

HW08: TCP Vulnerabilities, DOS Attacks

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if __name__ == "__main__":  
    spoof_ip = '169.254.214.186'  
    target_ip = '169.254.214.181'  
    TeeCP = TcpAttack(spoof_ip, target_ip)  
    TeeCP.scanTarget(130, 140)  
    #TeeCP.attackTarget(135, 10)
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jack@jack-Yoga-6-13ARE05:~$ sudo tcpdump  
tcpdump: verbose output suppressed, use -v[v]... for full protocol decode  
listening on enp0s0, link-type EN10MB (Ethernet), snapshot length 262144 bytes  
13:32:29.923738 IP jack-Yoga-6-13ARE05.local.52680 > 169.254.214.181.130: Flags [S], seq 1611184654  
13:32:29.924144 IP 169.254.214.181.130 > jack-Yoga-6-13ARE05.local.52680: Flags [R.], seq 0, ack 1611184655, win 0, length 0  
13:32:29.924270 IP jack-Yoga-6-13ARE05.local.47114 > 169.254.214.181.131: Flags [S], seq 468682335, win 0, length 0  
13:32:29.924602 IP 169.254.214.181.131 > jack-Yoga-6-13ARE05.local.47114: Flags [R.], seq 0, ack 468682336, win 0, length 0  
13:32:29.924686 IP jack-Yoga-6-13ARE05.local.54660 > 169.254.214.181.132: Flags [S], seq 150308866, win 0, length 0  
13:32:29.925035 IP 169.254.214.181.132 > jack-Yoga-6-13ARE05.local.54660: Flags [R.], seq 0, ack 150308866, win 0, length 0  
13:32:29.925119 IP jack-Yoga-6-13ARE05.local.48948 > 169.254.214.181.133: Flags [S], seq 1995153502, win 0, length 0  
13:32:29.925470 IP 169.254.214.181.133 > jack-Yoga-6-13ARE05.local.48948: Flags [R.], seq 0, ack 1995153503, win 0, length 0  
13:32:29.925510 IP jack-Yoga-6-13ARE05.local.36806 > 169.254.214.181.134: Flags [S], seq 4074797711, win 0, length 0  
13:32:29.925816 IP 169.254.214.181.134 > jack-Yoga-6-13ARE05.local.36806: Flags [R.], seq 0, ack 4074797712, win 0, length 0  
13:32:29.925852 IP jack-Yoga-6-13ARE05.local.55258 > 169.254.214.181.epmap: Flags [S], seq 313509982, win 0, length 0  
13:32:29.926196 IP 169.254.214.181.epmap > jack-Yoga-6-13ARE05.local.55258: Flags [S.], seq 984092929, ack 3135099982, win 65535, options [mss 1460, nop, wscale 8, nop, sackOK], length 0  
13:32:29.926211 IP jack-Yoga-6-13ARE05.local.55258 > 169.254.214.181.epmap: Flags [.], ack 1, win 502, length 0  
13:32:29.926226 IP jack-Yoga-6-13ARE05.local.55258 > 169.254.214.181.epmap: Flags [F.], seq 1, ack 1, win 502, length 0  
13:32:29.926240 IP jack-Yoga-6-13ARE05.local.60878 > 169.254.214.181.136: Flags [S], seq 3793994529, win 0, length 0  
13:32:29.926559 IP 169.254.214.181.epmap > jack-Yoga-6-13ARE05.local.55258: Flags [.], ack 2, win 8212, length 0  
13:32:29.926561 IP 169.254.214.181.136 > jack-Yoga-6-13ARE05.local.60878: Flags [R.], seq 0, ack 3793994529, win 0, length 0  
13:32:29.926562 IP 169.254.214.181.epmap > jack-Yoga-6-13ARE05.local.55258: Flags [F.], seq 1, ack 2, win 8212, length 0  
13:32:29.926585 IP jack-Yoga-6-13ARE05.local.55258 > 169.254.214.181.epmap: Flags [.], ack 2, win 502, length 0  
13:32:29.926605 IP jack-Yoga-6-13ARE05.local.54044 > 169.254.214.181.137: Flags [S], seq 282590844, win 0, length 0  
13:32:29.926908 IP 169.254.214.181.137 > jack-Yoga-6-13ARE05.local.54044: Flags [R.], seq 0, ack 282590845, win 0, length 0  
13:32:29.926941 IP jack-Yoga-6-13ARE05.local.53750 > 169.254.214.181.138: Flags [S], seq 2272561845, win 0, length 0  
13:32:29.927288 IP 169.254.214.181.138 > jack-Yoga-6-13ARE05.local.53750: Flags [R.], seq 0, ack 2272561846, win 0, length 0
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As seen in the image, the TCP dump shows 8 of the 10 packets being sent from the spoof IP address to the target IP address with the "S" flag set, with each packet having a different port number to determine if that port is open. Since port 135 is open, the port sends a reply back to the spoof ip.