

FACULTY OF ENGINEERING & TECHNOLOGY

BCA-302Computer Networks

Lecture-33

Mr. Dilip Kumar J Saini

Assistant Professor Computer Science & Engineering



>OVERVIEW OF NOS CHARACTERISTICS

>DIFFERENCES BETWEEN PC AND A NOS

>MULTIUSER, MULTITASKING, AND MULTIPROCESSOR SYSTEMS

>CHOOSING A NOS

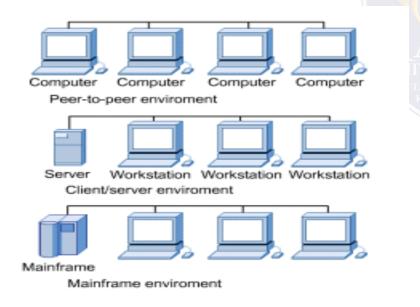
>TYPES OF NOS

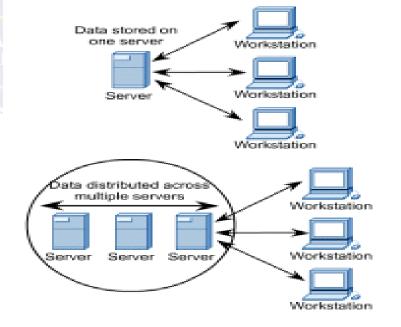


OVERVIEW OF NOS CHARACTERISTICS

- Network operating systems (NOSs) distribute their functions over a number of networked computers.
- It then adds functions that allow access to shared resources by a number of users concurrently.
- NOS computers take on specialized roles to accomplish concurrent access to shared resources.
- Client systems contain specialized software that allows them to request shared resources that are controlled by

server systems responding to a client request



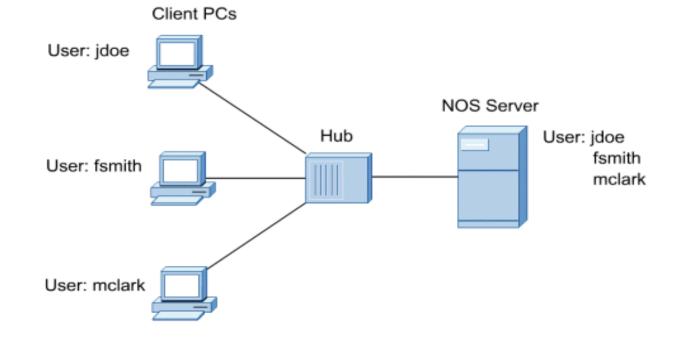


DIFFERENCES BETWEEN PC AND A NOS

•The NOS enhances the reach of the client PC by making remote services available as extensions of the local native operating system.

Although a number of users may have accounts on a PC, only a single account is active on the system at any given time.

 NOS supports multiple user accounts at the same time and enables concurrent access to shared resources by multiple clients (multitasking and multiuser environment).



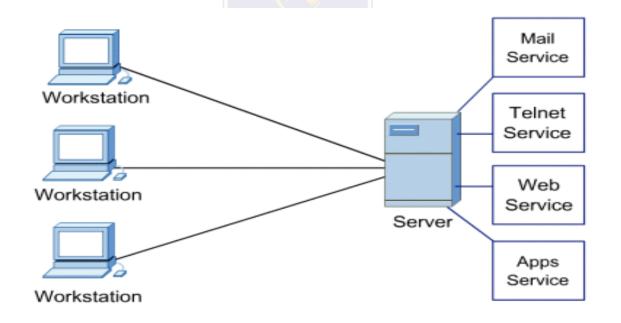
MULTIUSER, MULTITASKING, AND MULTIPROCESSOR SYSTEMS

•A NOS server is a multitasking system. Internally, the OS must be capable of executing multiple tasks or processes at the same time.

Some systems are equipped with more than one processor, called multiprocessing systems.

They are capable of executing multiple tasks in parallel by assigning each task to a different processor.

The aggregate amount of work that the server can perform in a given time is greatly enhanced in multiprocessor systems



CHOOSING A NOS

The main features to consider when selecting a NOS include:

Performance

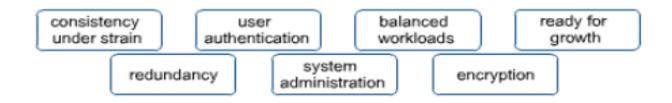
Management and monitoring tools

Security

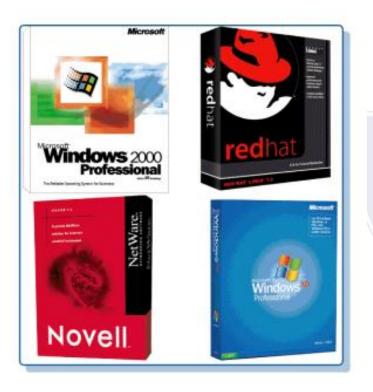
Scalability

Robustness/fault tolerance

Security	
Robustness	
Performance	
Scalability	
Management	



TYPES OF NOS



It is important to know the basics about popular NOS families.
Many networks now include more than one server type, and knowing how to get these diverse systems to interoperate is an important skill for a network administrator.

•Operating systems on the network have their own language.

Different NOS vendors use the same terms in different ways.

MUTIPLE CHOICE QUESTIONS:

Sr no	Question	Option A	Option B	OptionC	OptionD
1	When were VPNs introduced into the commercial world?	Early 80's	Late 80's	Early 90's	Late 90's
2	Which of the following statements is NOT true concerning VPNs?	Financially rewarding compared to leased lines	workers to access	Allows LAN-to- LAN connectivity over public networks	Is the backbone of the Internet
3	When the mail server sends mail to other mail servers it man becomes	SMTP server	SMTP client	Peer	Master
4	If you have to send multimedia data over SMTP it has to be encoded into	Binary	Signal	ASCII	Hash
5	Expansion of SMTP is	Simple mail transfer	Simple Message Transfer Protocol	Protocol	Simple Message Transmission Protocol

http://www.engppt.com/2009/12/networking-fourozan-ppt-slides.html

