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Applied Computing
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Network Operating Systems and Services (NOSS)

(ACCA5023)

Key Points from Lecture 1:

Topic: Introduction to Windows Server

(Understanding Networks, Components, Architectures, IP Addressing, Infrastructure, Servers, Network Operating Systems)

Reference from Essential Reading:

Dauti, Bekim. Windows Server 2019 Administration Fundamentals: A beginner's guide to managing and administering Windows Server environments, 2nd Edition.

1. A computer network architecture represents the computer network design that enables the network components to communicate with one another.
2. Clients usually request access to resources, Servers are responsible for providing resources and managing access to the resources.
3. PAN HAN LAN MAN SAN WAN are considered to be computer networks
4. Windows Server is the server's operating system developed by Microsoft as part of the Windows NT family of operating systems.
5. Windows Server is able to provide network services such as domain controllers, web servers, print servers, and file servers.
6. The subnet helps to identify a specific network within the overall network.
7. Peer-to-Peer (P2P) and Client/server are considered to be network architectures?
8. The CPU, memory, disk, and network are known to be the key system components that affect the overall performance of your servers.
9. The Hardware represents its physical component while the Software represents its logical component of a server.
10. IPv4 and IPv6 are considered to be IP addressing technologies
11. Windows Admin Center is a new server management app introduced with Windows Server 2019.
12. Docker technology has enabled easy-to-build, deploy, and run application images.
13. Windows Server 2019 Datacenter and Windows Server 2019 Standard editions are available in Windows Server 2019?
14. Microsoft Defender ATP is a unified platform that enables preventative protection, post-breach detection, automated investigation, and response.
15. System Insights is a new feature available in Windows Server 2019, which locally analyzes Windows Server system data by providing an insight into the functionality of servers and help system administrators to run the operations smoothly.
16. Windows Server 2019 is the penultimate version of the Server operating system by Microsoft, as part of the Windows NT family of OSes.

Further reading

An Overview of Networks

<https://intronetworks.cs.luc.edu/current/html/intro.html>

Get Started with Windows Server 2019

<https://docs.microsoft.com/en-us/windows-server/get-started-19/get-started-19>

Windows Server vs Linux: The Ultimate Comparison:

<https://phoenixnap.com/blog/linux-vs-microsoft-windows-servers>