Address Classes

- Classes A, B and C include all the addresses which are valid to be assigned to hosts
- What about 224.0.0.0 to 255.255.255.255?

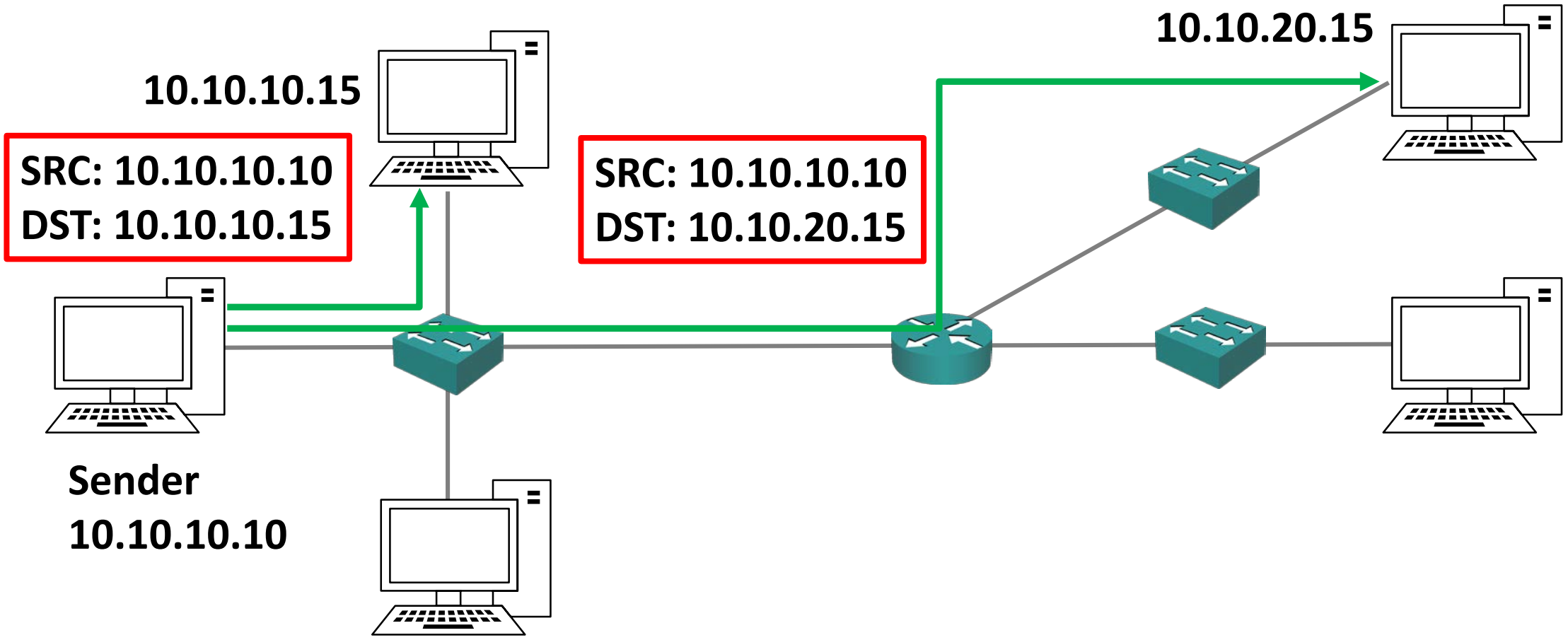
Class D

- *Class D* addresses are reserved for IP multicast addresses.
- The four high-order bits in a class D address are always set to binary 1 1 1 0.
- These addresses are not allocated to hosts and there is no default subnet mask
- Valid addresses range from 224.0.0.0 to 239.255.255.255

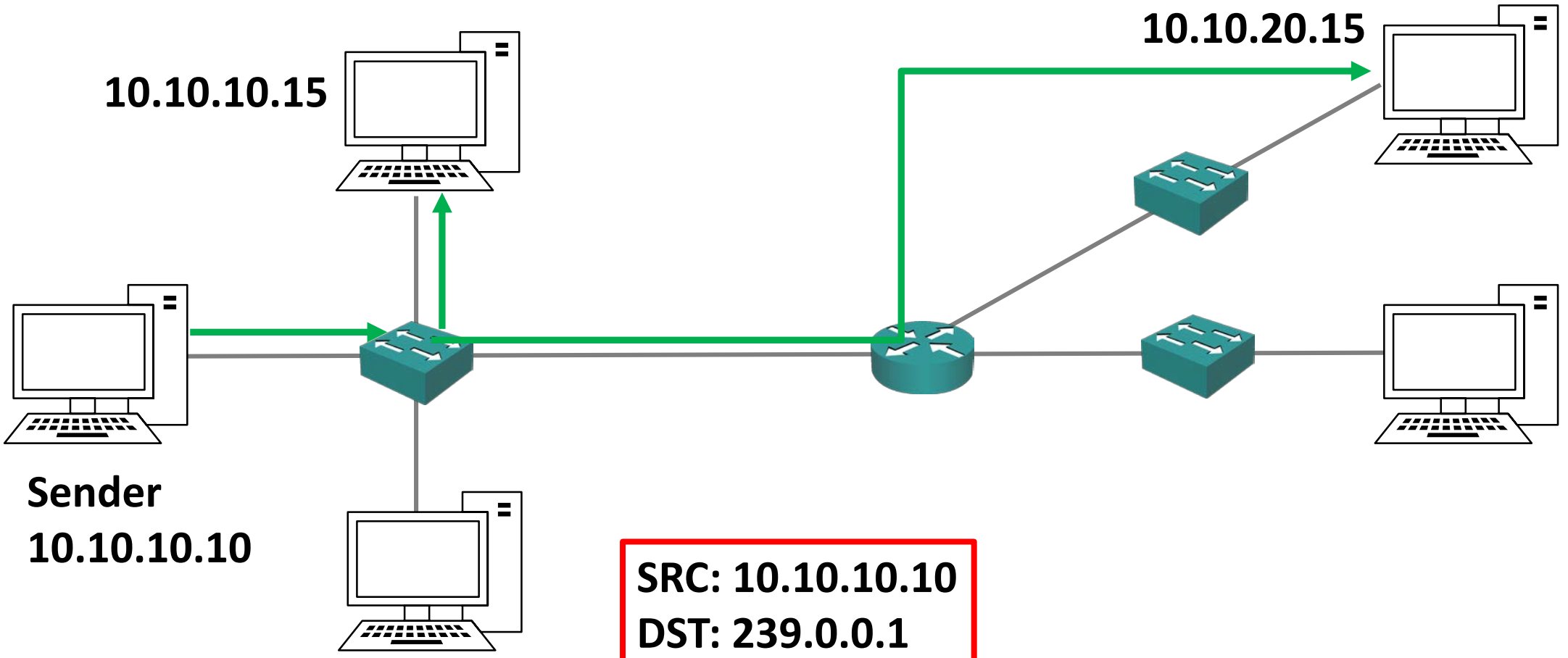
128	64	32	16	8	4	2	1	128	64	32	16	8	4	2	1	128	64	32	16	8	4	2	1	128	64	32	16	8	4	2	1
1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1

- 227.1.192.5

Unicast Traffic



Multicast Traffic



Class E

- *Class E* addresses are ‘experimental and reserved for future use’.
- The high-order bits in a class E address are set to 1111
- These addresses are not allocated to hosts and there is no default subnet mask
- Addresses range from 240.0.0.0 to 255.255.255.255
- 255.255.255.255 is the broadcast address for ‘this network’

128	64	32	16	8	4	2	1	128	64	32	16	8	4	2	1	128	64	32	16	8	4	2	1	128	64	32	16	8	4	2	1
1	1	1	1	0	0	1	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0

- 243.1.192.10

IP Address Class Summary

Class	First Octet	Default Subnet Mask	
		Slash	Dotted Decimal
A	1 - 126	/8	255.0.0.0
B	128 - 191	/16	255.255.0.0
C	192 - 223	/24	255.255.255.0
D	224 - 239		
E	240 - 255		