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CN ASSIGNMENT 03

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NAT traversal problem is a common term used to refer to a situation, where a server behind a NAT device becomes inaccessible from the public internet. This problem can compromise functionality and effectiveness of many modern applications that utilize peer-to-peer communications. For instance, VOIP based calling services like whatsapp and skype use peer-to-peer communication model for voice calls. To address the NAT traversal problem, many solutions are available. For instance, port forwarding, Internet gateway device discovery protocol, and relaying. There are some other approaches as well!

Please briefly discuss TCP/UDP hole punching schemes with scenario based examples. Also analyze the complexity, and effectiveness of these approaches, against relaying scheme!