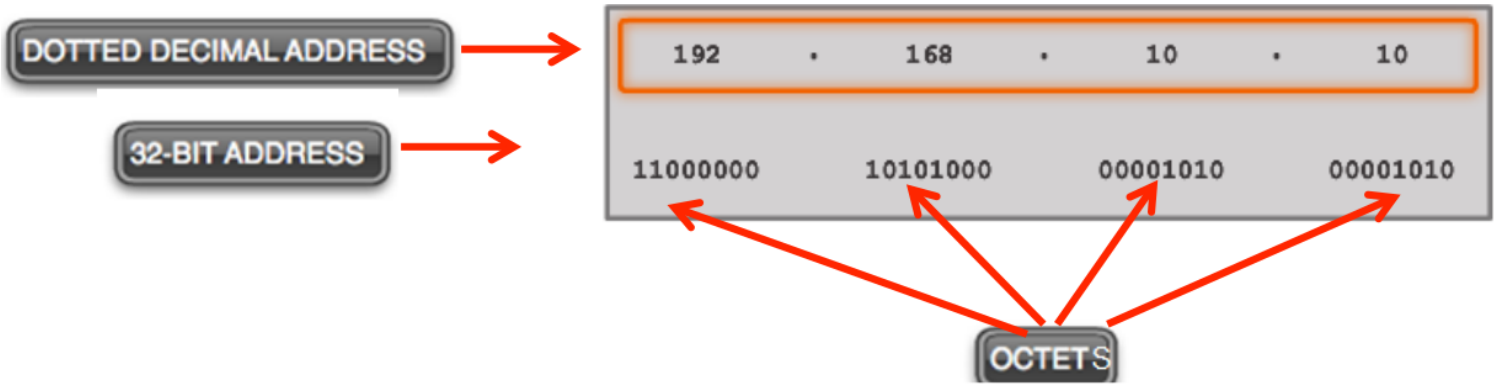
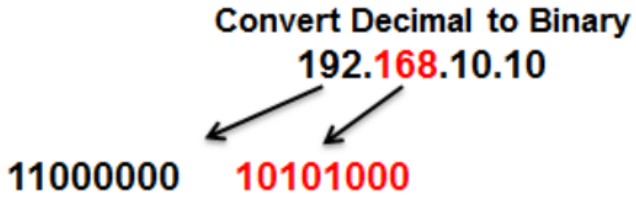
Converting from binary to dot decimal notation



Radix	2	2	2	2	2	2	2	2
Exponent	7	6	5	4	3	2	1	0
Octet Bit Values	128	64	32	16	8	4	2	1
Binary Address	1	1	0	0	0	0	0	0
Binary Bit Values	128	64	0	0	0	0	0	0

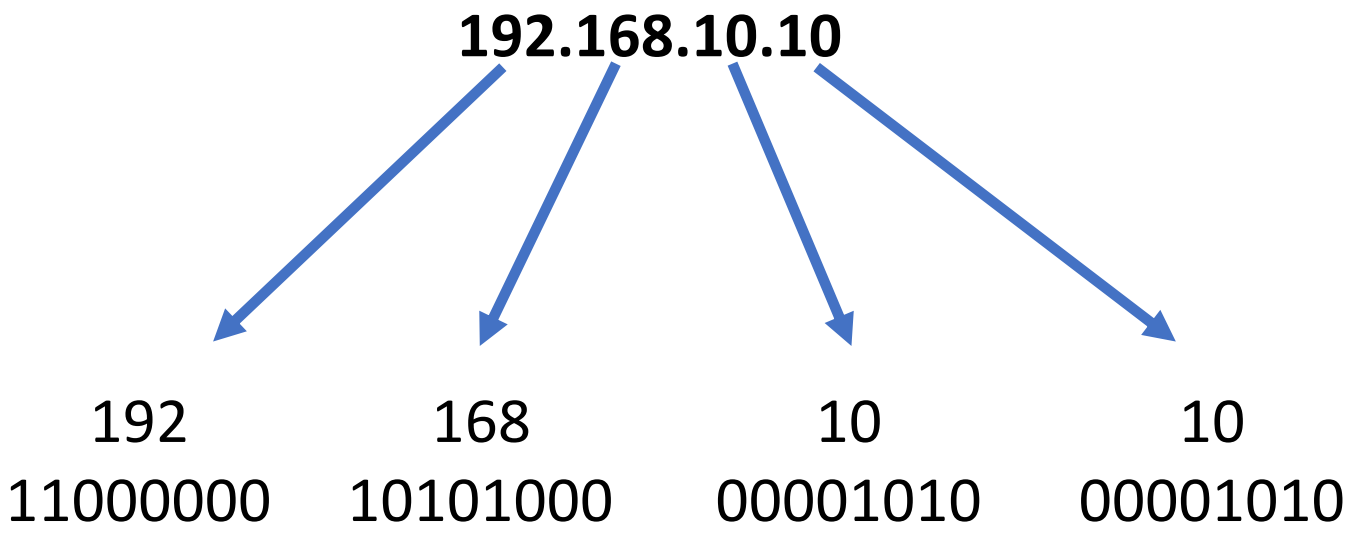
Add the binary bit values. 128 + 64 = 192

Converting from Decimal to Binary



		128	64	32	16	8	4	2	1
168 -128	> 128, place a 1 in the 128 position subtract 128	1							
40	< 64, place a 0 in the 64 position do not subtract	1	0						
40 -32	> 32, place a 1 in the 32 position subtract 32	1	0	1					
8	< 16, place a 0 in the 16 position do not subtract	1	0	1	0				
8	= 8, place a 1 in the 8 position subtract 8	1	0	1	0	1			
0	place a 0 in all remaining positions All done. Result	**1**	**0**	**1**	**0**	**1**	**0**	**0**	**0**

Converting Decimal to Binary



IPv4 Subnet Mask

- A subnet mask is a separate 32-bit pattern used to define the network and host portions of an address.
- Shows where the network portion is in the IP.