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Question: Compare and contrast the two varieties of distributed operating systems...

Compare and contrast the two varieties of distributed operating systems discussed in this chapter: a process-based DO/S and an object-based DO/S. If you were the system administrator, which would you prefer? Explain your reasoning.

Expert Answer 1



kethanji answered this
269 answers

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Answer:-

Process based DO/S

- Network resources are managed as a large heterogeneous collection

Object-based DO/S

- Clumps each type of hardware with its necessary operational software into discrete objects that are manipulated as a unit

Process based DO/S:-

- Provides for process management via client/server processes synchronized and linked together through messages & ports (channels or pipes)
- Emphasizes processes and messages and how they provide basic features essential to process management
- Processes can be managed from single OS copy, from multiple cooperating peers, or some combination of two
- High level of cooperation and sharing of actions & data
- Synchronization is a key issue in network process management
- Interrupts represented as messages sent to proper process for service

Object-based DO/S:-

- System is viewed as a collection of objects
 - Example: Hardware (CPUs, memory), software (files, programs), or a combination of the two
- Objects are viewed as abstract entities
 - Objects have a set of unchanging properties
- Process management becomes object management, with processes acting as discrete objects
- Two components of process management:
 - Kernel level and process manager

So I finally say *object based DO/S* is the *best* reasoning:-

1. System is viewed as a collection of objects
2. These objects are used as abstract entries.
3. Objects have unchanging properties.
4. Every system is managed in a same way.

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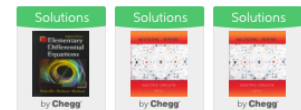
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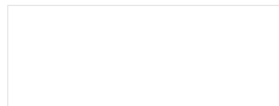
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A: [See answer](#)

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