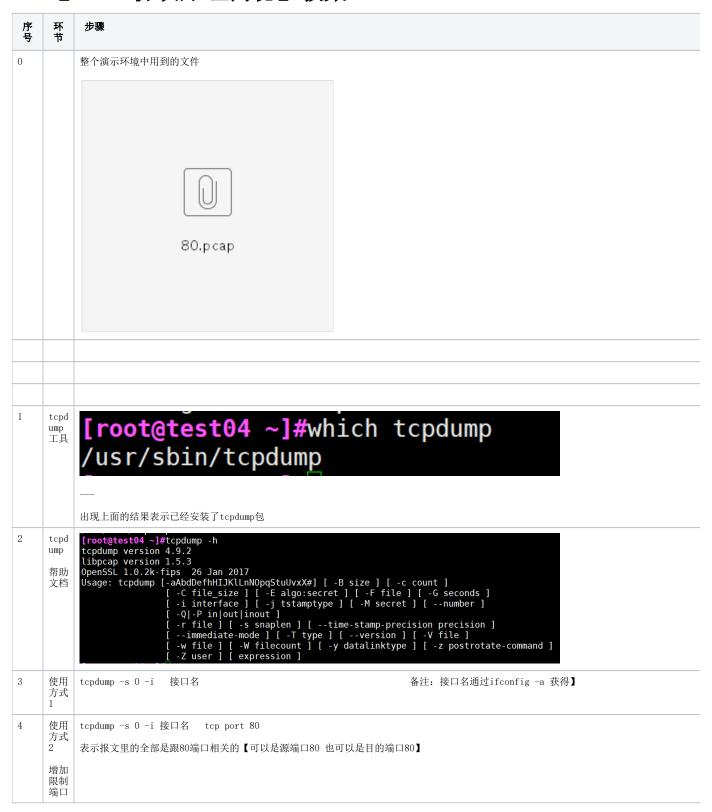
001【TCPIP协议原理揭秘】教案



5 [root@test04 ~]#tcpdump -s 0 -i ens192 tcp port 80 -w 80.pcap
tcpdump: listening on ens192, link-type EN10MB (Ethernet), capture size 262144 bytes 使用 方式 3 ^C94 packets captured 94 packets received by filter 0 packets dropped by kernel 保存 到 [root@test04 ~]# pcap 文件 在另外一个窗口执行 wget www.baidu.com 回到第1个界面,ctrl+c就可以退出,然后看到本地有个80.pcap文件如下 [root@test04 ~]#ls -al|grep pcap 1 tcpdump tcpdump -rw-r--r--38790 Sep 22 14:37 80.pcap [root@test04 ~]# 休息1分钟 6 拷贝 sz 80. pcap 如果没有这个命令,则执行yum -y install lrzsz 到本 地 7 使用 备注: 如果无法识别,则安装wireshark软件,比如通过360软件管家 wire shark 双击这个文件, 结果如图所示: Destination 192.168.0.82 192.168.0.114 magth Info
983 POST / Api/v4/jobs/request HTTP/1.1 (application/json)
295 HTTP/1.1 204 No Content
66 63896 - 80 [ACK] Seq-918 Ack-230 Win-254 Len-0 TSval-1691642372
74 29980 - 80 [SVN] Seq-0 Win-29200 Len-0 MSS-1460 SACK PERM-1 TSV:
74 80 + 29980 | SVN, ACK] Seq-0 Acks Lin-8192 Len-0 MSS-1452 SACK_F
54 29980 - 80 [ACK] Seq-1 Acks-1 Win-29206 Len-0
165 GET / WITP/1.1 192.168.0.114 192.168.0.114 3 0.001295 192.168.0.82 4 1.917082 5 1.956565 6 1.956641 180.101.49.12 192.168.0.114 180.101.49.12 TCP 6 1.956641 7 1.956764 8 1.996772 9 1.997015 10 1.997033 11 1.997059 12 1.997068 13 1.998135 192.168.0.114 180.101.49.12 54 29980 + 80 [AKK] Seq-1 Ack-1 Win-29696 Len-0
165 GET / HTTF1/1.1
60 80 + 29980 [AKK] Seq-1 Ack-112 Win-29656 Len-0
1566 80 + 29980 [AKK] Seq-1 Ack-112 Win-29656 Len-1452 [TCP segment c
54 29980 + 80 [AKK] Seq-112 Ack-1453 Win-32256 Len-0
1999 HTTF1/1.1 200 0K (text/html)
54 29980 + 80 [AKK] Seq-112 Ack-2498 Win-35328 Len-0
54 29980 + 80 [AKK] Seq-112 Ack-2498 Win-35328 Len-0
1999 [TCP Spurious Retransmission] 80 - 29980 [SNK] ACK] Seq-1453 ACK
66 [TCP DUD ACK 1281] 29980 + 80 [ACK] Seq-113 Ack-2498 Win-35328 1
68 0 - 29980 [AKK] Seq-2498 Ack-113 Win-29656 Len-0 192.168.0.114 192.168.0.114 180.101.49.12 180.101.49.12 192.168.0.114 180.101.49.12 192.168.0.114 192.168.0.114 180.101.49.12 192.168.0.114 180.101.49.12 HTTP 180.101.49.12 192.168.0.114 192.168.0.114 180.101.49.12 192.168.0.114 180.101.49.12 180.101.49.12 192.168.0.114 192.168.0.114 66 [TCP Dup ACK 1281] 20980 + 80 [ACK] Seq=113 Ack>4208 Min=35328 60 80 + 20980 [ACK] Seq=2498 Ack=13 Min=20956 Len=0 60 80 + 20980 [FIN, ACK] Seq=2408 Ack=113 Min=20956 Len=0 54 20980 + 80 [ACK] Seq=113 Ack=2409 Min=35328 Len=0 983 POST /api/w4/jobs/request HTTD/1.1 (application/json) 295 HTTP/1.1 204 No Content 66 63805 + 80 [ACK] Seq=1835 Ack=459 Min=256 Len=0 TSval=1691645377 983 POST /api/w4/jobs/request HTTD/1.1 (application/json) 180.101.49.12 180.101.49.12 192.168.0.114 192.168.0.114 192.168.0.114 192.168.0.114 180.101.49.12 192.168.0.82 TCP TCP TCP HTTP HTTP

19 3.000286 20 3.001521 21 3.001562

22 6.000483

192.168.0.82

192.168.0.114

192.168.0.114

192.168.0.114

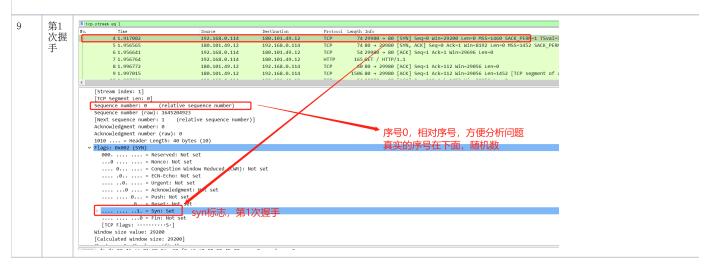
TCP HTTP

192.168.0.82

192.168.0.82

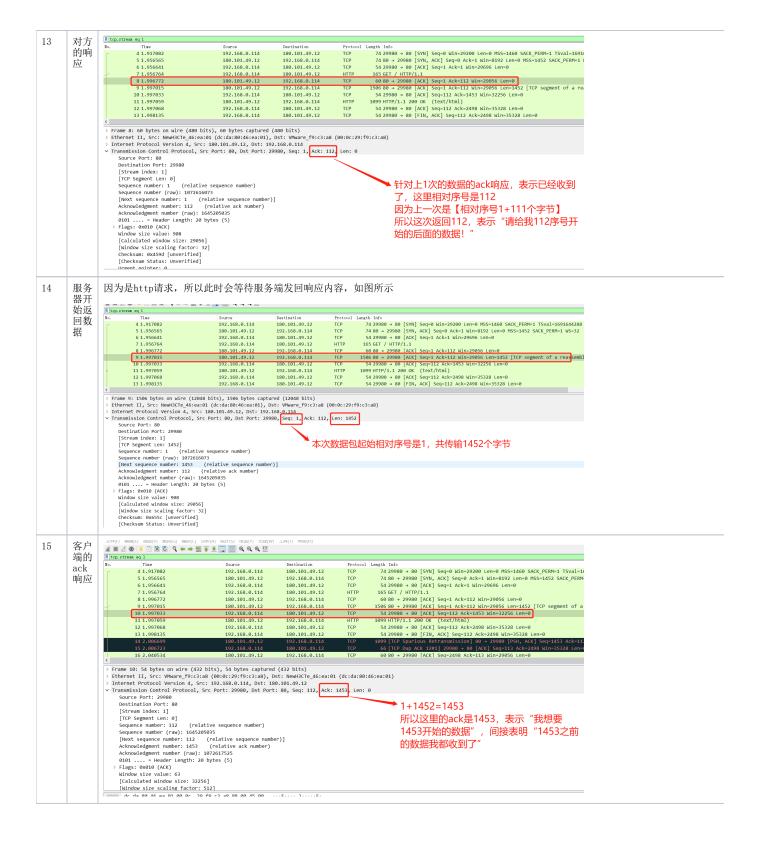


休息1分钟





本次数据包以相对序号1开始 共传输111个字节





休息1分钟,注意:

ack是对对方的消息的确认, seq+len是本次自己发送的数据



