ip subnet calculator

Subnets CIDR Wildcard Feedback

Network Class	First Octet Range
а 🔘 в 💿 с 🔘	128 - 191
IP Address	Hex IP Address
172 . 16 . 10 . 222	AC.10.0A.DE
Subnet Mask	Wildcard Mask
255.255.255.224	0.0.031
Subnet Bits	Mask Bits
11 🗘	27 🛟
Maximum Subnets	Hosts per Subnet
(aa	/
2048	30
Host Address Range	30 \$
Host Address Range 172.16.10.193 - 172.16.10.1	30 \$
Host Address Range 172.16.10.193 - 172.16.10.1 Subnet ID	30 ¢
2048 Host Address Range 172.16.10.193 - 172.16.10.3 Subnet ID 172.16.10.192	30 * 222 Broadcast Address 172.16.10.223
Host Address Range 172.16.10.193 - 172.16.10.1 Subnet ID 172.16.10.192 Subnet Bitmap	30 ¢

IP Subnet Calculator

The IP Subnet Mask Calculator enables subnet network calculations using network class, IP address, *subnet mask*, subnet bits, mask bits, maximum required IP subnets and maximum required hosts per subnet.

Results of the subnet calculation provide the hexadecimal IP address, the wildcard mask, for use with ACL (Access Control Lists), subnet ID, broadcast address, the subnet address range for the resulting subnet network and a subnet bitmap.

For classless supernetting, please use the CIDR Calculator. For classful supernetting, please use the IP Supernet Calculator. For simple ACL (Access Control List) wildcard mask calculations, please use the ACL Wildcard Mask Calculator.

Note:

These online network calculators may be used totally *free* of charge provided their use is from this url (www.subnet-calculator.com).

Notes about the Subnet Calculator

- The subnet calculator implements a classful / classed IP addressing scheme where the following rules are adhered to:
 - Class A addresses have their first octet in the range 1 to 126 (binary address begins with 0).
 - Class B addresses have their first octet in the range 128 to 191 (binary address begins with 10).
 - Class C addresses have their first octet in the range 192 to 223 (binary address begins with 110).
- 2. The subnet calculator allows the use of a single subnet bit for example, a class C address with a subnet mask of 255.255.255.128 is permitted.
- 3. The subnet calculator allows a subnet ID to have its final octet equal to the final octet of its subnet mask for example, a class C network address of 192.168.0.192 with a subnet mask of 255.255.255.192 is permitted.

The above is generally accepted as being 'normal', however, certification students should keep in mind that, in some certification programs, the final two points are regarded as inacceptible.

For classless subnetting, you can use the CIDR calculator.