resp)"
    self.pd.setfilter(bpf_filter)
    datalink = self.pd.datalink()
    if datalink == helpers.PCAP_DLT_IEEE802_11:
        self.decoder = ImpactDecoder.Dot11Decoder()
    elif datalink == helpers.PCAP_DLT_IEEE802_11_RADIO_TAP:
        self.decoder = ImpactDecoder.RadioTapDecoder()
    else:
        raise Exception("Invalid datalink.")
    self.run()
```

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Example 14

Project: *CyberScan* Author: *medbenali* File: *pcapdnet.py* [\(license\)](#) [View Source Project](#)

5 votes



```
def __init__(self, *args, **kwargs):
    self.pcap = pcap.pcapObject()
    self.pcap.open_live(*args, **kwargs)
```

Example 15

Project: *CyberScan* Author: *medbenali* File: *pcapdnet.py* [\(license\)](#) [View Source Project](#)

5 votes



```
def __init__(self, *args, **kwargs):
    self.pcap = pcap.open_live(*args, **kwargs)
```

Example 16

Project: *hostapd-mana* Author: *adde88* File: *dns2proxy.py* [\(license\)](#) [View Source Project](#)

5 votes



```
def go():
    global ip1
    global dev
    bpf_filter = "dst host %s and not src host %s and !(tcp dst port 80 or tcp dst port 443) and (not host %s)" % (
```

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```

    ipl, ipl, adminip)
cap = pcap.open_live(dev, 255, 1, 0)
cap.setfilter(bpffilter)
DEBUGLOG( "Starting sniffing in (%s = %s)...." % (dev, ipl))

#start sniffing packets
while True:
    try:
        (header, packet) = cap.next()
        parse_packet(packet)
    except:
        pass
    #DEBUGLOG( ('%s: captured %d bytes, truncated to %d bytes' %(datetime.datetime.now(), header.getlen(), header.getcaplen()))

#function to parse a packet

```

Example 17

Project: *hostapd-mana* Author: *adde88* File: *pcapdnet.py* [\(license\)](#) [View Source Project](#)

5 votes



```

def __init__(self, *args, **kargs):
    self.pcap = pcap.pcapObject()
    self.pcap.open_live(*args, **kargs)

```

Example 18

Project: *hostapd-mana* Author: *adde88* File: *pcapdnet.py* [\(license\)](#) [View Source Project](#)

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```

def __init__(self, *args, **kargs):
    self.pcap = pcap.open_live(*args, **kargs)

```

Example 19

Project: *CVE-2016-6366* Author: *RiskSense-Ops* File: *pcapdnet.py* [\(license\)](#) [View Source Project](#)

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```

def __init__(self, *args, **kargs):
    self.pcap = pcap.pcapObject()
    self.pcap.open_live(*args, **kargs)

```

Example 20

Project: *CVE-2016-6366* Author: *RiskSense-Ops* File: *pcapdnet.py* ([license](#)) [View Source Project](#)

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```
def __init__(self, *args, **kwargs):
    self.pcap = pcap.open_live(*args, **kwargs)
```

Example 21

Project: *PiBunny* Author: *tholum* File: *tracer.py* ([license](#)) [View Source Project](#)

5 votes



```
def getInterfaces():
    # Grab a list of interfaces that pcap is able to listen on.
    # The current user will be able to listen from all returned interfaces,
    # using open_live to open them.
    ifs = findalldevs()

    # No interfaces available, abort.
    if 0 == len(ifs):
        return "You don't have enough permissions to open any interface on this system."

    return ifs
```

Example 22

Project: *trex-http-proxy* Author: *alwey* File: *pcapdnet.py* ([license](#)) [View Source Project](#)

5 votes



```
def __init__(self, *args, **kwargs):
    self.pcap = pcap.pcapObject()
    self.pcap.open_live(*args, **kwargs)
```

Example 23

Project: *trex-http-proxy* Author: *alwey* File: *pcapdnet.py* ([license](#)) [View Source Project](#)

5 votes



```
def __init__(self, *args, **kwargs):
    self.pcap = pcap.open_live(*args, **kwargs)
```

Example 24

Project: *intel-manager-for-lustre* Author: *intel-hpdd* File: *networking.py* ([license](#)) [View Source Project](#)

5 votes



```
def start_cap(interface, timeout, filter):
    try:
        cap = pcapy.open_live(interface.name, 64, True, timeout * 1000)
        cap.setfilter(filter)
    except Exception, e:
        raise RuntimeError("Error doing open_live() / setfilter(): %s" % e)

    return cap
```

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Example 25

Project: *scapy-bpf* Author: *guedou* File: *pcapdnet.py* (license) [View Source Project](#)

5 votes



```
def __init__(self, *args, **kargs):
    self.pcap = pcap.pcapObject()
    self.pcap.open_live(*args, **kargs)
```

Example 26

Project: *scapy-bpf* Author: *guedou* File: *pcapdnet.py* (license) [View Source Project](#)

5 votes



```
def __init__(self, *args, **kargs):
    self.pcap = pcap.open_live(*args, **kargs)
```

Example 27

Project: *sslstrip-hsts-openwrt* Author: *adde88* File: *pcapdnet.py* (license) [View Source Project](#)

5 votes



```
def __init__(self, *args, **kargs):
    self.pcap = pcap.pcapObject()
    self.pcap.open_live(*args, **kargs)
```

Example 28

Project: *sslstrip-hsts-openwrt* Author: *adde88* File: *pcapdnet.py* (license) [View Source Project](#)

5 votes



```
def __init__(self, *args, **kargs):
    self.pcap = pcap.open_live(*args, **kargs)
```

Example 29

Project: *scapy-radio* Author: *BastilleResearch* File: *pcapdnet.py* (license) [View Source Project](#)

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```
def __init__(self, *args, **kargs):
    self.pcap = pcap.pcapObject()
    self.pcap.open_live(*args, **kargs)
```

Example 30Project: *scapy-radio* Author: *BastilleResearch* File: *pcapdnet.py* (license) [View Source Project](#)

5 votes



```
def __init__(self, *args, **kargs):
    self.pcap = pcap.open_live(*args, **kargs)
```

Example 31Project: *packetweaver* Author: *ANSSI-FR* File: *pcap.py* (license) [View Source Project](#)

5 votes



```
def capture_thread(stop_evt, pkts_pipe, iface, bpf=None):
    h = pcap.open_live(iface, 65535, 1, 1)
    if not isinstance(bpf, type(None)):
        h.setfilter(bpf)

    while not stop_evt.is_set():
        hdr, payld = h.next()
        if not isinstance(hdr, type(None)):
            pkts_pipe.send(payld)
    h = None
```

Example 32Project: *packetweaver* Author: *ANSSI-FR* File: *pcap.py* (license) [View Source Project](#)

5 votes



```
def sending_raw_traffic_thread(stop_evt, poller, receiver, iface):
    h = pcap.open_live(iface, 65535, 1, 1)
    while not stop_evt.is_set():
        if poller(0.1):
            try:
                s = receiver()
                h.sendpacket(s)
            except (EOFError, IOError):
                stop_evt.set()
```

Example 33

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 Project: *isf* Author: *w3h* File: *pcapdnet.py* ([license](#)) [View Source Project](#)

5 votes



```
def __init__(self, *args, **kwargs):
    self.pcap = pcap.pcapObject()
    self.pcap.open_live(*args, **kwargs)
```

Example 34

 Project: *isf* Author: *w3h* File: *pcapdnet.py* ([license](#)) [View Source Project](#)

5 votes



```
def __init__(self, *args, **kwargs):
    self.pcap = pcap.open_live(*args, **kwargs)
```

Example 35

 Project: *kekescan* Author: *xiaoxiaoleo* File: *dhcp.py* ([license](#)) [View Source Project](#)

5 votes



```
def initialize(self):
    self.pcap = pcapy.open_live(pcap.lookupdev(), -1, 1, 1)
    self.pcap.setfilter("port 67", 1, 0xffffffff)
    self.sock = socket.socket(socket.AF_INET, socket.SOCK_DGRAM)
    self.sock.connect(('192.168.1.1', 67))
    self.decoder = ImpactDecoder.EthDecoder()
```

Example 36

 Project: *Traffic_Classification* Author: *networkedsystemsIITB* File: *decision-tree-classification-laptop-AP.py* ([license](#)) [View Source Project](#)

5 votes



```
def main(argv):
    dev = "wlan0" # interface on which packet will be captured

    cap = pcapy.open_live(dev, 100, 1, 1000) # Here, open_live() captures packet

    # 1st parameter : interface name
    # 2nd parameter : How many bytes to capture in each
    # 3rd parameter : promiscuous mode
    # 4th parameter : Read timeout time

    #start sniffing packets, infinite while loop
```

```
while(1) :
    (header, packet) = cap.next()
    parse_packet(packet)
```

```
# capture packets,
# parse each packet
```

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```
#Convert a string of 6 characters of ethernet address into a dash separated hex string
```

Example 37

Project: *Traffic_Classification* Author: *networkedsystemsIIITB* File: *classification-script-decision-tree.py*

[\(license\)](#) [View Source Project](#)

5 votes



```
def main(argv):
    dev = "eth1" # interface on which packet will be captured
```

```
    cap = pcapy. open_live(dev , 100 , 1 , 0) # Here, open_live() captures packet
```

```
# 1st parameter : interface name
# 2nd parameter : How many bytes to capture in each
# 3rd parameter : promiscuous mode
# 4th parameter : Read timeout time
```

```
#start sniffing packets, infinite while loop
```

```
while(1) :
    (header, packet) = cap.next() # capture packets, one by one
    parse_packet(packet) # parse each packet
```

```
#Convert a string of 6 characters of ethernet address into a dash separated hex string
```

Example 38

Project: *Traffic_Classification* Author: *networkedsystemsIIITB* File: *knn-classification-script.py*

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5 votes



```
def main(argv):
    dev = "eth1" # interface on which packet will be captured
```

```
    cap = pcapy. open_live(dev , 100 , 1 , 0) # Here, open_live() captures packet
```

```
# 1st parameter : interface name
# 2nd parameter : How many bytes to capture in each
# 3rd parameter : promiscuous mode
# 4th parameter : Read timeout time
```

```
#start sniffing packets, infinite while loop
while(1) :
    (header, packet) = cap.next()
    parse_packet(packet)
```

```
# capture packets, one by one
# parse each packet
```

```
#Convert a string of 6 characters of ethernet address into a dash separated hex string
```

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Example 39

Project: [scapy-vxlan](#) Author: [p4lang](#) File: [pcapdnet.py](#) ([license](#)) [View Source Project](#)

5 votes



```
def __init__(self, *args, **kwargs):
    self.pcap = pcap.pcapObject()
    self.pcap.open_live(*args, **kwargs)
```

Example 40

Project: [scapy-vxlan](#) Author: [p4lang](#) File: [pcapdnet.py](#) ([license](#)) [View Source Project](#)

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```
def __init__(self, *args, **kwargs):
    self.pcap = pcap.open_live(*args, **kwargs)
```

Example 41

Project: [python_gray_8_9_11_12](#) Author: [3xp10it](#) File: [network_monitor.py](#) ([license](#)) [View Source Project](#)

5 votes



```
def pre_send (self, test_number):
    """
    This routine is called before the fuzzer transmits a test case and spin off a packet capture thread.
    """

    self.log("initializing capture for test case #%d" % test_number)

    # open the capture device and set the BPF filter.
    self.pcap = pcap.open_live(self.device, -1, 1, 100)
    self.pcap.setfilter(self.filter)

    # instantiate the capture thread.
    pcap_log_path = "%s/%d.pcap" % (self.log_path, test_number)
```



```
self.pcap_thread = PcapThread(self, self.pcap, pcap_log_path)
self.pcap_thread.start()
```

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Example 42

Project: *WIG* Author: *6e726d* File: *p2p_scanner.py* ([license](#)) [View Source Project](#)

5 votes



```
def __init__(self, iface, mac_address):
    Process.__init__(self)
    self.pd = pcapy.open_live(iface, helpers.PCAP_SNAPLEN, helpers.PCAP_PROMISCOUS, helpers.PCAP_TIMEOUT)
    self.mac_address = mac_address
    self.iface = iface
    self.channel = interface.get_interface_channel(self.iface)
```

Example 43

Project: *WIG* Author: *6e726d* File: *p2p_scanner.py* ([license](#)) [View Source Project](#)

5 votes



```
def __init__(self, iface, mac_address):
    self.devices = dict()
    self.pd = pcapy.open_live(iface, helpers.PCAP_SNAPLEN, helpers.PCAP_PROMISCOUS, helpers.PCAP_TIMEOUT)
    bpf_filter = "(type mgt subtype probe-resp) and (wlan addr1 %s)" % mac_address
    self.pd.setfilter(bpf_filter)
    datalink = self.pd.datalink()
    if datalink == helpers.PCAP_DLT_IEEE802_11:
        self.decoder = ImpactDecoder.Dot11Decoder()
    elif datalink == helpers.PCAP_DLT_IEEE802_11_RADIO_TAP:
        self.decoder = ImpactDecoder.RadioTapDecoder()
    else:
        raise Exception("Invalid datalink.")
    self.run()
```

Example 44

Project: *WIG* Author: *6e726d* File: *wps_scanner.py* ([license](#)) [View Source Project](#)

5 votes



```
def __init__(self, iface, mac_address):
    Process.__init__(self)
    self.pd = pcapy.open_live(iface, helpers.PCAP_SNAPLEN, helpers.PCAP_PROMISCOUS, helpers.PCAP_TIMEOUT)
    self.mac_address = mac_address
```

```
self.iface = iface
self.channel = interface.get_interface_channel(self.iface)
```

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Example 45

Project: *WIG* Author: *6e726d* File: *wps_scanner.py* ([license](#)) [View Source Project](#)

5 votes



```
def __init__(self, iface, mac_address):
    self.devices = dict()
    self.pd = pcap.open_live(iface, helpers.PCAP_SNAPLEN, helpers.PCAP_PROMISCOUS, helpers.PCAP_TIMEOUT)
    bpf_filter = "(type mgt subtype probe-resp) and (wlan addr1 %s)" % mac_address
    self.pd.setfilter(bpf_filter)
    datalink = self.pd.datalink()
    if datalink == helpers.PCAP_DLT_IEEE802_11:
        self.decoder = ImpactDecoder.Dot11Decoder()
    elif datalink == helpers.PCAP_DLT_IEEE802_11_RADIO_TAP:
        self.decoder = ImpactDecoder.RadioTapDecoder()
    else:
        raise Exception("Invalid datalink.")
    self.run()
```

Example 46

Project: *honeypd-python* Author: *sookyp* File: *dispatcher.py* ([license](#)) [View Source Project](#)

4 votes



```
def __init__(self, interface, network, default, elements, loggers, tunnels):
    """Function initialized the dispatcher
    Args:
        interface : name of the network interface to listen
        network : networkx graph representation of the network
        default : default template
        elements : elements of the network
        loggers : instances of the logger modules
        tunnels : tunnel configuration
    """
    self.interface = interface
    self.mac = netifaces.ifaddresses(self.interface)[netifaces.AF_LINK][0]['addr']
    self.network = network
    try:
        post('http://localhost:8080/network', json=dumps(json_graph.node_link_data(self.network)))
    except:
```

```
        logger.exception('Exception: Cannot connect to local server.')
self.default = default
self.devices, self.routes, self.externals = elements
self.hpfeeds, self.dblogger = loggers
self.tunnels = tunnels
self.packet_queue = dict()
self.entry_points = list()
self.unreach_list = list()
self.pcap_object = pcap.open_live(self.interface, 65535, 1, 10)
self.decoder = ImpactDecoder.EthDecoder()
self.ip_decoder = ImpactDecoder.IPDecoder()
self.ip_icmp_decoder = ImpactDecoder.IPDecoderForICMP()
self.mac_set = set([self.mac])
for d in self.devices:
    if len(d.mac):
        self.mac_set.add(d.mac)
for r in self.routes:
    if r.entry:
        self.entry_points.append(r)
        self.unreach_list.extend(r.unreach_list)
logger.info('Started dispatcher listening on interface %s', self.interface)
while True:
    try:
        (hdr, pkt) = self.pcap_object.next()
        self.callback(hdr, pkt)
    except KeyboardInterrupt:
        return
```

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