

LINUX OPERATING SYSTEM

INTRODUCTION



Linux a Unix-source
open-source
operating system

HISTORICAL BACKGROUND AND PHILOSOPHY



Beginnings
Collaborative
Development

GENERAL FEATURES OF LINUX



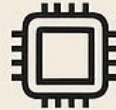
Multuser support
Multitasking
Stability and security
Flexibility and modularity
Community support

ADMINISTRATION, SECURITY, AND COMPARISON WITH OTHER OPERATING SYTE- MS



Virtualization and
containerization

ARCHITECTURE AND COMPONENTS OF LINUX



Overview of Linux
Architecture



The Linux Kernel
Process
Management in Linux



File Systems in Linux

ADVANCED TOPICS AND EMERGING TRENDS



Virtualization and
containerization



Cloud computing and
distributed systems

The role of Linux
in cybersecurity

CASE STUDIES AND REAL-WORLD IMPLEMENTATIONS

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