

LESSON 2.1

98-365 Windows Server Administration Fundamentals

Identify Application Servers

Lesson Overview

In this lesson, you will review:

- The definition of an application server
- The different types of application servers
- Communication protocols used by some application servers

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Anticipatory Set

- On a sheet of paper, list 4 examples of application servers

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Microsoft® Application Servers

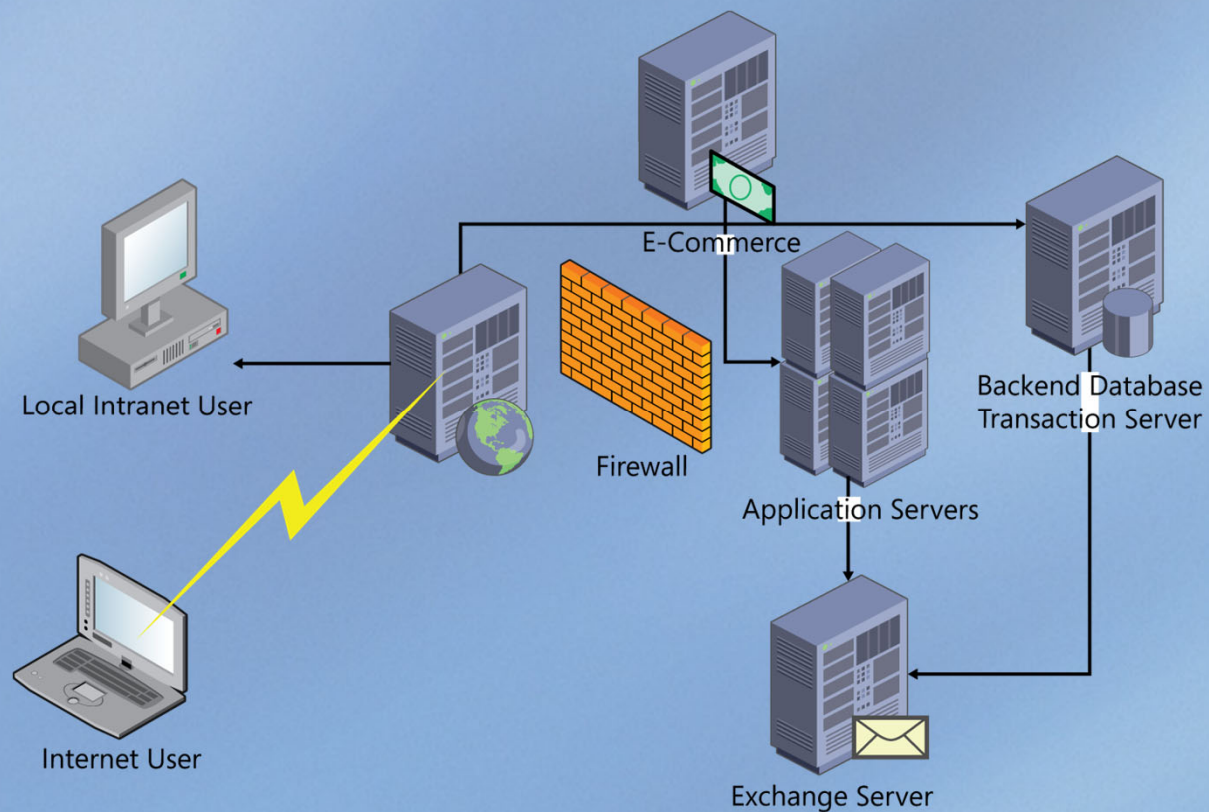
- What is an application server?

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Microsoft Application Servers

- What is an application server?



Examples of application servers

- E-mail/Collaboration server

- Microsoft Exchange Server 2010

- Provides electronic mail (e-mail) capabilities to an organization

- Provides multiple collaboration options:

- Sharing calendars

- Sharing contacts

- Sending e-mail on behalf of others

- Public folder and document sharing

- Provides Internet e-mail options

Microsoft Exchange Server Requirements

Components	Specifications
PC	X64 architecture-based computer with Intel processor that supports Intel EM64T or AMD64 platform
Operating System	Windows® Server® 2008 x64 Standard/Enterprise SP2 or Windows Server 2008® R2 Standard/Enterprise
Operating System for management tools	64-bit Windows Vista® or 7®
Memory	4GB per server plus 5MB of RAM for each mailbox
Disk space	1.2GB for installation, 500MB for Unified Messaging, 200MB system drive
File format	NTFS
Monitor	Screen resolution of 800x600

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Microsoft Exchange Server Communication Ports

Protocol/Service	Port
POP3	110
IMAP	143
SMTP	25
HTTP	80
Secure SMTP	465
Secure IMAP	585
IMAP4 over SSL	993
Secure POP3	995

Communication Ports

Why is it important to understand?

- Identified traffic while monitoring
- Be able to secure traffic
- Permit related traffic in and out of your perimeter security or firewalls.

Microsoft SQL server®

- Database server
- Editions:
 - Enterprise—higher workloads, redundancy and built-in business intelligence
 - Standard—shared data scenarios, small to large business
 - Workgroup—remote offices that need local instances of data
 - Web—for Web application hosting
 - Developer—development and testing
 - Express—(free) entry level database, ideal for learning
 - Compact 3.5—(free) embedded database for developing mobile apps
- Communicates on port 1433

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- **Microsoft SharePoint®**
 - Business collaboration platform
 - Ideal as an intranet solution
 - Provides a single point for sharing of ideas and resources
- **Microsoft Forefront® Threat Management Gateway**
 - Allows employees to safely and productively use the Internet
 - Provides URL filtering, intrusion detection, application and network level firewall, and http/https inspection

Lesson Review

- What application could be used if a business needs to collaborate using not only e-mail, but sharing of calendars and public folders and contacts?
- Why is it important to understand the ports that applications use for communications?