Institute of Engineering
Jiwaji University

Distributed System

Submitted by Nayna Sharma

INDEX

Defination

- A distributed system is defined as a group of independent computers which looks to its users as a single system which I

Distributed system are as follows:

- Making Resources Accessible
- Distribution transparency
- Openness
- Scalability
- Pitfall

Types of distributed system

1. **Distributed computing systems:** The distributed computing systems include the following:
- Cluster computing systems
- Grid computing systems

2. **Distributed informative systems:** In the distributed systems, the following forms are concentrated:
- Transaction processing systems
- Enterprise application integration

3. **Distributed pervasive systems:** Few examples of distributed pervasive systems are as below:
- Home systems
- Electronic health care systems
- Sensor networks

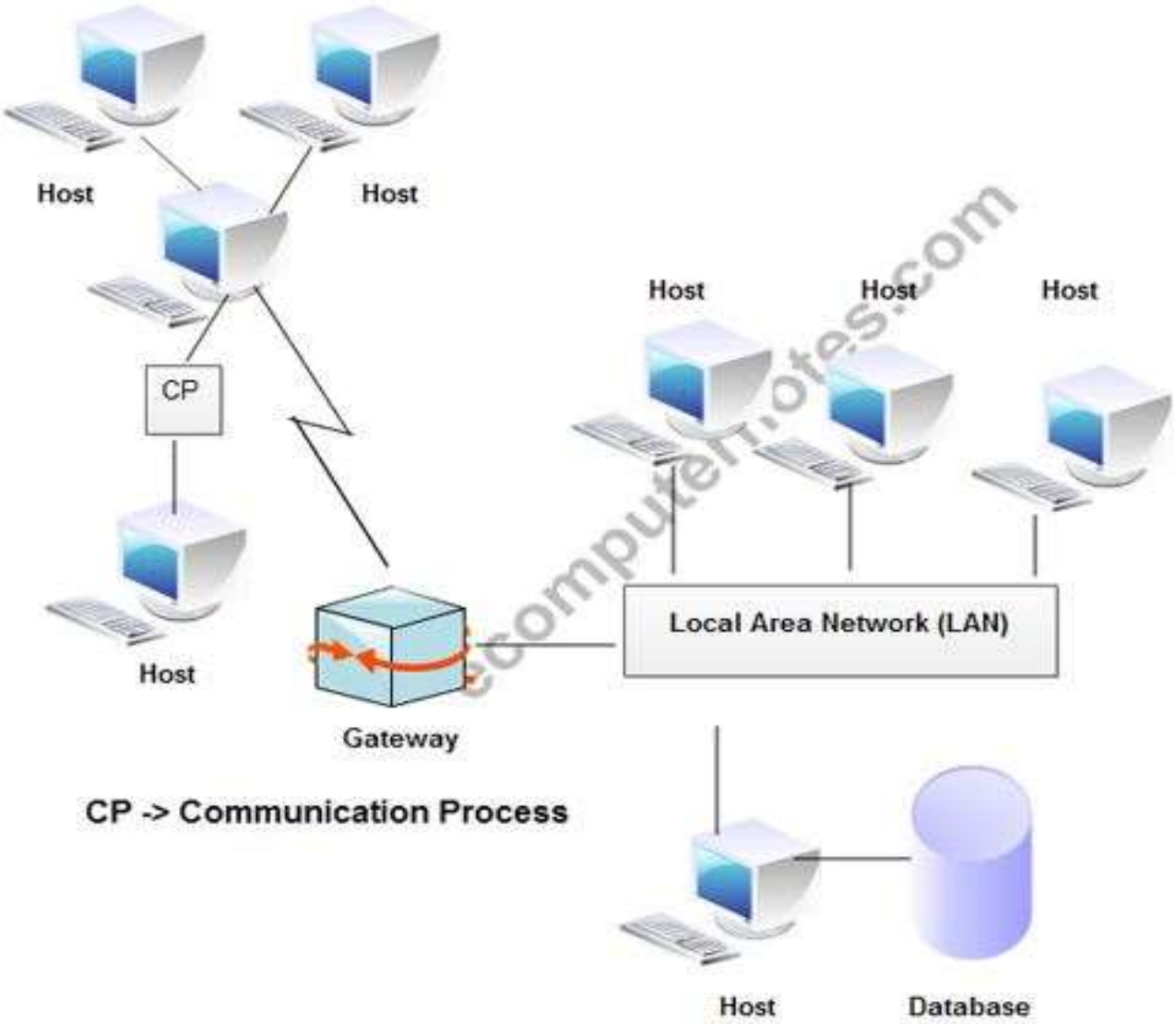
Advanteges & disadvanteges

Advantages

- Economics
- Speed
- Inherent distributiono
- Reliability
- Incremental growth

Disadvantages

- Software
- Network
- More components to fail
- Security

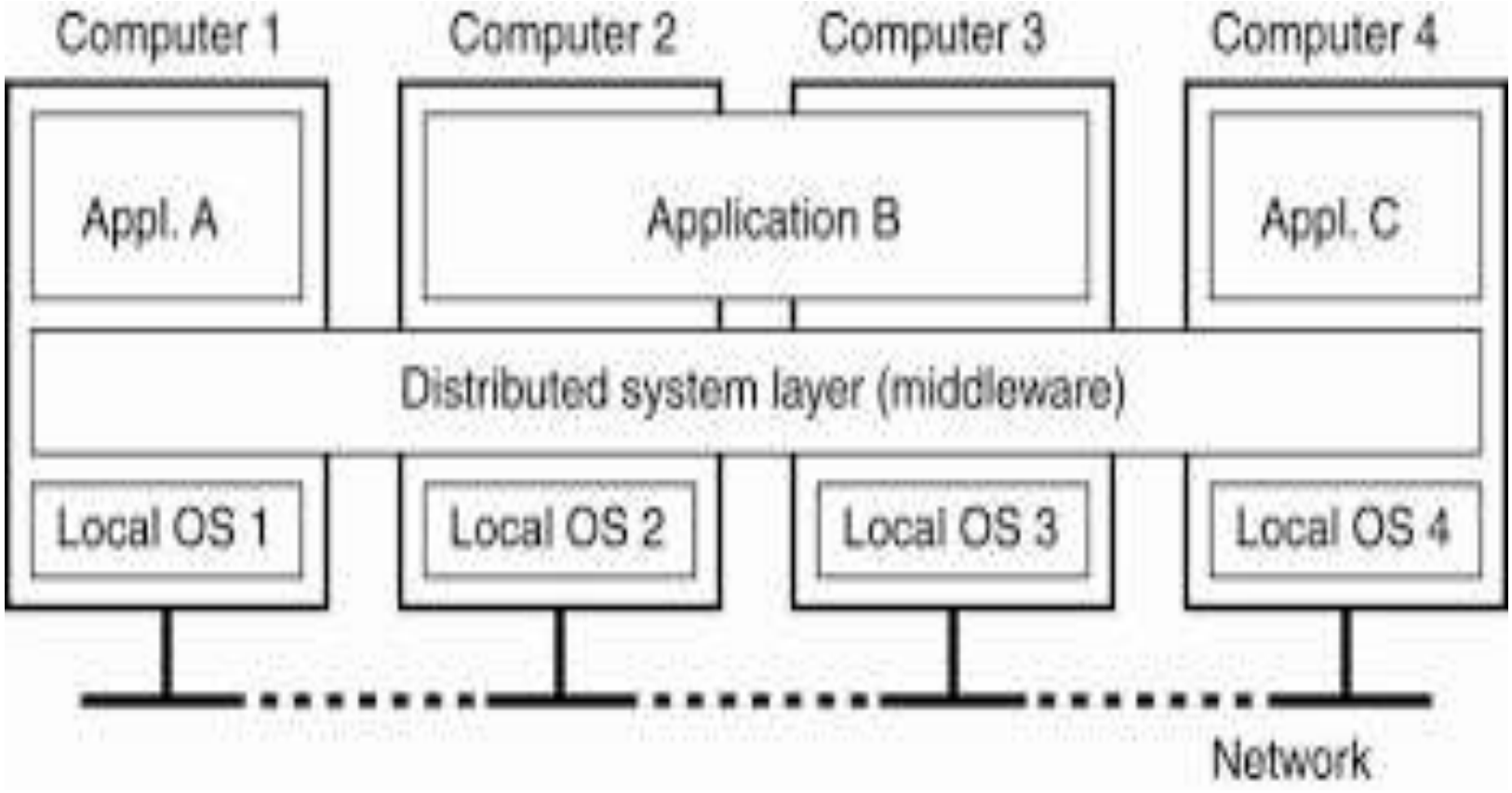


A Typical View of Distributed System

Basic Design Issues

- Basic design issues of distributed systems are:-
- **Naming** :Name services includes naming context resolution, hierarchical structure, resource protection.
- **Communication** :Separated components communicate with sending processes and receiving processes for data transfer and synchronization,

Software structure



System architecture

- Client-server
- Peer-to-peer
- Services provided by multiple servers
- Proxy server and caches
- Mobile code and mobile agent
- Network computers
- Thin clents and mobile devices

Conclusion

- The concept of distributed system is the most efficient way to get optimization. It is not get the efficiency of task but also reduce the total time to complete the task.