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24C3: Inside the Mac OS X KernelHow to Install OS X or macOS onto a new blank Hard Drive (Fresh Installation) How to update the software on your Mac — Apple SupportHow to reinstall macOS from macOS Recovery — Apple Support
How to Install macOS 10.15 Catalina on an Unsupported MacHow To Update macOS to Latest macOS MacBook Mid-2012-10.8.6 to 10.11.6 How to create a bootable macOS Catalina USB Install drive Install or Reinstall OS X from the Internet - Replacing MacBook Pro Hard Drive - Part 2

Apple won't like this... — Run MacOS on ANY PC

How to install Windows 10 on a Mac using Boot Camp AssistantMAC: How To Install OS X After Formatting Your Hard Drive - Factory Reset / Fresh Reinstall OSX 10 Ways MacOS is just BETTER Factory Reset any Mac in under 3 minutes!! How to free up space on your Mac — Apple SupportMac OS vs Linux | Which is better for you? How to Install macOS in VirtualBox How to Downgrade Mac OS X to an older version How to restore OS X MacBook Pro in new Hard drive Linux that looks like Mac How to back up your Mac with Time Machine — Apple SupportHow to Clean Install macOS Catalina? - Create macOS Catalina Bootable USB and Install How To Upgrade To macOS Catalina | How to Install macOS 10.15 Catalina on Mac Switching from Windows to Mac: Everything You Need to Know (Complete Guide) How to install macOS (Big Sur, Catalina, Mojave, High Sierra, Sierra and El Capitan). #HITBGSEC 2016 SG Conference Track D1 - The Apple Sandbox: Deeper Into The Quagmire - Jonathan Levin MacOS Big Sur review New to Mac - Mojave Edition *** FULL CLASS

Run ANY OS on iPad or iPhone!macOS Big Sur: What's New? macOS Big Sur is Out!—What's New? (Every Change and Update) 099105556x Macos And Ios Internals

Shortly after Wednesday ’ s keynote, the company outlined which desktops and laptops would be able to install the new version of macOS ... has almost the exact same internals at the base spec.

Apple's WWDC announcements should worry anyone with an Intel Mac
This means the internals keep cool ... based on the version in iOS. It looks neater, and it's easier to use. All applications that you usually run in macOS on Intel-based MacBooks should work ...

Apple MacBook Air (M1, 2020) review
Thus the file containing it can be retrieved from iOS and unpacked, leading to some interesting analysis. In a fascinating twist for those of us unused to Lightning ’ s internals, it ’ s revealed ...

Apple Lightning Video Adaptors Run iOS, Dynamically Loaded
That said, it will likely require OS X Mavericks, a thematically fitting release for a product that represents a new wave in Apple's design. Some have said that iOS 7 may be the company's New Coke.

Switched On: Form in the USA
Today Apple launched the latest versions of two of its apps aimed at music creators: Logic Pro X 10.3 for macOS and GarageBand ... and beefed up internals driving the app including a 64-bit summing ...

Logic Pro X and GarageBand for iOS Get Significant Updates
While the internals remain the same here as on the ... huge issue with using the Galaxy Tab 10.1 in conjunction with OS X. For whatever reason, Android File Transfer still hasn't been updated ...

Samsung Galaxy Tab 10.1 review
Thus the file containing it can be retrieved from iOS and unpacked, leading to some interesting analysis. In a fascinating twist for those of us unused to Lightning ’ s internals, it ’ s revealed ...

Apple Lightning
Auto Layout - This is a big one, and points to the possibility of iOS devices with differing resolutions. It's a carry-over from Mac OS X and allows developers to ... that lets web developers look ...

The Rest of the New Features of iOS 6
and its internals. Huawei didn ’ t go back to the drawing board for the Watch GT2, but, instead, took the predecessor to a new level refining some of its aspects. We now have a larger display with ...

Huawei Watch GT2 leaks with larger screen, smaller bezel
Both the Huawei P30 and Huawei P30 Pro have visited Taiwan ’ s NCC (National Communications Commission), and the certifications reveal some of the internals. The Huawei P30, most likely with the ...

Huawei P30 and P30 Pro certifications reveal specs
Apple is also making iWork on OS X free, following a similar move for the iOS version ... When the original iPad Mini launched, it had the internals of the iPad 2 stuffed inside a smaller form ...

What Apple's new iPad Air means for investors
With iOS 15 installed on our test device, we walk you through all of the new features you can expect to see in the fall. Live Text is a new feature in iOS 15, iPadOS 15, and macOS Monterey that ...

iPad mini
Apple is expected to launch an updated iPod touch next week, a refresh that is likely to bring new colors and updated internals ... a new feature in iOS 15, iPadOS 15, and macOS Monterey that ...

iPod shuffle
Cytotec is expecting higher demand this year for its parts, because Apple is bringing 5G millimeter-wave to more regions which necessitates more complicated inductors and internals circuitry.

On schedule, Apple reportedly pulls in component orders for iPhone 13 production
Over the past couple of years, we ’ ve seen macOS evolve into an operating system that sits in a comfortable spot alongside iPadOS and iOS. Now we ’ re seeing the ... today ’ s M1 Macs break with the past ...

The M1 Mac mini and MacBook Air: A Giant Leap Forward for All Mac Users
Apple hosted its annual Worldwide Developers Conference (WWDC) this year, where the company announced iOS 14 for iPhones, iPadOS 14, macOS Big ... new iMac with updated internals and a new design.

Everything Apple didn't announce at WWDC 2020: AirPods Studio, AirTags, and more
The thinness and super packed internals argument simply doesn ’ ... On the plus side, macOS and iOS/iPadOS work together very, very well with nearly seamless cross integration of apps and features.

2020 Apple MacBook Air review: A premium laptop for the masses
The new architecture is also closer to what you'd find in Apple's phones, so iOS apps on macOS should run with ... modest but dependable internals, and a simply great display.

Best Ultrabook 2021: Powerful and Ultra-Lightweight Laptops
That ’ s notable, because macOS Monterey does support the late 2014 Mac Mini, the base model of which... packs a 1.4GHz Intel Core i5-4260U (Haswell) CPU with 4GB of RAM and Intel HD Graphics 5000.

Apple's WWDC announcements should worry anyone with an Intel Mac

An in-depth look into Mac OS X and iOS kernels Powering Macs, iPhones, iPads and more, OS X and iOS are becoming ubiquitous. When it comes to documentation, however, much of them are shrouded in mystery. Cocoa and Carbon, the application frameworks, are neatly described, but system programmers find the rest lacking. This indispensable guide illuminates the darkest corners of those systems, starting with an architectural overview, then drilling all the way to the core. Provides you with a top down view of OS X and iOS Walks you through the phases of system startup—both Mac (EFI) and mobile (iBoot) Explains how processes, threads, virtual memory, and filesystems are maintained Covers the security architecture Reviews the internal Apis used by the system—BSD and Mach Dissects the kernel, XNU, into its sub components: Mach, the BSD Layer, and I/O Kit, and explains each in detail Explains the inner workings of device drivers From architecture to implementation, this book is essential reading if you want to get serious about the internal workings of Mac OS X and iOS.

Mac OS X was released in March 2001, but many components, such as Mach and BSD, are considerably older. Understanding the design, implementation, and workings of Mac OS X requires examination of several technologies that differ in their age, origins, philosophies, and roles. Mac OS X Internals: A Systems Approach is the first book that dissects the internals of the system, presenting a detailed picture that grows incrementally as you read. For example, you will learn the roles of the firmware, the bootloader, the Mach and BSD kernel components (including the process, virtual memory, IPC, and file system layers), the object-oriented I/O Kit driver framework, user libraries, and other core pieces of software. You will learn how these pieces connect and work internally, where they originated, and how they evolved. The book also covers several key areas of the Intel-based Macintosh computers. A solid understanding of system internals is immensely useful in design, development, and debugging for programmers of various skill levels. System programmers can use the book as a reference and to construct a better picture of how the core system works. Application programmers can gain a deeper understanding of how their applications interact with the system. System administrators and power users can use the book to harness the power of the rich environment offered by Mac OS X. Finally, members of the Windows, Linux, BSD, and other Unix communities will find the book valuable in comparing and contrasting Mac OS X with their respective systems. Mac OS X Internals focuses on the technical aspects of OS X and is so full of extremely useful information and programming examples that it will definitely become a mandatory tool for every Mac OS X programmer.

OS X Incident Response: Scripting and Analysis is written for analysts who are looking to expand their understanding of a lesser-known operating system. By mastering the forensic artifacts of OS X, analysts will set themselves apart by acquiring an up-and-coming skillset. Digital forensics is a critical art and science. While forensics is commonly thought of as a function of a legal investigation, the same tactics and techniques used for those investigations are also important in a response to an incident. Digital evidence is not only critical in the course of investigating many crimes but businesses are recognizing the importance of having skilled forensic investigators on staff in the case of policy violations. Perhaps more importantly, though, businesses are seeing enormous impact from malware outbreaks as well as data breaches. The skills of a forensic investigator are critical to determine the source of the attack as well as the impact. While there is a lot of focus on Windows because it is the predominant desktop operating system, there are currently very few resources available for forensic investigators on how to investigate attacks, gather evidence and respond to incidents involving OS X. The number of Macs on enterprise networks is rapidly increasing, especially with the growing prevalence of BYOD, including iPads and iPhones. Author Jaron Bradley covers a wide variety of topics, including both the collection and analysis of the forensic pieces found on the OS. Instead of using expensive commercial tools that clone the hard drive, you will learn how to write your own Python and bash-based response scripts. These scripts and methodologies can be used to collect and analyze volatile data immediately. For online source codes, please visit: https://github.com/jbradley89/osx_incident_response_scripting_and_analysis Focuses exclusively on OS X attacks, incident response, and forensics Provides the technical details of OS X so you can find artifacts that might be missed using automated tools Describes how to write your own Python and bash-based response scripts, which can be used to collect and analyze volatile data immediately Covers OS X incident response in complete technical detail, including file system, system startup and scheduling, password dumping, memory, volatile data, logs, browser history, and exfiltration

Despite using them every day, most software engineers know little about how programming languages are designed and implemented. For many, their only experience with that corner of computer science was a terrifying "compilers" class that they suffered through in undergrad and tried to blot from their memory as soon as they had scribbled their last NFA to DFA conversion on the final exam. That fearsome reputation belies a field that is rich with useful techniques and not so difficult as some of its practitioners might have you believe. A better understanding of how programming languages are built will make you a stronger software engineer and teach you concepts and data structures you'll use the rest of your coding days. You might even have fun. This book teaches you everything you need to know to implement a full-featured, efficient scripting language. You'll learn both high-level concepts around parsing and semantics and gritty details like bytecode representation and garbage collection. Your brain will light up with new ideas, and your hands will get dirty and calloused. Starting from main(), you will build a language that features rich syntax, dynamic typing, garbage collection, lexical scope, first-class functions, closures, classes, and inheritance. All packed into a few thousand lines of clean, fast code that you thoroughly understand because you wrote each one yourself.

If you ’ re grounded in the basics of Swift, Xcode, and the Cocoa framework, this book provides a structured explanation of all essential real-world iOS app components. Through deep exploration and copious code examples, you ’ ll learn how to create views, manipulate view controllers, and add features from iOS frameworks. Create, arrange, draw, layer, and animate views that respond to touch Use view controllers to manage multiple screens of interface Master interface classes for scroll views, table views, collection views, text, popovers, split views, web views, and controls Dive into frameworks for sound, video, maps, and sensors Access user libraries: music, photos, contacts, and calendar Explore additional topics, including files, networking, and threads Stay up-to-date on iOS 14 innovations, such as: Control action closures and menus Table view cell configuration objects Collection view lists and outlines New split view controller architecture Pointer customization on iPad New photo picker and limited photos authorization Reduced accuracy location Color picker, new page control behavior, revised date pickers, and more! Want to brush up on the basics? Pick up iOS 14 Programming Fundamentals with Swift to learn about Swift, Xcode, and Cocoa. Together with Programming iOS 14, you ’ ll gain a solid, rigorous, and practical understanding of iOS 14 development.

Delve inside Windows architecture and internals - and see how core components work behind the scenes. This classic guide has been fully updated for Windows 8.1 and Windows Server 2012 R2, and now presents its coverage in three volumes: Book 1, User Mode; Book 2, Kernel Mode; Book 3, Device Driver Models. In Book 1, you'll plumb Windows fundamentals, independent of platform - server, desktop, tablet, phone, Xbox. Coverage focuses on high-level functional descriptions of the various Windows components and features that interact with, or are manipulated by, user mode programs, or applications. You'll also examine management mechanisms and operating system components that are implemented in user mode, such as service processes. As always, you get critical insider perspectives on how Windows operates. And through hands-on experiments, you'll experience its internal behavior firsthand - knowledge you can apply to improve application design, debugging, system performance, and support. Planned chapters: Concepts & Tools; System Architecture; Windows Application Support; Windows Store Apps, Graphics & the Desktop; Management Mechanisms; User Mode Memory Management; Security; Storage; Networking; Hyper-V.

This definitive guide starts by helping you to understand the macOS system from the ground up. You'll extend your knowledge of managing, configuring, and administering your macOS environment through expert tips and techniques. The book will enable you to realize the full potential of the latest macOS features and be prepared for the ACSP exam.

Explore macOS tools and architecture for executing support tasks and system administration, and prepare for the Apple Certified Support Professional (ACSP) certification exam Key Features Delve into macOS Big Sur, from installation to managing apps and optimizing your environment Become an Apple Certified Support Professional (ACSP) with this comprehensive macOS support guide The book is not intended to be a user guide, it covers concepts pertinent for a user acting as an administrator Book Description Apple is pushing the capabilities of its technologies to help users achieve high performance, including improvements in its OS running across all Mac systems, macOS, and new technologies such as M1 Silicon chips. This book walks you through macOS from a system administration and support point of view, exploring its latest features. The book starts by explaining macOS architecture, installation, and startup processes to enable you to get started with the OS. You'll learn how to manage users and discover techniques for user security and privacy. Moving on, you'll get to grips with the macOS file system and learn to manage disks, volumes, and partitions for effective file management. Most of the examples covered in this book are from an administrator's perspective; however, when relevant, a standard user's perspective is also presented. You'll find illustrations for Mac systems running macOS 11 (Big Sur), and when necessary, for macOS 10.15 (macOS Catalina). Finally, you'll explore advanced topics such as networking and using command-line tools for administration tasks. By the end of this macOS book, you'll be well-versed with macOS features, administration tasks, and best practices. You'll also be able to apply the concepts to increase your chances of success in obtaining Apple certifications such as Apple Certified Support Professional (ACSP). What you will Learn Understand the fundamentals of the macOS system and architecture Configure key services and perform essential troubleshooting in your Mac system Install, update, and configure your local macOS system and identify the stages of the startup process Create and manage a local user account and set up your customized macOS environment Manage your file systems, storage, and permissions Explore practices and techniques to work with apps, networks, and security for your Mac system Delve into administration tasks such as managing service resources and peripherals Who this book is for If you are a Mac system administrator, support and help desk technician or engineer, or Mac power user looking to explore macOS architecture and tooling, then this book is for you. The book assumes beginner-level knowledge of the macOS environment and system administration.

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