

自动私有IP寻址技术考题分析(1) PDF转换可能丢失图片或格式，建议阅读原文

https://www.100test.com/kao_ti2020/140/2021_2022__E8_87_AA_E5_8A_A8_E7_A7_81_E6_c100_140379.htm 问题：when a client cannot connect to a dhcp server, what information does an automatic private ip addressing provide? a. default gateway b. subnet mask c. ip address d. dns 0select the 2 best answers(选择两个最佳答案) 当客户端不能够连接到dhcp服务器时，自动私有ip地址分配将提供什么信息？ 解答：如果未能找到某个dhcp服务器，客户计算机将自动配置它们的ip地址和子网掩码，其间要利用从microsoft保留的b类网络169.254.0.0选择的地址，子网掩码为255.255.0.0。 正确答案：bc 参考资料：mcse training kit -- microsoft windows 2000 server 2nd ed .ebook ---chapter 9 network protocols and services -- lesson 2 transmission control protocol/internet protocol using automatic private ip addressing the windows 2000 implementation of tcp/ip supports a new mechanism for automatic address assignment of ip addresses for simple lan-based network configurations. this addressing mechanism is an extension of dynamic ip address assignment for lan adapters, enabling configuration of ip addresses without using static ip address assignment or installing the dhcp service. for the automatic private ip addressing (apipa) feature to function properly on a computer running windows 2000, you must configure a network lan adapter for tcp/ip and click obtain an ip address automatically in the internet protocol (tcp/ip) properties dialog box. the following steps outline how apipa assigns an ip address: windows 2000 tcp/ip attempts to

find a dhcp server on the attached network to obtain a dynamically assigned ip address. in the absence of a dhcp server during startup (for example, if the server is down for maintenance or repairs), the client cannot obtain an ip address. apiPA generates an ip address in the form of 169.254.x.y (where x.y is the client 's unique identifier) and a subnet mask of 255.255.0.0. if the address is in use, apiPA selects another ip address and, if necessary, reselects addresses up to 10 times. note the internet assigned numbers authority (iana) has reserved 169.254.0.0 through 169.254.255.255 for automatic private ip addressing. as a result, apiPA provides an address that is guaranteed not to conflict with routable addresses.

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