

Connected Mobile (CMX) ةب رجت ىلع ةمزحلا طاقنلا

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ةمدقملا

(CLI) (CMX) 10.x. (: NMSP (WLC) CMX) .

تابلطلتلا

- (CLI) CMX.
- Wireshark .

روصللا طاقنلا TCPDUMP مادختسا

ةادألا هذه لمعت CMX. مداخل ىلع ةملتسملاو ةلسرمللا مزحلا ضرعى مزح للحم وه TCPDUMP ةنمضم ةمزحلا. ماظنلا/ةكبشلا لىل وؤسمل اهالصل او اءاخالل فاشكتساو لىل لىل ةادأك مزحلا نم ماخالل تاناىبلا لىل رظنلا نكمى شىح CMX مداخل لىل.

لوصوللا مزلى (: لىلاتلا اءاخالل شودح عم 'cmxadmin' مدختسمك Tcpdump لىل غشت لىل شفى دق 'root')

In this example, tcpdump is attempted to be run as a 'cmxadmin' user.

```
[cmxadmin@laughter ~]$ tcpdump -i eth0 port 16113
tcpdump: eth0: You don't have permission to capture on that device
(socket: Operation not permitted)
```

ةهجاو لىل 'cmxadmin' مدختسمك لوخدلا لىل جستن دعب 'root' مدختسملا لىل لىل دب تلاب مق مءحلا ةدحو و SSH ربع رماوأللا رطس.

```
[cmxadmin@laughter ~]$ su - root
Password:
[root@laughter ~]#
```

ةح ي ح ص ل ا ة ه ج اول ا م ا د خ ت س ا

'ifconfig -a' م ا د خ ت س ا ب ا ه ي ل ع ل و ص ح ل ل ن ك م ي و . ا ه ي ف م ز ح ل ا ط ا ق ت ل ا م ت ي س ي ت ل ل ة ه ج اول ا ن و د

In this example, 10.10.10.25 is the IP address of CMX server and 'eth0' is the interface it's tied to on the server.

```
[cmxadmin@laughter ~]$ ifconfig -a eth0      Link encap:Ethernet  HWaddr 00:50:56:A1:38:BB
      inet addr:10.10.10.25  Bcast:10.10.10.255  Mask:255.255.255.0
      inet6 addr: 2003:a04::250:56ff:feal:38bb/64 Scope:Global
      inet6 addr: fe80::250:56ff:feal:38bb/64 Scope:Link
      UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
      RX packets:32593118 errors:0 dropped:0 overruns:0 frame:0
      TX packets:3907086 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:1000
      RX bytes:3423603633 (3.1 GiB)  TX bytes:603320575 (575.3 MiB)
```

```
lo      Link encap:Local Loopback
      inet addr:127.0.0.1  Mask:255.0.0.0
      inet6 addr: ::1/128 Scope:Host
      UP LOOPBACK RUNNING  MTU:65536  Metric:1
      RX packets:1136948442 errors:0 dropped:0 overruns:0 frame:0
      TX packets:1136948442 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:0
      RX bytes:246702302162 (229.7 GiB)  TX bytes:246702302162 (229.7 GiB)
```

```
[cmxadmin@laughter ~]$
```

م ز ح ل ا ط ا ق ت ل ا

This example captures and displays all packets that are sourced from port - 16113 and enter the CMX server on the eth0 interface.

```
[root@laughter ~]# tcpdump -i eth0 src port 16113 tcpdump: verbose output suppressed, use -v or
-vv for full protocol decode listening on eth0, link-type EN10MB (Ethernet), capture size 65535
bytes 09:50:29.530824 IP 172.18.254.249.16113 > laughter.cisco.com.40020: Flags [P.], seq
983381312:983382645, ack 2483597279, win 191, options [nop,nop,TS val 1792647414 ecr
1148435777], length 1333 09:50:31.507118 IP 172.18.254.249.16113 > laughter.cisco.com.40020:
Flags [.], seq 1333:2715, ack 1, win 191, options [nop,nop,TS val 1792647908 ecr 1148437650],
length 1382 09:50:31.507186 IP 172.18.254.249.16113 > laughter.cisco.com.40020: Flags [P.], seq
2715:2890, ack 1, win 191, options [nop,nop,TS val 1792647908 ecr 1148437650], length 175
09:50:33.483166 IP 172.18.254.249.16113 > laughter.cisco.com.40020: Flags [P.], seq 2890:4239,
ack 1, win 191, options [nop,nop,TS val 1792648402 ecr 1148439626], length 1349 09:50:35.459584
IP 172.18.254.249.16113 > laughter.cisco.com.40020: Flags [P.], seq 4239:5396, ack 1, win 191,
options [nop,nop,TS val 1792648896 ecr 1148441603], length 1157 ^C 5 packets captured 5 packets
received by filter 0 packets dropped by kernel [root@laughter ~]#
```

ف ل م ي ل ع ت ا ج ر خ م ل ا ة ب ا ت ك ل

In this example, tcpdump would capture packets that are from 10.10.20.5 received on it's eth0 interface and write it to a file named TEST_NMSP_WLC.pcap.

```
[root@laughter cmxadmin]# tcpdump -i eth0 src 10.10.20.5 -w TEST_NMSP_WLC.pcap
tcpdump: listening on eth0, link-type EN10MB (Ethernet), capture size 65535 bytes
^C7 packets captured
7 packets received by filter
0 packets dropped by kernel
[root@laughter cmxadmin]#
```


