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How to use Distance Vector Routing (DV) protocol in NS2?

Description

In Distance Vector (DV), each node sends periodic route updates for every 2 seconds. Apart from the periodic updates, each node/agent triggered updates as a result of changes in the forwarding table in the node if any. This occurs either due to changes in the network topology or the node received a route update and as a result, it composes a fresh route. The test7.tcl shows the sample tcl code that runs the application with DV routing protocol.

Sample Code

```
# Filename: test7.tcl

#----- Routing Protocol -----#

$ns rtproto DV

#-----TCP CONNECTION BETWEEN NODES-----#
$ns at 0.0 "Transmission"
proc Transmission {} {
    global C ROU R ns

    set now [$ns now]
    set time 10.0
    set x 3
    set y 4

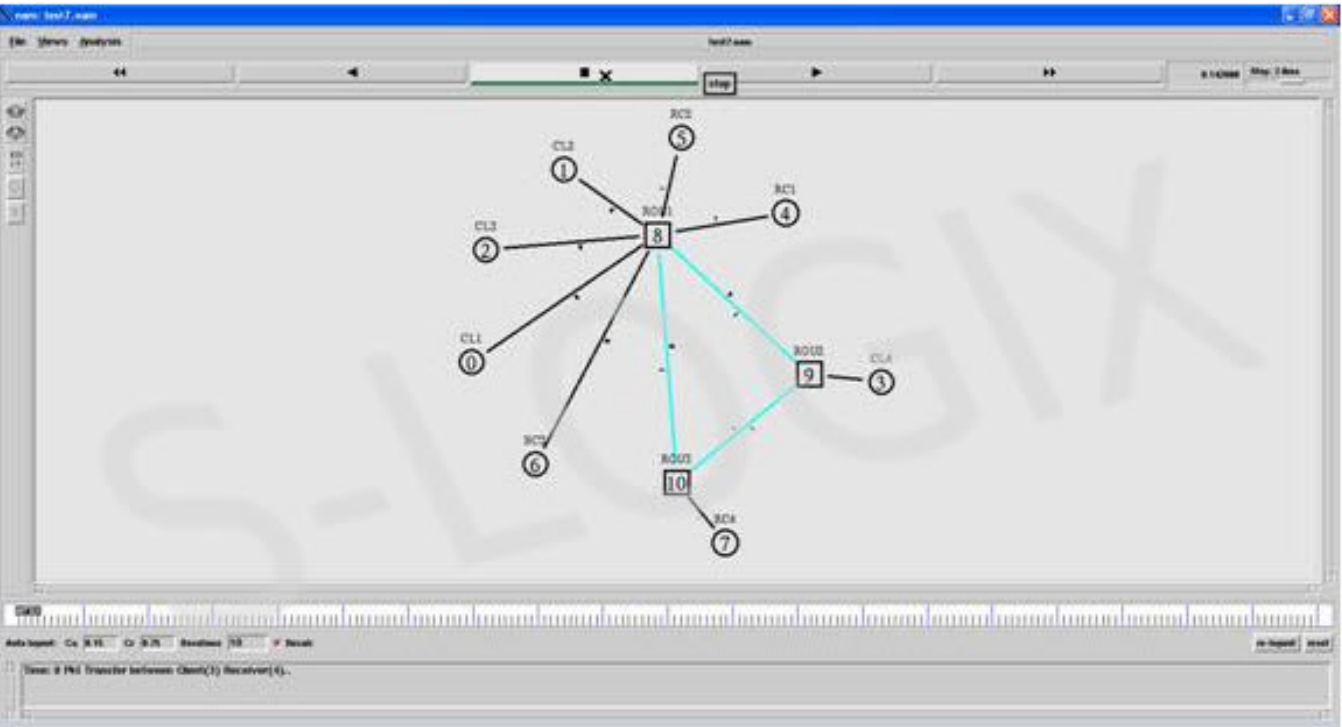
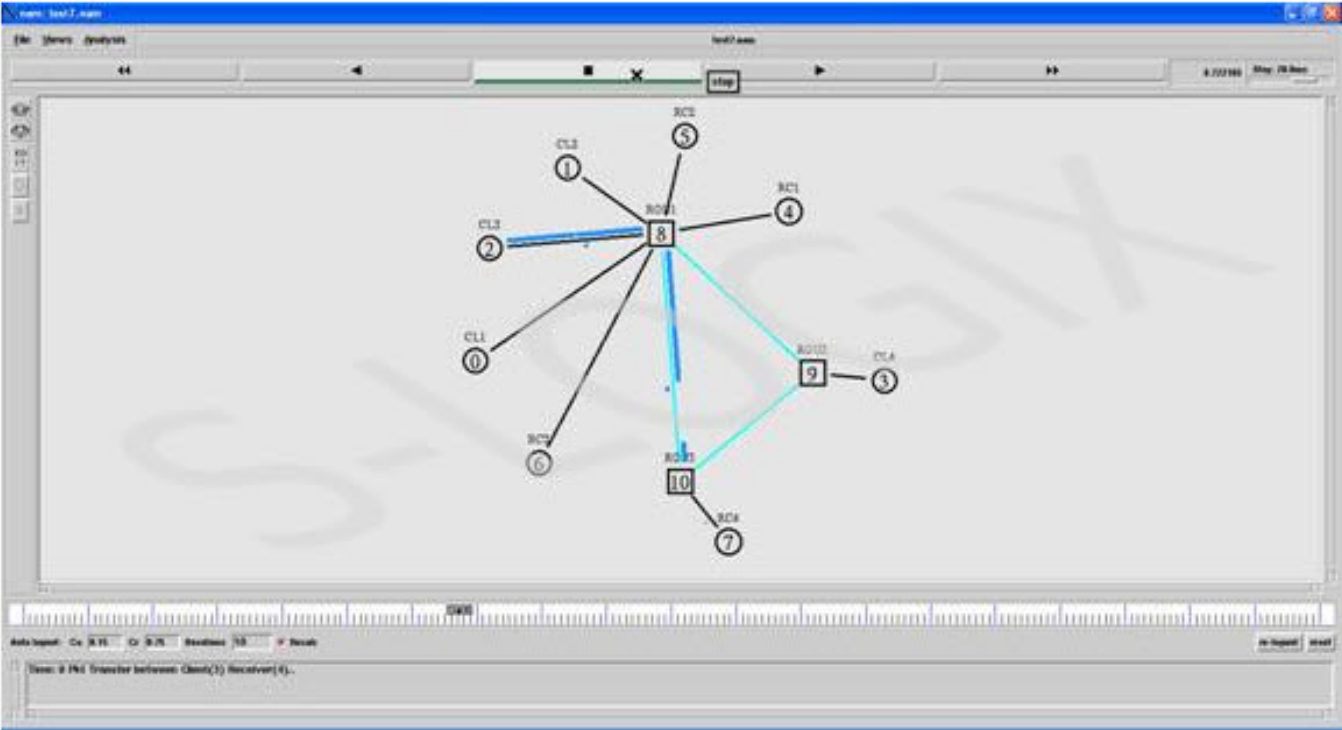
    set tcp1 [$ns create-connection TCP $C($x) TCPSink $R($y) 1]
    $ns at $now "$ns trace-annotate \"Time: $now Pkt Transfer between Client($x) Receiver($y)..\""
    $tcp1 set class_ 1
    $tcp1 set maxcwnd_ 16
    $tcp1 set packetsize_ 4000
    $tcp1 set fid_ 1
    set ftp1 [$tcp1 attach-app FTP]
    $ftp1 set interval_ .005
    $ns at $now "$ftp1 start"
    $ns at [expr $now+$time] "$ftp1 stop"

}
```

Screenshots

Routing process

Data Transmission



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