

Application Security

Objectives:

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

1. Describe macOS security features including gatekeeper, application sandboxes, and digital signatures.
2. Describe and configure macOS privacy controls.

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

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- Application Security
 - Digitally Signed
 - 64-bit
 - Bundles
 - Bundles can contain anything
 - Related files grouped together into a single file
 - *.app
 - Can easily be copied into /Applications eliminating the need for an installer
 - app files are really just folders with an icon
 - Ctrl-Click -> Show Package Contents
 - GateKeeper
 - Restricts which apps are allowed to run
 - System Preferences -> Security & Privacy -> General
 - App Store
 - App Store and identified developers
 - Can be overridden by an administrator
 - Control-Click -> Open
 - Application Sandboxing
 - Protected memory
 - A sandboxed application has a protected memory space
 - No other application is allowed to access that space
 - Ensures one application cannot crash another
 - Preferences / Application Support isolation
 - Files associated with the application are removed from the common locations to isolated locations on the drive
 - Old - /Users/username/Library/Preferences
 - New - /Users/username/Library/Containers/<application>/Data/Library/Preferences
 - Privacy Controls
 - Apple Menu -> System Preferences -> Security & Privacy -> Privacy
 - Enable/Disable Location Services
 - Control which apps can access contacts, calendars, and reminders
 - Enable accessibility access for apps
 - System Information
 - /Applications/Utility/System Information
 - Displays data regarding your system
 - Software section details all installed software

