

A Comparative Study of Operating Systems: Case of Windows, UNIX, Linux, Mac, Android and iOS

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ABSTRACT

Varieties of operating systems (OS) have emerged over the years having different features and functionalities. Understanding the functionalities of each OS guides users' decisions about the OS to install on their computers. In view of this, the comparative analysis of different OS is needed to provide details on the similarities and difference in recent types of OS vis-à-vis their strengths and weaknesses. This paper focus on the comparative analysis of Windows, Unix, Linux, Mac, Android and iOS operating systems based on the OS features and their strengths and weaknesses. A qualitative analysis of six different operating systems and result showed that Windows 10 had 0.04 malware file present while Windows 7 machine was 0.08. Higher percentage of mobile malware target Androids than iOS. Windows 10, Linux, UNIX and Mac OS are more secured and reliable. Windows and Android are more popular, user-friendly, easy to use and allow more application program than Mac OS. Linux and Android are free while Windows is moderately costly and Mac OS is very costly. Except for Mac and iOS others allow compatibility. Windows 10 and Mac OS integrated firewall. Windows and Android tend to be the most widely used especially the newest versions. It is because they are affordable, secure, reliable, compatible and user friendly. This study helps to provide some guides to both end-users and developers guiding them in taking decisions about operating systems that are most suitable for them.

General Terms

Operating System

Keywords

Operating System, Windows, Linux, Mac, UNIX, Android, iOS, Comparative Analysis

1. INTRODUCTION

Operating System (OS) is software that manages and controls the main computer hardware, the hardware peripherals and software resources, so also the users. It also offers the platform and support for application programs and acts as an interface between the computer user, programmers inclusive, and the computer hardware [1]. Applications software like word processors, spreadsheets, databases, and other dedicated applications that businesses need, run on a given OS platform.

Operating systems provide standard services for processes implementation such as storage, deadlock, scheduling and other processes. It also provides a programming environment that enables a user to write and execute programs in a much convenient and efficient way. Every computer system including desktops, laptops, tablets, supercomputers, hand-

held and even video game consoles use some type of operating system. There are numerous types of operating systems in today's ICT world. Mac Operating System designed and owned by Apple Inc., Windows by Microsoft Inc., Linux by Community, likewise Android by Google Inc. and others.

Varieties of Operating Systems have emerged over the years having different features and functionalities. Understanding the functionalities of each OS guides users' decisions about the OS to install on their computers. In view of this the comparative analysis of different OS becomes inevitable. Thus the need arises for a comparative analysis that will give an overview of the similarities and difference in different types of OS with the view to presenting and mapping the features of the OS with various user services.

This paper presents a comparative study of six (i.e. Windows, Linux, Mac, UNIX, Android and iOS) operating systems based on the OS features and their strengths and weaknesses.

The paper is structured as follows: Section 2 presents the review of related works while Section 3 presents the comparative analysis of Windows, UNIX, Linux, Mac, Android, and iOS. Section 4 presents merits and demerits of Windows, UNIX, Linux, Mac, Android, and iOS. Deductions are presented in Section 5 and Conclusion is presented in Section 6.

2. REVIEW OF RELATED WORKS

Several research works had been carried out on operating systems used on desktop computer systems and mobile devices. Summary of the existing works is presented in this section.

Lin and Ye in [2] investigated the smartphone OSs market in a uniform ecosystem framework. They compared major companies like Nokia, RIM, Apple and Microsoft. The result showed that the companies used smartphone OS as a business unit and as opportunity for new business. Similarly in [3], the authors compared various operating systems (OSes) for developing WSN applications such as TinyOS, Contiki, and LiteOS. Several issues were considered amongst which are: memory requirement, process management and scheduling, kernel model, reliability etc. Moreover, features such as Networking Support, Real-Time Guarantee, Language Support, Multi-Threading Support, File System, Platform Support, and Simulator for comparison of these OSes were discussed. Strengths and weaknesses of the operating systems were equally identified. The significance of this work is that, the OS developers will know what had been done on existing OSes, and the OS users will know the various features of

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Learning the Unix Operating System Jerry Peek, Grace Todino, John Strang, 2001-10-22 If you are new to Unix this concise book will tell you just what you need to get started and no more Unix was one of the first operating systems written in C a high level programming language and its natural portability and low price made it a popular choice among universities Initially two main dialects of Unix existed one produced by AT T known as System V and one developed at UC Berkeley and known as BSD In recent years many other dialects have been created including the highly popular Linux operating system and the new Mac OS X a derivative of BSD *Learning the Unix Operating System* is a handy book for someone just starting with Unix or Linux and it s an ideal primer for Mac and PC users of the Internet who need to know a little about Unix on the systems they visit The fifth edition is the most effective introduction to Unix in print covering Internet usage for email file transfers web browsing and many major and minor updates to help the reader navigate the ever expanding capabilities of the operating system In response to the popularity of Linux the book now focuses on the popular bash shell preferred by most Linux users Since the release of the fourth edition the Internet and its many functions has become part of most computer user s lives A new chapter explains how to use ftp pine for mail and offers useful knowledge on how to surf the web Today everyone is concerned about security With this in mind the author has included tips throughout the text on security basics especially in the Internet and networking sections The book includes a completely updated quick reference card to make it easier for the reader to access the key functions of the command line Guide to UNIX Using Linux Michael J. Palmer, 2008 Written with a clear straightforward writing style and packed with step by step projects for direct hands on learning Guide to UNIX Using Linux International Edition is the perfect resource for learning UNIX and Linux from the ground up Through the use of practical examples end of chapter reviews and interactive exercises novice users are transformed into confident UNIX Linux users who can employ utilities master files manage and query data create scripts access a network or the Internet and navigate popular user interfaces and software The updated 4th edition incorporates coverage of the latest versions of UNIX and Linux including new versions of Red Hat Fedora SUSE and Ubuntu Linux A new chapter has also been added to cover basic networking utilities and several other chapters have been expanded to include additional information on the KDE and GNOME desktops as well as coverage of the popular OpenOffice.org office suite With a strong focus on universal UNIX and Linux commands that are transferable to all versions of Linux this book is a must have for anyone seeking to develop their knowledge of these systems **Server+ Study Guide** Brad Hryhoruk, Diana Bartley, Quentin Docter, 2006-07-14 Server is one of the newest certifications from CompTIA the sponsor of such vendor neutral IT certifications as A+ and Network Server is positioned alongside Network+ as a follow up to A+ certification The Server exam focuses on network hardware while the Network exam focuses on network software The Server exam certifies the knowledge of mid to upper level technicians with 18-24 months of strong IT experience using hardware functionality including server installation troubleshooting support and

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