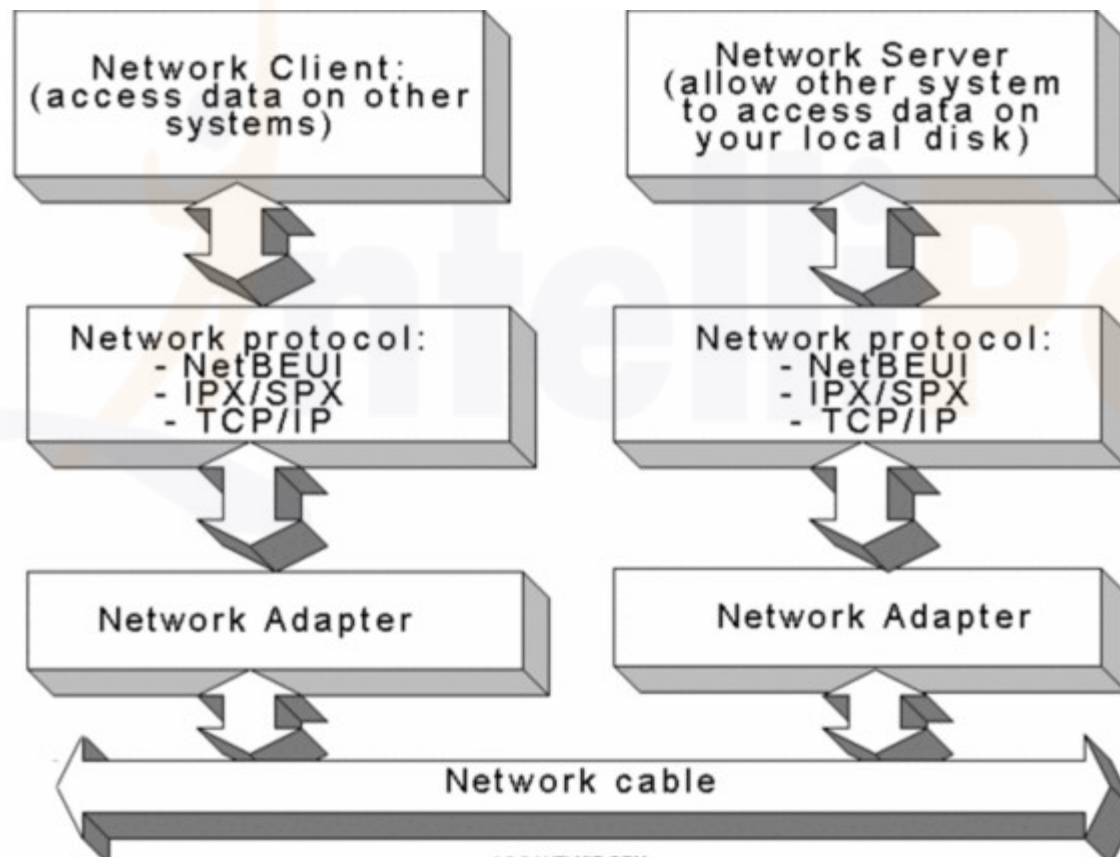# Understand Linux Networking

Agenda

- Networking Basics
- Linux Networking
- Network Hardware
- Network Commands
- Configuring a Network
- DHCP & DNS Concepts

Networking Basics

How two systems communicate over a network:

Linux Networking

TCP/IP stack:

Kernel controls the TCP/IP protocol

Ethernet adapter is hooked to the kernel in with the ifconfig command

`ifconfig` reveals the ip address as well as netmask and broadcast addresses

Network Hardware

- Typically linux finds the NIC (PCI) at bootup but the administrator needs to tell linux that the card is to be enabled.
- If linux doesn't discover the NIC (network interface card) you must assign the card type, interrupt and base address for the card in the linux kernel.

Network Commands

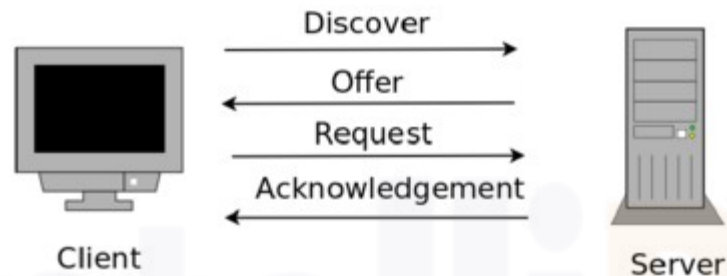- ifconfig
- netstat
- ping
- traceroute
- route

Configuring a Network

- Configuring a Static IP

- Configuring a Dynamic IP

- DNS client setup

- DHCP client setup

DHCP & DNS Concepts

- DHCP

- DNS

Thank You

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