



IT Fundamentals

Unit - Hardware

Lesson 3.4.2 - Application Architecture Models

IT Fundamentals Objectives (FC0-U61)

Objective 3.4 – Explain methods of application architecture and delivery models

- Application architecture models
 - One tier
 - Two tier
 - Thre tier
 - n-tier

Grade Level(s)

8, 9

Cyber Connections

- Hardware & Software

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Application Architecture Models

Software Architecture

In order to use an application, it has to be installed. There are a couple ways that software can be installed. At the lowest level, the number of systems that the application is installed on, is the number of tiers architecture. **One tier** application architecture means that the entire application is installed on one single machine. **Two tier** means that the application runs on two systems. This is a very common method and is sometimes referred to as the client-server architecture. Here, a server hosts the database and users connect to the database using their local machines. **Three tier** means that three machines are required. An example of this is a user is using their system to access a server, two machines, and the third machine is the database that the server is accessing. Thus, three machines, the user's machine, the server, and the database. **N-tier** is referring to an "n" number of machine, if you have 5 machines, then it would be a 5-tiered architecture.