What Wild Card Mask Will Match Networks 1721600 Through 1721900?

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The question of determining a wildcard mask that encompasses a range of networks, specifically from 1721600 through 1721900, is fundamental in network design and routing configuration. Wildcard masks are critical in access control lists (ACLs), route summaries, and other network management tasks within Cisco and similar networking environments. To accurately identify the wildcard mask that matches the specified network range, it is essential to understand the underlying IP addressing principles, subnetting, and how wildcard masks are derived from subnet masks. This article delves into these concepts, providing a comprehensive explanation and practical steps to determine the appropriate wildcard mask for the network range in question.

Understanding the Basic Concepts

IP Addressing and Subnetting

Before exploring wildcard masks, it's important to grasp the fundamentals of IP addressing and subnetting. An IPv4 address is a 32-bit number divided into four octets, each ranging from 0 to 255. Subnetting involves dividing a network into smaller, manageable subnetworks, which helps optimize IP address utilization and improve network security.

Networks and Subnet Masks

A network address is identified by a combination of an IP address and a subnet mask. The subnet mask determines which part of the IP address refers to the network and which part refers to hosts within that network. For example, a subnet mask of 255.255.255.0 (or /24 in CIDR notation) indicates that the first 24 bits are dedicated to network identification, leaving 8 bits for host addresses.

Wildcards and Their Role

In Cisco networking, a wildcard mask is used in access control lists and other configurations to specify which bits of an IP address should be matched or ignored. It is the inverse of the subnet mask. For example, the subnet mask 255.255.255.0 corresponds to a wildcard mask of 0.0.0.255, meaning that the first three octets must match exactly, while the last octet can be any value.

Analyzing the Network Range: 1721600 to 1721900

Deciphering the Network Addresses

Given the range 1721600 through 1721900, the first step is to interpret these as IP addresses. Since these are large numbers, they likely represent a sequence of IP addresses in decimal form. To work effectively with subnetting and wildcard masks, converting these to dotted-decimal notation is essential.

Conversion of Decimal to Dotted-Decimal Format

Assuming these numbers represent IP addresses in a continuous range, they need to be converted. To do this, consider the following approach:

1. Identify how these numbers map to IP addresses (e.g., are they decimal representations of IPs?).
2. Convert each decimal to its corresponding dotted IP address.

For simplicity, if these numbers are in the format of IP addresses without dots, and considering the network class, they probably correspond to the following IP addresses:

1. 172.16.0.0 (for 1721600)
2. 172.19.0.0 (for 1721900)

Verifying the Range

Assuming the above, the range spans from 172.16.0.0 to 172.19.255.255, covering multiple subnets. To confirm, note that:

1. 172.16.0.0/16 covers 172.16.0.0 through 172.16.255.255
2. 172.17.0.0/16 covers 172.17.0.0 through 172.17.255.255
3. 172.18.0.0/16 covers 172.18.0.0 through 172.18.255.255
4. 172.19.0.0/16 covers 172.19.0.0 through 172.19.255.255

Therefore, the entire range from 172.16.0.0 to 172.19.255.255 is covered by combining these subnets.

Determining the Wildcard Mask for the Range

Choosing the Appropriate Subnet Mask

To encompass all networks from 172.16.0.0 through 172.19.255.255, a suitable subnet mask must cover the entire range with minimal overlap or exclusion. The key is to find the smallest network that includes all these addresses.

Calculating the Summary Network

The goal is to find a supernet (route summary) that covers from 172.16.0.0 to 172.19.255.255. To do this, analyze the binary representations of the starting and ending addresses:

```
172.16.0.0  => 10101100.00010000.00000000.00000000
172.19.255.255 => 10101100.00010011.11111111.11111111
```

Looking at the binary, the common bits at the start are the first 20 bits:

```
10101100.0001  (172.16/12 to 172.19/12)
```

This indicates a /20 prefix can be used to cover the range. The network address would be 172.16.0.0/20, which spans from 172.16.0.0 to 172.16.15.255. But since the range extends beyond 172.16.15.255 up to 172.19.255.255, this is too narrow. Alternatively, a larger network such as 172.16.0.0/14 covers 172.16.0.0

through 172.19.255.255: - 172.16.0.0/14 has a subnet mask of 255.252.0.0 The CIDR notation /14 corresponds to a wildcard mask of 0.3.255.255, but in wildcard format, we need to derive the mask that matches this.

Deriving the Wildcard Mask

Given the subnet mask 255.252.0.0 (or /14), the wildcard mask is computed as:

```
Wildcard Mask = Inverse of Subnet Mask
= 0.3.255.255
```

This wildcard mask matches the network 172.16.0.0/14, which covers the range from 172.16.0.0 to 172.19.255.255, fully encompassing 172.16.0.0 through 172.19.0.0, and thus the range from 1721600 through 1721900.

Summary of the Wildcard Mask

Final Wildcard Mask

1. Wildcard Mask: **0.3.255.255**
2. Corresponding Network: **172.16.0.0 /14**

Practical Application

In a Cisco ACL, for example, to permit all addresses from 172.16.0.0 through 172.19.255.255, you can use:

```
access-list 10 permit 172.16.0.0 0.3.255.255
```

This wildcard mask ensures that all IP addresses within the specified range are matched, simplifying network management and routing configurations.

Conclusion

Identifying the correct wildcard mask to match a range of networks involves understanding CIDR notation, subnetting principles, and binary analysis of IP addresses. In this case, the range from 172.16.0.0 through 172.19.255.255 is effectively covered by the network 172.16.0.0/14, which has a wildcard mask of 0.3.255.255. This approach ensures efficient and accurate network management, enabling administrators to create precise access controls and route summaries.

Wild Card Mask is a crucial concept in network subnetting and access control lists (ACLs), allowing network administrators to specify ranges of IP addresses efficiently. When determining which wild card mask will match a range of IP addresses—specifically from 1721600 through 1721900—it becomes essential to understand how IP addresses are represented, how wild card masks function, and how to calculate the appropriate mask to cover the desired range precisely. This article delves into the intricacies of wild card masks, their relationship with subnetting, and provides comprehensive guidance to identify the correct wild card mask for the IP range 1721600 through 1721900.

Understanding the Basics: IP Addresses and Wild Card Masks

Before exploring how to match a specific IP range with a wild card mask, it is essential to grasp the foundational concepts.

What is an IP Address?

- An IP address is a unique identifier assigned to each device on a network. - IPv4 addresses are 32-bit numbers typically represented in dotted-decimal notation (e.g., 172.16.0.0). - For the purpose of this discussion, the range 1721600 through 1721900 appears to be a simplified or shorthand notation, which likely corresponds to the IP addresses in the 172.16.0.0/12 network or similar.

What is a Wild Card Mask?

- A wild card mask is used in Cisco ACLs to specify a range of IP addresses. - It is derived from a subnet mask but functions differently; instead of indicating network bits, it specifies which bits can vary. - Wild card masks are written as four octets, similar to subnet masks, with each octet indicating which bits are "wild" (can vary) and which are fixed.

Relationship between Subnet Mask and Wild Card Mask

| Subnet Mask | Wild Card Mask | Description | |||| | 255.255.255.0 | 0.0.0.255 | Last octet varies, network is /24 | | 255.255.0.0 | 0.0.255.255 | Last two octets vary, network is /16 | | 255.0.0.0 | 0.255.255.255 | Last three octets vary, network is /8 |

Deciphering the Range 1721600 through 1721900

Given the range of IP addresses from 1721600 through 1721900, we need to interpret these numbers in terms of valid IPv4 addresses.

Likely Interpretation of the Range

The sequence 1721600 to 1721900 suggests a simplified notation, possibly representing: - 172.16.0.0 to 172.19.255.255, or - 172.16.0.0 to 172.19.0.0 with specific IPs mapped accordingly. However, since the numbers are continuous, and considering standard IP address formatting, a plausible interpretation is: - Starting IP: 172.16.0.0 - Ending IP: 172.19.255.255 Alternatively, if the numbers represent the last octet, then: - 172.16.0.0 to 172.16.0.900 (which exceeds the maximum of 255 in an octet) is invalid. Thus, the most logical assumption is that the range corresponds to: 172.16.0.0 – 172.19.255.255 which encompasses all addresses from 172.16.0.0 up to 172.19.255.255.

Calculating the Appropriate Wild Card Mask

To match the range 172.16.0.0 through 172.19.255.255, we must determine the network block that covers this entire address space.

Step 1: Identify the Network Range

- The range spans from 172.16.0.0 to 172.19.255.255. - The network addresses involved are: - Starting network: 172.16.0.0 - Ending network: 172.19.0.0 (but with the last address as 172.19.255.255) - The addresses are within the /16 to /14 range.

Step 2: Find a Suitable Subnet Mask

- The goal is to find a subnet mask that encompasses all addresses from 172.16.0.0 to 172.19.255.255. - Let's analyze: - 172.16.0.0 in binary (first octet): 10101100 - 172.19.255.255 in binary (first octet): 10101100 - The

first octet (172) is fixed; the variation is in the second octet: - 16 to 19 in decimal corresponds to: - 16: 00010000 - 19: 00010011 - The range 172.16.0.0 to 172.19.255.255 covers four /24 networks: - 172.16.0.0/24 - 172.17.0.0/24 - 172.18.0.0/24 - 172.19.0.0/24 - To match all these networks with a single wildcard, we need a mask covering the second octet from 16 to 19.

Step 3: Determine the Wild Card Mask

- The second octet varies from 00010000 (16) to 00010011 (19). - The common bits in the second octet: - 16: 00010000 - 17: 00010001 - 18: 00010010 - 19: 00010011 - The first four bits (0001) are common; the last four bits vary. - Therefore, the wildcard mask for the second octet should be 00001111 (decimal 15). - Combining with the fixed first octet (172): - Network address: 172.16.0.0 - Wildcard mask: 0.15.0.0 - This wildcard mask covers all addresses from 172.16.0.0 to 172.19.255.255.

Final Wild Card Mask and Network Address

Network Address: 172.16.0.0 Wildcard Mask: 0.15.255.255 CIDR Notation: 172.16.0.0 /12 (since /12 covers 172.16.0.0 through 172.31.255.255), but since we want only 172.16.0.0–172.19.255.255, a more precise subnet is: - Subnet: 172.16.0.0/14 - Wild Card Mask: 0.3.255.255 However, to match exactly from 172.16.0.0 to 172.19.255.255, the best fit is: - Network Address: 172.16.0.0 - Wildcard Mask: 0.15.255.255 which matches a range of 172.16.0.0 – 172.19.255.255.

Features, Pros, and Cons of this Wild Card Mask

Features: - Encompasses four /24 networks, providing a broad match for the specified range. - Simplifies ACL configurations by reducing multiple entries. - Compatible with Cisco ACL syntax for efficient network filtering. Pros: - Efficiency: Matches a large IP range with a single ACL statement. - Flexibility: Easily adjustable if the IP range expands. - Clarity: Clear representation of the matched network block. Cons: - Overmatching: May include IP addresses outside the strict intended range if the range isn't precisely aligned. - Complexity: Understanding wild card masks can be challenging for beginners. - Limited granularity: Cannot specify smaller ranges without additional rules or masks.

Alternative Approaches and Considerations

- If precise matching of only 172.16.0.0 to 172.19.255.255 is required, consider creating multiple smaller ACL entries. - Use CIDR notation for clarity and precision, such as 172.16.0.0/12. - For more granular control, combine multiple ACL entries with specific wild card masks.

Conclusion

Matching the IP range 172.16.0.0 through 172.19.255.255 requires a wild card mask that covers these networks efficiently. The best-fit wild card mask in this scenario is 0.15.255.255, which, when combined with the network address 172.16.0.0, encompasses all addresses within the specified range. Understanding how to interpret IP ranges and properly derive wild card masks ensures accurate configuration and effective network management. Whether for ACLs, route summarization, or network design, mastering wild card masks is an essential skill for network professionals seeking precise control over their IP address spaces.

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Questions & Answers About what wild card mask will match networks 1721600 through 1721900?

No	Question	Answer

1	What wildcard mask matches IP addresses in the range 172.16.0.0 through 172.19.255.255?	The wildcard mask that matches the range 172.16.0.0 through 172.19.255.255 is 0.0.15.255.
2	How do I determine the wildcard mask for the IP range 172.16.0.0 to 172.19.0.0?	You can find the wildcard mask by subtracting the network portion from the maximum address, resulting in a wildcard mask of 0.0.15.255 for the range 172.16.0.0 to 172.19.0.0.
3	Is 0.0.15.255 the correct wildcard mask for networks from 172.16.0.0 to 172.19.255.255?	Yes, 0.0.15.255 is the correct wildcard mask to match all IP addresses from 172.16.0.0 through 172.19.255.255.
4	What network addresses does the wildcard mask 0.0.15.255 cover in the 172.16.0.0/12 range?	The wildcard mask 0.0.15.255 covers the networks from 172.16.0.0 to 172.19.255.255 within the 172.16.0.0/12 range.
5	Can I use a wildcard mask to match IP addresses from 172.16.0.0 to 172.19.255.255?	Yes, the wildcard mask 0.0.15.255 can be used in access control lists or routing configurations to match IP addresses within that range.
6	What is the process to find the wildcard mask for a specific IP address range like 172.16.0.0 to 172.19.255.255?	The process involves identifying the network and broadcast addresses for the range, then subtracting the network address from the broadcast address to obtain the wildcard mask, which is 0.0.15.255 in this case.

wildcard mask, network range, subnet mask, IP range, CIDR notation, network address, subnetting, IP subnet, address range, mask calculation

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Core Discussion

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