

MadRouter

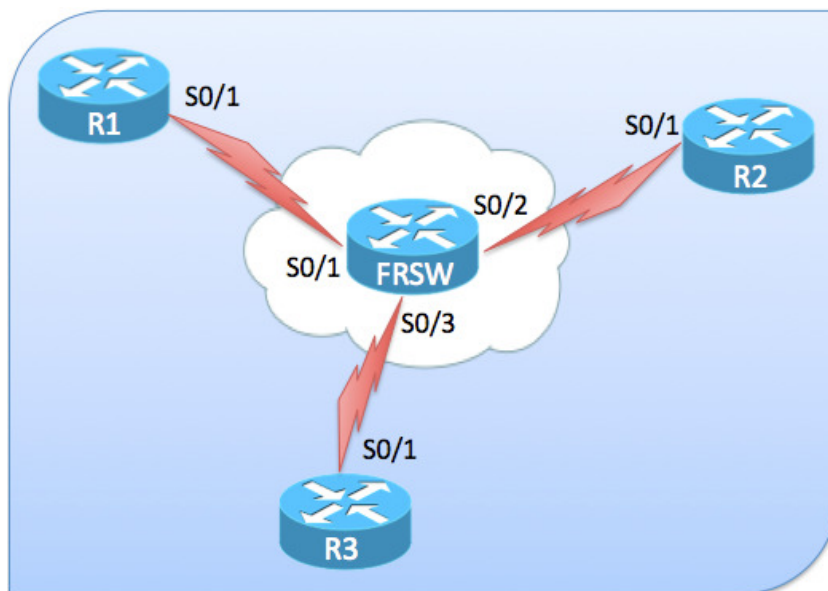
Blah blah blaaaah since 2007

Frame-Relay Multipoint Simple Configuration

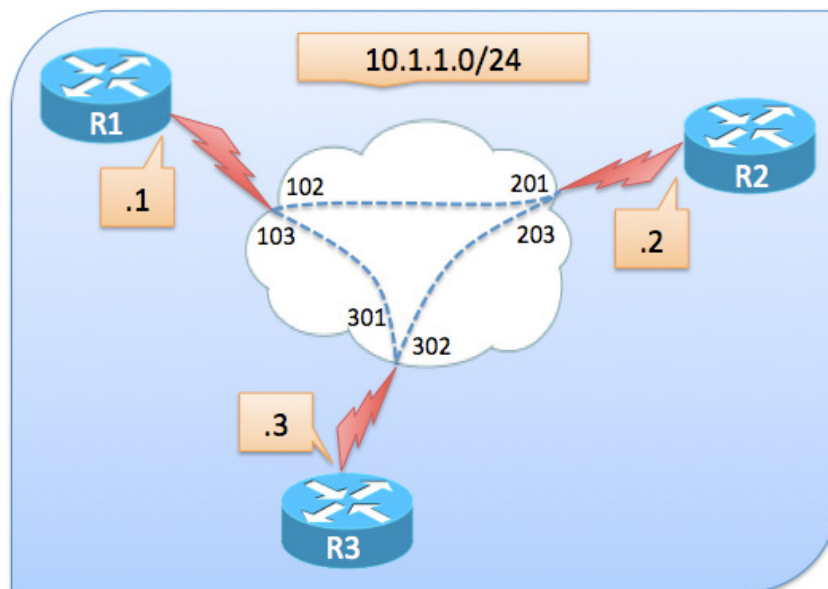
Posted by **Alex** – July 8, 2009

This brief article explains how create a simple F/R Configuration.

Physical Topology:



Logical Topology:



```
1 =====
2  Hostname : R1
3  Platform : 2621XM
4  IOS : 12.3
5  =====
6  !
7  hostname R1
8  !
9  interface Serial0/1
10 ip address 10.1.1.1 255.255.255.0
11 encapsulation frame-relay
12 no dce-terminal-timing-enable
13 frame-relay map ip 10.1.1.2 102 broadcast
14 frame-relay map ip 10.1.1.3 103 broadcast
15 !
16 =====
```

```

17  Hostname : R2
18  Platform : 2621XM
19  IOS : 12.3
20  =====
21  !
22  hostname R2
23  !
24  interface Serial0/1
25  ip address 10.1.1.2 255.255.255.0
26  encapsulation frame-relay
27  no dce-terminal-timing-enable
28  frame-relay map ip 10.1.1.1 201 broadcast
29  frame-relay map ip 10.1.1.3 203 broadcast
30  !
31  =====
32  Hostname : R3
33  Platform : 2621XM
34  IOS : 12.3
35  =====
36  !

```

```

1  [EDIT]
2  hostname R3
3  !
4  interface Serial0/1
5  ip address 10.1.1.3 255.255.255.0
6  encapsulation frame-relay
7  no dce-terminal-timing-enable
8  frame-relay map ip 10.1.1.1 301 broadcast
9  frame-relay map ip 10.1.1.2 302 broadcast
10 !
11 =====
12 Hostname : FRSW
13 Platform : 2621XM
14 IOS : 12.3
15 =====
16 !
17 hostname FRSW
18 !
19 frame-relay switching
20 !
21 interface Serial0/1
22 no ip address
23 encapsulation frame-relay
24 clockrate 64000
25 no dce-terminal-timing-enable
26 frame-relay intf-type dce
27 frame-relay route 102 interface Serial0/2 201
28 frame-relay route 103 interface Serial0/3 301
29 !
30 interface Serial0/2
31 no ip address
32 encapsulation frame-relay
33 clockrate 64000
34 no dce-terminal-timing-enable
35 frame-relay intf-type dce
36 frame-relay route 201 interface Serial0/1 102
37 frame-relay route 203 interface Serial0/3 302
38 !
39 interface Serial0/3
40 no ip address
41 encapsulation frame-relay
42 clockrate 64000
43 no dce-terminal-timing-enable
44 frame-relay intf-type dce
45 frame-relay route 301 interface Serial0/1 103
46 frame-relay route 302 interface Serial0/2 203
47 !

```

Verification:

```

R3 — telnet — 109x24
R3#
R3#vr
Building configuration...
[OK]
R3#sh ip int br
Interface      IP-Address      OK? Method Status          Protocol
FastEthernet0/0 unassigned      YES unset    administratively down down
Serial0/0       unassigned      YES unset    administratively down down
FastEthernet0/1 unassigned      YES unset    administratively down down
Serial0/1       10.1.1.3        YES manual   up              up
Serial0/2       unassigned      YES unset    administratively down down
R3#ping 10.1.1.1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.1, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 36/56/68 ms
R3#ping 10.1.1.2

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.2, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 44/62/68 ms
R3#

```

```

R0 — telnet — 109x24
R2#
R2#vr
Building configuration...
[OK]
R2#sh ip int br
Interface      IP-Address      OK? Method Status          Protocol
FastEthernet0/0 unassigned      YES unset    administratively down down
Serial0/0       unassigned      YES unset    administratively down down
FastEthernet0/1 unassigned      YES unset    administratively down down
Serial0/1       10.1.1.2        YES manual   up              up
Serial0/2       unassigned      YES unset    administratively down down
R2#ping 10.1.1.1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.1, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 32/56/72 ms
R2#ping 10.1.1.3

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.3, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 28/51/84 ms
R2#

```

```

R1 — telnet — 103x24
Building configuration...
[OK]
R1#
R1#sh ip int br
Interface      IP-Address      OK? Method Status          Protocol
FastEthernet0/0 unassigned      YES unset    administratively down down
Serial0/0       unassigned      YES unset    administratively down down
FastEthernet0/1 unassigned      YES unset    administratively down down
Serial0/1       10.1.1.1        YES manual   up              up
Serial0/2       unassigned      YES unset    administratively down down
R1#
R1#ping 10.1.1.3

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.3, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 36/56/72 ms
R1#ping 10.1.1.2

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.2, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 37/53/64 ms
R1#

```