**The Network Layer**



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In the second week of this course, we'll explore the network layer in more depth. We'll learn about the IP addressing scheme and how subnetting works. We'll explore how encapsulation works and how protocols such as ARP allow different layers of the network to communicate. We'll also cover the basics of routing, routing protocols, and how the Internet works. By the end of this module, you'll be able to describe the IP addressing scheme, understand how subnetting works, perform binary math to describe subnets, and understand how the Internet works.

**Key Concepts**

* Describe the IP addressing scheme.
* Describe how subnetting works.
* Describe subnets by performing basic math in binary.
* Demonstrate how encapsulation works.
* Describe how ARP protocols allow different layers of the network to communicate.
* Describe how the Internet works.
* Understand the basics of routing and routing protocols.