Name: Christine Polly **Roll no: 17**

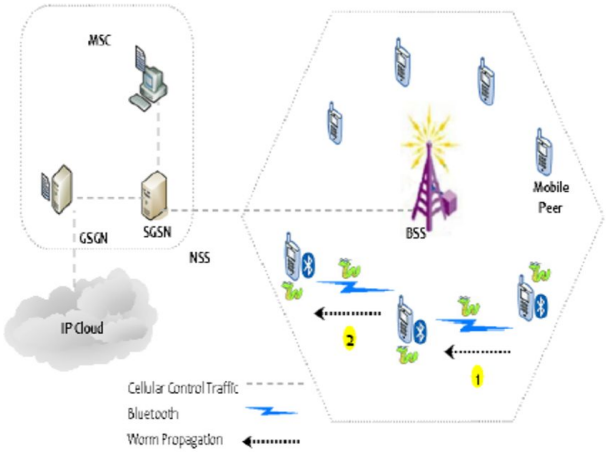
Experiment No 7

Title :
Simulation and Analysis of Wireless attacks Worm using ns2.

Theory :

Flooding attack is characterized by sending more data than the available bandwidth. In flooding_attack.tcl, data transmission from source to destination is carried out via intermediate nodes with excessive data. Attacker drains the energy of its neighbors by sending more data than their available bandwidth.

Malicious Node will create a more no of RREQ to a node, which is even doesn't exist in the network topology. This is how malicious node, start to flood the request in the network. The purpose of this attack is to consume the network bandwidth and to exhaust the network resources all the time.



The worm's code is compatible with mobile phones using ARM series processors with Symbian operating system. Normally, by default the Bluetooth communication feature is off on mobile phones. Mobile phone users might exchange some little programs, and in doing so they open up the Bluetooth communication channel to Cabir-like worms as well.

Procedure/ Algorithm :
WORM:

```
cris@cris-VirtualBox:~/ns2$ cd Exp\ 7\ Worm/
cris@cris-VirtualBox:~/ns2/Exp 7 Worm$ ls
worm.tcl
```

Results :
Worm

```
cris@cris-VirtualBox:~/ns2/Exp 7 Worm$
ns worm.tcl
(0 1) 25Mb 10ms DropTail
(0 2) 25Mb 10ms DropTail
(0 3) 25Mb 10ms DropTail
(0 4) 25Mb 10ms DropTail
(0 83) 25Mb 10ms DropTail
(0 84) 25Mb 10ms DropTail
(0 85) 25Mb 10ms DropTail
(0 86) 25Mb 10ms DropTail
(0 87) 25Mb 10ms DropTail
(0 88) 25Mb 10ms DropTail
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(0 5) 25Mb 10ms DropTail	(0 89) 25Mb 10ms DropTail
(0 6) 25Mb 10ms DropTail	(0 90) 25Mb 10ms DropTail
(0 7) 25Mb 10ms DropTail	(0 91) 25Mb 10ms DropTail
(0 8) 25Mb 10ms DropTail	(0 92) 25Mb 10ms DropTail
(0 9) 25Mb 10ms DropTail	(0 93) 25Mb 10ms DropTail
(0 10) 25Mb 10ms DropTail	(0 94) 25Mb 10ms DropTail
(0 11) 25Mb 10ms DropTail	(0 95) 25Mb 10ms DropTail
(0 12) 25Mb 10ms DropTail	(0 96) 25Mb 10ms DropTail
(0 13) 25Mb 10ms DropTail	(0 97) 25Mb 10ms DropTail
(0 14) 25Mb 10ms DropTail	(0 98) 25Mb 10ms DropTail
(0 15) 25Mb 10ms DropTail	(0 99) 25Mb 10ms DropTail
(0 16) 25Mb 10ms DropTail	(0 100) 25Mb 10ms DropTail
(0 17) 25Mb 10ms DropTail	(0 101) 25Mb 10ms DropTail
(0 18) 25Mb 10ms DropTail	(0 102) 25Mb 10ms DropTail
(0 19) 25Mb 10ms DropTail	(0 103) 25Mb 10ms DropTail
(0 20) 25Mb 10ms DropTail	(0 104) 25Mb 10ms DropTail
(0 21) 25Mb 10ms DropTail	(0 105) 25Mb 10ms DropTail
(0 22) 25Mb 10ms DropTail	(0 106) 25Mb 10ms DropTail
(0 23) 25Mb 10ms DropTail	(0 107) 25Mb 10ms DropTail
(0 24) 25Mb 10ms DropTail	(0 108) 25Mb 10ms DropTail
(0 25) 25Mb 10ms DropTail	(0 109) 25Mb 10ms DropTail
(0 26) 25Mb 10ms DropTail	(0 110) 25Mb 10ms DropTail
(0 27) 25Mb 10ms DropTail	(0 111) 25Mb 10ms DropTail
(0 28) 25Mb 10ms DropTail	(0 112) 25Mb 10ms DropTail
(0 29) 25Mb 10ms DropTail	(0 113) 25Mb 10ms DropTail
(0 30) 25Mb 10ms DropTail	(0 114) 25Mb 10ms DropTail
(0 31) 25Mb 10ms DropTail	(0 115) 25Mb 10ms DropTail
(0 32) 25Mb 10ms DropTail	(0 116) 25Mb 10ms DropTail
(0 33) 25Mb 10ms DropTail	(0 117) 25Mb 10ms DropTail
(0 34) 25Mb 10ms DropTail	(0 118) 25Mb 10ms DropTail
(0 35) 25Mb 10ms DropTail	(0 119) 25Mb 10ms DropTail
(0 36) 25Mb 10ms DropTail	(0 120) 25Mb 10ms DropTail
(0 37) 25Mb 10ms DropTail	(0 121) 25Mb 10ms DropTail
(0 175) 25Mb 10ms DropTail	(0 476) 25Mb 10ms DropTail
(0 176) 25Mb 10ms DropTail	(0 477) 25Mb 10ms DropTail
(0 177) 25Mb 10ms DropTail	(0 478) 25Mb 10ms DropTail
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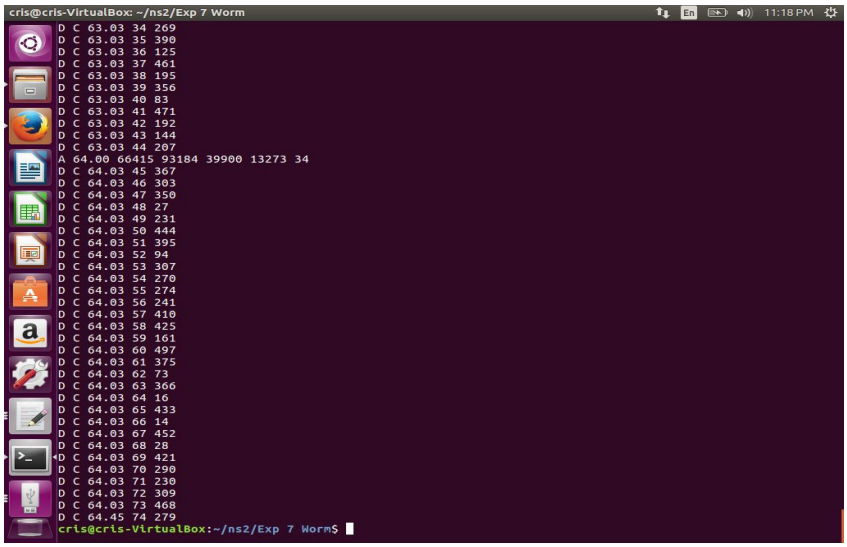
A 35.00 159488 111 39900 0 0 A 36.00 159472 127 39900 0 0 A 37.00 159453 146 39900 0 0 A 38.00 159431 168 39900 0 0 A 39.00 159406 193 39900 0 0 A 40.00 159377 222 39900 0 0 A 41.00 159344 255 39900 0 0 A 42.00 159307 292 39900 0 0 A 43.00 159263 336 39900 0 0 A 44.00 159213 386 39900 0 0 A 45.00 159156 443 39900 0 0 A 46.00 159090 509 39900 0 0 A 47.00 159015 584 39900 0 0 A 48.00 158928 671 39900 0 0 A 49.00 158829 770 39900 0 0	A 63.00 85588 74011 39900 16668 24 D C 63.03 23 343 D C 63.03 24 40 D C 63.03 25 494 D C 63.03 26 415 D C 63.03 27 53 D C 63.03 28 266 D C 63.03 29 222 D C 63.03 30 337 D C 63.03 31 229 D C 63.03 32 23 D C 63.03 33 331 D C 63.03 34 269 D C 63.03 35 390 D C 63.03 36 125

A 50.00 158715 884 39900 0 0	D C 63.03 37 461
A 51.00 158584 1015 39900 0 0	D C 63.03 38 195
A 52.00 158434 1165 39900 0 0	D C 63.03 39 356
A 53.00 158262 1337 39900 0 0	D C 63.03 40 83
A 54.00 158065 1534 39900 0 0	D C 63.03 41 471
A 55.00 157839 1760 39900 0 0	D C 63.03 42 192
A 56.00 157580 2019 39900 0 0	D C 63.03 43 144
A 57.00 157283 2316 39900 0 0	D C 63.03 44 207
A 58.00 156944 2655 39900 0 1	A 64.00 66415 93184 39900 13273 34
D FP 58.03	D C 64.03 45 367
D C 58.03 0 277	D C 64.03 46 303
A 59.00 153600 5999 39900 2956 1	D C 64.03 47 350
D C 59.03 1 35	D C 64.03 48 27
A 60.00 146768 12831 39900 5973 2	D C 64.03 49 231
D C 60.03 2 256	D C 64.03 50 444
D C 60.03 3 349	D C 64.03 51 395
D C 60.03 4 152	D C 64.03 52 94
A 61.00 130835 28764 39900 14179 5	D C 64.03 53 307
D C 61.03 5 199	D C 64.03 54 270
D C 61.03 6 95	D C 64.03 55 274
D C 61.03 7 200	D C 64.03 56 241
D C 61.03 8 475	D C 64.03 57 410
D C 61.03 9 87	D C 64.03 58 425
D C 61.03 10 283	D C 64.03 59 161
A 62.00 107474 52125 39900 19856 13	D C 64.03 60 497
D C 62.03 11 63	D C 64.03 61 375
D C 62.03 12 154	D C 64.03 62 73
D C 62.03 13 238	D C 64.03 63 366



References :

1. Tutorial for ns2

https://www.isi.edu/nsnam
/ns/tutorial/ns.html