



Section 6 - MULTICAST

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Task 6.1

- Configure Multicast within the DENVER site as per the following requirements:
 - R31 must send an IGMP join message for the multicast group address 229.29.29.29 to R30.
 - Interface Loopback0 of R21 must be configured as the Rendezvous Point.
 - Enable PIM sparse mode on Gi0/0 and Gi0/1 interfaces on R30.
 - Enable PIM sparse mode on Gi0/0 and Gi0/2 interfaces on R20.
 - Enable PIM sparse mode on Gi0/0 and Gi0/3 interfaces on R21.
 - Enable PIM sparse mode on Gi0/0, Gi0/1 and Gi0/2 interfaces on R19.
 - Enable PIM sparse mode on Gi0/1 and Gi0/3 interfaces on R29.
 - Ensure the following ping works:

```
R29#ping 229.29.29.29 repeat 10000
Type escape sequence to abort.
Sending 10000, 100-byte ICMP Echos to 229.29.29.29, timeout is 2 seconds:

Reply to request 0 from 10.30.31.31, 14 ms
Reply to request 1 from 10.30.31.31, 20 ms
Reply to request 2 from 10.30.31.31, 48 ms
Reply to request 3 from 10.30.31.31, 60 ms
```