Mindluster Platform

About the course Operating systems types for beginners

Operating systems types course in hindi, in this course we will learn about the Operating Systems Types, delving into the various categories and their unique characteristics. Operating systems (OS) are the backbone of computer functionality, managing hardware and software resources, and providing essential services for applications. We will explore different types of operating systems, including Batch Operating Systems, which handle jobs in bulk without user interaction; Time-Sharing Operating Systems, allowing multiple users to share system resources simultaneously; and Distributed Operating Systems, which manage a group of independent computers to appear as a single coherent system. We'll also cover Network Operating Systems that provide networking capabilities, Real-Time Operating Systems used for time-critical applications, and Embedded Operating Systems designed for specific hardware. Furthermore, we'll discuss Mobile Operating Systems like Android and iOS, Desktop Operating Systems such as Windows, macOS, and Linux, and Server Operating Systems tailored for server environments. The course will provide insights into Mainframe Operating Systems, Cloud Operating Systems, and emerging trends like Hybrid and IoT Operating Systems. By the end of this course, you will have a comprehensive understanding of the different types of operating systems, their functionalities, and their applications in various fields. Join us to explore the diverse world of operating systems and enhance your knowledge in this fundamental area of computer science.

Computer Science Category's Courses

Course Lesson(126)

Lesson 1 :
Introduction to Operating Systems Operating System Definition Goals What is Operating System

Lesson 2 :
Computer System Structure 4 Components of Computer System Abstract view of Operating System

Lesson 3 : **What Operating System Do Depending on user view and System view Operating Systems**

Lesson 4 :
Computer System Operation in Operating system Computer System Organization Operating System

Lesson 5 : **I O Structure in Operating system Computer System Organization Operating System**

Lesson 6 : **Storage Structure in Operating system Computer System Organization Operating System**

Lesson 7 :
Computer System Architecture in Operating Systems Symmetric Multiprocessing Asymmetric Clustered

Lesson 8 : **Operating System Structure Multiprogramming Time Sharing**

Lesson 9 : **Types of Operating Systems**

Lesson 10 : **Operating System Operations Dual Mode Kernel Mode User Mode**

Lesson 11 :
Functions of Operating Systems Operating system Components Concepts Functionalities OS

Lesson 12 :
Computing Environments in Operating Systems Distributed Systems Traditional peer to peer

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User Operating System Interface CLI Command Line Interface Command Interpreter GUI

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Lesson 16 : **System Calls in Operating System Types of system Calls Operating System**

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Lesson 20 :
Virtual Machines in OS Virtualization System Model Implementation Benefits VMware JVM

Lesson 21 : **Operating System Generation System Boot**

Lesson 22 : **What is a Process Process In Memory Process Management In Operating System**

Lesson 23 :
Process States Diagram of Process States Process State Transition Diagram Operating System

Lesson 24 : **Process Control Block In Operating Systems PCB In OS Process In operating systems**

Lesson 25 : **Context Switching In Operating System Process Management In Operating Systems**

Lesson 26 :
Scheduling Queues In Process Management Queue Diagram Representation of process scheduling

Lesson 27 :
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Lesson 28 : **Operations on processes Process Operations Process Creation Process Termination OS**

Lesson 29 : **Fork System Call Wait System call Operating System lab OS lab Process Management**

Lesson 30 : **exec System Call execv execlp System Calls OS lab Process Management**

Lesson 31 : **Sleep System Call Exit System call Operating System lab OS lab Process Management**

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Lesson 33 : **Communication In Client Server Systems Sockets Remote Procedure Calls RPC Pipes OS**

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Lesson 37 : **Threading Issues In Operating Systems**

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Lesson 43 :
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Lesson 44 : **SRTF Shortest Remaining Time First Scheduling Algorithm 2 Examples Preemptive OS**

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Lesson 49 :
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Lesson 52 : **Peterson s Solution for critical section problem**

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Lesson 61 : **Dining Philosophers Solution using Monitors in Operating System**

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Lesson 63 : **deadlock characterization part 1 necessary conditions for deadlock**

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Lesson 65 : **deadlock prevention in os deadlock prevention in operating system**

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Lesson 68 :
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Lesson 72 : **Methods For Handling Deadlocks**

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Lesson 75 :
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Lesson 79 : **Memory Allocation Methods First Fit Best Fit Worst Fit Contiguous Operating Systems**

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Lesson 81 :
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Lesson 91 : **Belady s Anomaly in first in first out page replacement algorithm**

Lesson 92 : **OPT page replacement algorithm or Optimal Page Replacement algorithm**

Lesson 93 : **LRU page replacement algorithm or Least Recently Used page replacement algorithm**

Lesson 94 : **FIFO vs OPT vs LRU comparison of page replacement algorithms**

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Lesson 96 :
global vs local allocation in operating system global replacement allocation local replacement

Lesson 97 : **thrashing in operating system Techniques to handle Thrashing working set model**

Lesson 98 : **what is thrashing in os thrashing in operating system**

Lesson 99 : **working set model in os working set model in operating system**

Lesson 100 :
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Lesson 101 : **Buddy System in Operating System**

Lesson 102 : **Slab Allocation in Operating System**

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Lesson 104 :
File Concept Part 2 File Operations File Types File System Operating System File Managemen

Lesson 105 :
Access Methods File Access Methods operating systems Sequential Direct Indexed File Syst

Lesson 106 :
Directory Structure tree structured directory acyclic graph directory operating system files

Lesson 107 : **File System Mounting operating systems file system file management mount point**

Lesson 108 :
File Sharing operating system file system file management file system Remote file systems

Lesson 109 : **Protection Protection in file system operating system file system file management**

Lesson 110 :
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Lesson 111 :
File System Implementation operating systems file system file management file control block

Lesson 112 :
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Lesson 114 : **Free Space Management Free Disk Space Management operating systems file system**

Lesson 115 :
Efficiency and Performance of File System Unified Buffer Cache operating systems file system

Lesson 116 :
Storage Structures in Operating System Storage Device Hierarchy on Operating System

Lesson 117 : **FCFS Disk Scheduling Algorithm Operating System OS**

Lesson 118 : **SSTF Disk Scheduling Algorithm Operating System OS**

Lesson 119 : **SCAN Disk Scheduling Algorithm Operating System OS**

Lesson 120 : **CSCAN Disk Scheduling Algorithm Operating System OS**

Lesson 121 : **LOOK Disk Scheduling Algorithm Operating System OS**

Lesson 122 : **CLOOK Disk Scheduling Algorithm Operating System OS**

Lesson 123 :
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Lesson 124 :
Multiprogramming with Fixed Size Partitioning Versus Variable Size Partitioning in OS Contiguous

Lesson 125 :
Overview of Mass Storage Structures in Operating Systems Magnetic Disk Magnetic Tape

Lesson 126 :
Disk Management in Operating Systems Disk Formatting Partitioning Boot Block Bad Block

Related courses

Linear Algebra for Computer Scientists

Insertion Sort

Bubble Sort

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Random Access Memory

Binary Trees

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