**Overview of ipconfig**

The ipconfig command is used in Windows to display and manage network configurations, including IP addresses, subnet masks, and default gateways. It is a diagnostic tool that helps users view the current network settings and configure certain network features.

**Key Components of ipconfig**

1. **Display Adapter Information**:
   * Shows the IP address, subnet mask, and gateway for each network adapter.
2. **Renewing/DHCP**:
   * Refreshes IP configurations by releasing and renewing DHCP leases.
3. **DNS Configuration**:
   * Displays DNS server details for each interface.

**How It Works**

1. **Display Network Configuration**:
   * Running ipconfig with no options shows current IP settings for all adapters.
2. **Release and Renew**:
   * ipconfig /release and ipconfig /renew release or renew DHCP leases.

**Conclusion**

ipconfig is essential for managing and troubleshooting network configurations on Windows systems. It enables users to view and update their IP settings, release/renew DHCP leases, and troubleshoot DNS and network issues.