

ITNT-2420: NETWORK ADMINISTRATION II

Cuyahoga Community College

Viewing: ITNT-2420 : Network Administration II

Board of Trustees:

2016-05-26

Academic Term:

Fall 2018

Subject Code

ITNT - Info Tech-Networking Software

Course Number:

2420

Title:

Network Administration II

Catalog Description:

Focus on designing, implementing, and supporting Windows Server network operating system in multiple-domain enterprise environment. Implementing directory services, analysis and optimization, and troubleshooting discussed.

Credit Hour(s):

3

Lecture Hour(s):

2

Lab Hour(s):

2

Requisites

Prerequisite and Corequisite

ITNT-2320 Network Administration I, or departmental approval:
equivalent knowledge or skills.

Outcomes

Course Outcome(s):

Manage and maintain users and groups, network access, and data security within a domain-based server environment.

Objective(s):

1. Configure and troubleshoot Domain Name System
2. Perform server monitoring.
3. Maintain Active Directory Domain Services
4. Manage user and service accounts
5. Manage user desktops using group policy
6. Implement remote access.
7. Configure encryption.
8. Deploy and maintain server images.
9. Implement update management.

Methods of Evaluation:

1. Exams
2. Quizzes
3. Hands-on Lab assignments
4. Other means deemed appropriate by the faculty

Course Content Outline:

- 1. Configure and troubleshoot Domain Name System (DNS)
 - 1. Configure the DNS server role
 - 2. Configure DNS zones
 - 3. Manage and troubleshoot DNS
- 2. Maintain Active Directory domain services
 - 1. Overview of Active Directory Domain Services (ADDS)
 - 2. Implement virtualized domain controllers
 - 3. Administer ADDS
- 3. Manage user and service accounts
 - 1. Configure password policy and user account settings
 - 2. Configure managed service accounts
- 4. Manage user desktops with group policy
 - 1. Implement administrative templates
 - 2. Configure group policy preferences
 - 3. Manage software with group policy
- E. Implement remote access
 - 1. Overview of remote access
 - 2. Implement Virtual Private Network
- F. Configure encryption
 - 1. Encrypt drives
 - 2. Encrypt files
 - 3. Configure advanced auditing
- G. Deploy and maintain server images
 - 1. Overview of Windows Deployment Services
 - 2. Manage images
 - 3. Implement deployment with Windows Deployment Services
 - 4. Administer Windows Deployment Services
- H. Implement update management
 - 1. Overview of Windows Server Update Services (WSUS)
 - 2. Deploy updates with WSUS
- I. Monitor server
 - 1. Introduction to monitoring tools
 - 2. Use Performance Monitor
 - 3. Monitor event logs

Resources

Minasi, M., Greene, K., Booth, C. et al. *Mastering Windows Server 2012 R2*. 1st. Indianapolis: Wiley, 2014.

Panek, W. *MCSA Windows Server 2012 complete study guide*. 1st. Hoboken: Sybex, 2013.

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

Tulloch, G. *Introducing Windows Server 2012 R2*. 1st. Redmond: Microsoft, 2013.

Zacker, C. *70-410 Installing and configuring Windows Server 2012*. 1st. Indianapolis: Wiley, 2014.

Tomsho, G. *MCSA guide to administering Microsoft Windows Server 2012/R2*. 1st. Boston: Cengage, 2015.

Resources Other

1. <http://www.microsoft.com>.

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