CCNA: Introduction to Network

**Module 11 – 11.5: Subnet an Ipv4 Adress**

**I. Subnet on an Octet Boundary**

A screenshot of a computer

AI-generated content may be incorrect.Subnetting (segmenting a network) is a crucial skill in IPv4 network administration. It involves borrowing host bits and using them as network bits, effectively extending the subnet mask. This creates more subnets but reduces the number of hosts per subnet. Subnetting is easiest at octet boundaries (/8, /16, /24). Increasing the prefix length results in fewer available host addresses.

A screenshot of a computer

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A screenshot of a computer

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