Zachary Nandapurkar

Hw3

1. last valid **172.17.24.14**

2. subnet 5

3. I get 15.

4.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  | | --- | |  | | Decimal IP Address: | 2887161293 | ( [http://2887161293](http://172.22.149.205/) ) | | IP Address: | 172.22.149.205/26**/28** | ( 0xAC1695CD ) | | Subnet Mask: | 255.255.255.240 | ( 0xFFFFFFF0 ) | | Wildcard (Inverse) Mask: | 0.0.0.15 | ( 0x0000000F ) | | Network Address: | 172.22.149.192 | ( 0xAC1695C0 ) | | Broadcast Address: | 172.22.149.207 | ( 0xAC1695CF ) | | Binary IP Address: | **10101100.00010110.10010101.1100**1101 |  | | Binary Subnet Mask: | **11111111.11111111.11111111.1111**0000 |  | | **AND** | http://ccna.exampointers.com/images/blackline.gif |  | | Binary Network Address: | **10101100.00010110.10010101.1100**0000 |  | |  | http://ccna.exampointers.com/images/blackline.gif |  | | Binary Broadcast Address: | **10101100.00010110.10010101.1100**1111 |  | | Class of Address: | B ( [RFC1918](http://www.faqs.org/rfcs/rfc1918.html) ) |  | | Number of Subnets: | 4096 |  | | Number of IP: | 16 |  | | Number of Useable Hosts: | 14 |  | | in-addr.arpa format: | [205/26.149.22.172.in-addr.arpa](http://whois.net/whois/172.22.149.205/26) |  | |  |  |  | | NAT64 Address: | [64:FF9B::AC16:95CD](http://[64:ff9b::ac16:95cd]/) |  | | ISATAP Address: | [FE80::0200:5EFE:AC16:95CD](http://[fe80::200:5efe:ac16:95cd]/) |  | | 6to4: | [2002:AC16:95CD::/48](http://[2002:ac16:95cd::]/) |  |   [<Prev](http://ccna.exampointers.com/sub.php?ip=172.22.149.189&mask=28) **Subnet Network First Usable IP Last Usable IP Broadcast** 0 172.22.149.0 172.22.149.1 172.22.149.14 172.22.149.15 1 172.22.149.16 172.22.149.17 172.22.149.30 172.22.149.31 2 172.22.149.32 172.22.149.33 172.22.149.46 172.22.149.47 3 172.22.149.48 172.22.149.49 172.22.149.62 172.22.149.63 4 172.22.149.64 172.22.149.65 172.22.149.78 172.22.149.79 5 172.22.149.80 172.22.149.81 172.22.149.94 172.22.149.95 6 172.22.149.96 172.22.149.97 172.22.149.110 172.22.149.111 7 172.22.149.112 172.22.149.113 172.22.149.126 172.22.149.127 8 172.22.149.128 172.22.149.129 172.22.149.142 172.22.149.143 9 172.22.149.144 172.22.149.145 172.22.149.158 172.22.149.159 10 172.22.149.160 172.22.149.161 172.22.149.174 172.22.149.175 11 172.22.149.176 172.22.149.177 172.22.149.190 172.22.149.191 **12** **172.22.149.192** **172.22.149.193** **172.22.149.206** **172.22.149.207** |

5.

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| --- |
| http://ccna.exampointers.com/images/blackline.gif |
| Binary Broadcast Address | **00001010.10100110.11110000.0000**1111 |

6. 16 and 14 respectively

7. 16 and 14 as well

8.

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| |  | | --- | |  | | Decimal IP Address: | 2887493195 | ( [http://2887493195](http://172.27.166.75/) ) | | IP Address: | 172.27.166.75 255.255.254.0**/28** | ( 0xAC1BA64B ) | | Subnet Mask: | 255.255.255.240 | ( 0xFFFFFFF0 ) | | Wildcard (Inverse) Mask: | 0.0.0.15 | ( 0x0000000F ) | | Network Address: | 172.27.166.64 | ( 0xAC1BA640 ) | | Broadcast Address: | 172.27.166.79 | ( 0xAC1BA64F ) | | Binary IP Address: | **10101100.00011011.10100110.0100**1011 |  | | Binary Subnet Mask: | **11111111.11111111.11111111.1111**0000 |  | | **AND** | http://ccna.exampointers.com/images/blackline.gif |  | | Binary Network Address: | **10101100.00011011.10100110.0100**0000 |  | |  | http://ccna.exampointers.com/images/blackline.gif |  | | Binary Broadcast Address: | **10101100.00011011.10100110.0100**1111 |  | | Class of Address: | B ( [RFC1918](http://www.faqs.org/rfcs/rfc1918.html) ) |  | | Number of Subnets: | 4096 |  | | Number of IP: | 16 |  | | Number of Useable Hosts: | 14 |  | | in-addr.arpa format: | [75 255.166.27.172.in-addr.arpa](http://whois.net/whois/172.27.166.75%20255) |  | |  |  |  | | NAT64 Address: | [64:FF9B::AC1B:A64B](http://[64:ff9b::ac1b:a64b]/) |  | | ISATAP Address: | [FE80::0200:5EFE:AC1B:A64B](http://[fe80::200:5efe:ac1b:a64b]/) |  | | 6to4: | [2002:AC1B:A64B::/48](http://[2002:ac1b:a64b::]/) |  |   [<Prev](http://ccna.exampointers.com/sub.php?ip=172.27.166.59&mask=28) **Subnet Network First Usable IP Last Usable IP Broadcast** 0 172.27.166.0 172.27.166.1 172.27.166.14 172.27.166.15 1 172.27.166.16 172.27.166.17 172.27.166.30 172.27.166.31 2 172.27.166.32 172.27.166.33 172.27.166.46 172.27.166.47 3 172.27.166.48 172.27.166.49 172.27.166.62 172.27.166.63 **4** **172.27.166.64** **172.27.166.65** **172.27.166.78** **172.27.166.79** |

9.

10. **0** **172.22.16.0** **172.22.16.1** **172.22.16.14** **172.22.16.15**