Configuring WiFi Adapters

Objectives:

At the end of this episode, I will be able to:

1. Differentiate between configuration options for physical and wireless network adapters.
2. Describe Wi-Fi security options and their appropriate use.

> Additional resources used during the episode can be obtained using the download link on the overview episode.

- Wi-Fi Network Settings

    - Enable Wi-Fi

        - `System Preferences -> Network -> Interface -> Turn Wi-Fi On`
        - Wireless icon in menu bar

    - OS X will automatically connect to non-secure networks

        - At power on
        - At resume
        - Can be disabled using the *Ask to Join New Networks* option in the system preferences

    - Secure networks require authentication

        - Prompted to enter credentials

- Credentials can be a pre-shared key (PSK or password)

    - Password is stored in the user's keychain
    - Not shared between users on the system

- Credentials can be certificate based

    - 802.1x
    - WPA Enterprise and WPA2 Enterprise
    - Certificates are stored in the system keychain
    - Available to all users

- SSID

    - Service Set Identifier
    - Name that identifies a wireless network
    - Typically broadcast out every few seconds
    - Can be hidden
    - If hidden, you must manually type the SSID name by using the *Join Other Network* option

- Ad Hoc Networks

    - Wireless network built between two Macs
    - Use the *Create Network* option in the menu bar