ITNT-2320: NETWORK ADMINISTRATION I

Cuyahoga Community College

Viewing: ITNT-2320 : Network Administration I

Board of Trustees:
MARCH 2024

Academic Term:
Fall 2024

Subject Code
ITNT - Info Tech-Networking Software

Course Number:
2320

Title:
Network Administration I

Catalog Description:
Introduction to knowledge and skills necessary to perform installation, configuration, and day-to-day administration tasks in a Microsoft Windows-based network. Includes how to install the server operating system, manage local and remote access, manage file and printer services, implement group policies, and manage server storage.

Credit Hour(s):
3

Lecture Hour(s):
2
Lab Hour(s):
2

Requisites

Prerequisite and Corequisite
ITNT-2300 Network Fundamentals or concurrent enrollment, or departmental approval: equivalent knowledge or skills.

Outcomes

Course Outcome(s):

Plan for Windows Server installation and install the following: server operating system, Active Directory, core networking services, and Hyper-V. Configure and manage local and remote server services, file and storage services, group policies, and TCP/IP components.

Objective(s):

1. Plan for server installation given parameters.
2. Install and configure recent version of Microsoft server operating system.
3. Configure local storage within server product
4. Configure and manage file and share access
5. Configure print and document services
6. Configure remote management
7. Describe Microsoft's virtualization product, Hyper-V
8. Plan, configure, and deploy core networking services of the network operating system.
9. Install and administer Active Directory Services.
10. Create and manage Group Policy for users of the network.

Methods of Evaluation:
1. Exams
2. Quizzes
3. Lab assignments

Course Content Outline:
1. Install and configure recent version of Microsoft Server
   a. Plan for server installation
   b. Plan server roles
   c. Server installation
2. Configure Server roles and features
   a. File and share access
   b. Print services
   c. Remote management
3. Configure and deploy network services
   a. IPv4 and IPv6
   b. DHCP
   c. DNS
4. Install and administer Active Directory
   a. Domain controllers
   b. Users and computers
   c. Groups and Organizational Units (OUs)
5. Create and manage Group Policy
   a. Group Policy Objects
   b. Security policies
   c. Firewall
.

Resources

Tomsho, G. *MCSA guide to installing and configuring Microsoft Windows.* 1st. Boston:Cengage, 2015.

TestOut Staff. *Hybrid Server Pro: Core*. Moab: TestOut Corporation, 2023.

William Panek. *Mastering Windows Server 2022 with Azure Cloud Services: IaaS, PaaS, and SaaS*. 1st Edition. Sybex, 2022.

Orin Thomas. *Windows Server 2019 Inside Out*. 1st Edition. Microsoft Press, 2020.

Resources Other
1. http://www.microsoft.com.

Instructional Services

OAN Number:
Transfer Assurance Guide OIT004

CTAN Number:
Career Technical Assurance Guide CTIT013

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