Internet and Web Application Security 3rd edition Harwood Test Bank

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Chapter: Chapter 01 - Quiz

Multiple Choice

1. In the Transmission Control Protocol/Internet Protocol (TCP/IP) model, Ethernet operates at what layer?
A) Application
B) Internet
C) Link
D) Transport
Ans: C
Complexity: Medium
Ahead: Before There Was an Internet
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback:
Taxonomy: Remember

2. What is another name for the Semantic Web?
A) Social networking
B) Social media
C) Web 2.0
D) Web 3.0
Ans: D
Complexity: Easy
Ahead: World Wide Web Phases
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback: Web 3.0 is also known as the Semantic Web. You can think of the Semantic Web as the transformation of the web into one giant, online database.
Taxonomy: Remember

3. What is *not* true of data, information, and data processing?

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A) Data are the fuel and the reason for computing, networking, automation, and all other digital processing.
B) The IPO (Input, Process, and Output) model represents the evolution of computing.
C) Datum is collected into data, which can be processed into information.
D) A datum is a single value, attribute, characteristic, or identity of something. The amount of storage space the datum requires has no effect on what it represents.
Ans: B
Complexity: Medium
Ahead: Data and Information
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback: The IPO model represents data processing and computing.
Taxonomy: Analyze

4. Which web phase has characteristics such as (1) symbiotic interactions between computers and humans that obscure their separation, (2) the web becomes a large integrated operating system with its resources appearing to be "local," and (3) the web communicates with users conversationally.
A) Web 1.0
B) Web 2.0
C) Web 3.0
D) Web 4.0
Ans: D
Complexity: Medium
Ahead: World Wide Web Phases
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback:
Taxonomy: Remember

5. Which of the following is *not* true of the World Wide Web (WWW)?
A) Tim Berners-Lee developed the idea for a system he called "Mesh," which eventually became the World Wide Web.
B) Netscape was the first generally available browser with the capability of displaying graphics.
C) The original web design proposal by Tim Berners-Lee and Robert Cailliau introduced or expanded on the Hypertext Markup Language (HTML), Hypertext Transfer Protocol (HTTP), and Universal Document Identifier (UDI).
D) Prior to the web emerging onto the internet world, developments in connectivity, servers, clients, content, and everything else on a network were proprietary. If a user wanted to use it, the user needed to pay for that use, commonly all to a single vendor.
Ans: B
Complexity: Hard
Ahead: The World Wide Web (WWW)
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback: Mosaic was the first generally available browser with the capability of displaying graphics.
Taxonomy: Understand

6. Which of the following is true of servers?
A) A server can be a physical computer or virtual.
B) A server must be a physical computer.

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C) A server cannot be virtual.
D) A server cannot be a physical computer.
Ans: A
Complexity: Easy
Ahead: Client/Server Computing
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback:
Taxonomy: Analyze

7. Which of the following is associated most closely with Web 1.0?
A) Online wiki
B) Static website
C) Social networking
D) Blockchain
Ans: B
Complexity: Easy
Ahead: World Wide Web Phases
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback: Web 1.0 is sometimes referred to as Static Web or Read-Only Web because of the lack of user participation. A user would visit a website, read or capture its information, and then close the site.
Taxonomy: Understand

8. In virtualization, if you install the hypervisor on top of the native operating system, it is:
A) called a Type 1 installation.
B) called a Type 2 installation.
C) installed on bare metal.
D) taking the place of the operating system.
Ans: B
Complexity: Medium
Ahead: Virtualization and Cloud Computing
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback:
Taxonomy: Analyze

9. Which of the following is the standard set of protocols for connecting and interconnecting computers and networks into the internet?
A) Transmission Control Protocol/Internet Protocol (TCP/IP)
B) User Datagram Protocol
C) File Transfer Protocol (FTP)
D) Hypertext Transfer Protocol (HTTP)
Ans: A
Complexity: Medium
Ahead: World Wide Web Phases
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback:
Taxonomy: Understand

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10. The main purpose of a hypervisor is to support the virtual machines created on the host. This includes acting as a _____ for all of the virtual resources allocated to each of the virtual machines.
A) device driver
B) network interface
C) parallel bus
D) video driver
Ans: A
Complexity: Medium
Ahead: Virtualization and Cloud Computing
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback:
Taxonomy: Understand

11. Unlike Transmission Control Protocol (TCP), _____ does not guarantee the delivery of transmitted messages and is used primarily for message streams that are loss-tolerant.
A) Hypertext Transfer Protocol (HTTP)
B) Voice over Internet Protocol (VoIP)
C) Internet Protocol (IP)
D) User Datagram Protocol (UDP)
Ans: D
Complexity: Medium
Ahead: Before There Was an Internet
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback:
Taxonomy: Understand

12. What is *not* an example of cloud computing?
A) Google Docs
B) Online email services
C) Online data storage services
D) A webpage
Ans: D
Complexity: Medium
Ahead: Virtualization and Cloud Computing
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback: Cloud computing is the distribution of specific applications and services from dedicated internet-based virtual servers. Google Docs, online email services, and online data storage services are examples of cloud computing.
Taxonomy: Understand

13. Which of the following is commonly used to build specific programming, testing, or modeling environments?
A) Software as a Service (SaaS)
B) Platform as a Service (PaaS)

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C) Infrastructure as a Service (IaaS)
D) Network as a Service (NaaS)
Ans: B
Complexity: Medium
Ahead: Virtualization and Cloud Computing
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback:
Taxonomy: Understand

14. Which of the following is designed to provide a specific application or service to the subscriber, typically through the subscriber's web browser?
A) Software as a Service (SaaS)
B) Platform as a Service (PaaS)
C) Infrastructure as a Service (IaaS)
D) Network as a Service (NaaS)
Ans: A
Complexity: Medium
Ahead: Virtualization and Cloud Computing
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback:
Taxonomy: Remember

15. Which of the following is true of virtualization?
A) You can build physical software versions of systems that behave like their virtual equivalents.
B) A virtual machine is a physical implementation.
C) A virtual machine can simulate a complete system or just one particular process.
D) A host can run only a single virtual machine at one time.
Ans: C
Complexity: Hard
Ahead: Virtualization and Cloud Computing
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback: With virtualization, you can build virtual software versions of systems—virtual machines (VMs)—that behave like their physical equivalents. VMs can simulate a complete system or just one particular process. The VM is a guest on the host computer, which can run multiple VMs at the same time.
Taxonomy: Analyze

16. A decentralized peer-to-peer network that is highly available best describes which of the following?
A) Blockchain
B) ARPANET
C) Infrastructure as a Service (IaaS)
D) Cloud computing
Ans: A
Complexity: Medium
Ahead: World Wide Web Phases
Subject: Chapter 1
Title: The Internet and the World Wide Web

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Feedback: Because it is decentralized and peer-to-peer (P2P), a blockchain network remains highly available. Should one of the nodes connected to the network go down, all of the other nodes are still able to access the network.
Taxonomy: Understand

17. An application running on a virtual machine (VM) experiences its environment as it would on a nonvirtualized machine. What is the only difference?
A) The application interacts with an operating system.
B) The application is blind to the interactions of the guest VM operating system with the hypervisor.
C) The application requests hardware services from the operating system.
D) The application sees the VM environment as it would any computer's virtual machine manager.
Ans: B
Complexity: Hard
Ahead: Virtualization and Cloud Computing
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback: An application running on a VM "sees" its environment the same as it would on a nonvirtualized computer. It interacts with an operating system inside the VM, it requests hardware services from the operating system, and it operates in its allocation of RAM. The only difference in this environment is that the application is blind to the interactions of the guest (VM) operating system with the hypervisor.
Taxonomy: Analyze

18. Keisha is a virtualization expert in her company's IT department. She is using three physical servers to create a single virtual server computer environment. Of the three physical servers, Server 1 is running at 30% capacity, Server 2 is running at 40% capacity, and Server 3 is running at 20% capacity. At what capacity is the single virtual server running?
A) 20%
B) 30%
C) 40%
D) 90%
Ans: D
Complexity: Medium
Ahead: Virtualization and Cloud Computing
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback: The capacities of all three physical computers are combined into the single virtual computer, so 20% + 30% + 40% = 90%.
Taxonomy: Apply

19. Many cloud service provider systems front the applications with a(n) _____ to forward the request to the server that will provide the best response time.
A) application
B) database
C) load balancer
D) storage system
Ans: C
Complexity: Medium
Ahead: Virtualization and Cloud Computing
Subject: Chapter 1

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Title: The Internet and the World Wide Web
Feedback: Many cloud service provider systems, especially those with a high number of users, front the applications with a load balancer, which could be a router, switch, or dedicated appliance. The purpose of the load balancer is to forward the incoming service request to the server that will provide the best response time.
Taxonomy: Understand

True/False

1. True or False? Information is the result or product of data being processed.
Ans: True
Complexity: Easy
Ahead: Data and Information
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback:
Taxonomy:

2. True or False? The TCP/IP Reference Model has four layers: Application, Transport, Internet, and Link.
Ans: True
Complexity: Medium
Ahead: Before There Was an Internet
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback:
Taxonomy:

3. True or False? Universal Document Identifier (UDI) provides internet users with the ability to move from one document to another on a network by clicking a link.
Ans: False
Complexity: Easy
Ahead: Before There Was an Internet
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback: Hypertext provides internet users with the ability to move from one document to another on a network by clicking a link.
Taxonomy:

4. True or False? In the client/server model, the client (a network host) requests a resource from a server, which is specialized software running on a centralized system.
Ans: True
Complexity: Medium
Ahead: Client/Server Computing
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Taxonomy:

5. True or False? Microsoft Edge was an early internet system that provided a simple-to-use method to search for content on a remote server.
Ans: False
Complexity: Medium
Ahead: The Early Internet
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback: On the early internet, the Gopher system provided a simple-to-use method to search for content on a remote server.
Taxonomy:

6. True or False? An extension is an add-in feature package that attaches to a web browser and performs a particular function or set of functions.
Ans: True
Complexity: Medium
Ahead: The Early Internet
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback:
Taxonomy:

7. True or False? The general design of a search engine revolves around indexed catalogs or categories that are constantly updated through the use of web crawlers or spiders.
Ans: True
Complexity: Medium
Ahead: World Wide Web Phases
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback:
Taxonomy:

8. True or False? Search engine optimization is a process used to increase the chances of a website being picked up by web crawlers.
Ans: False
Complexity: Medium
Ahead: World Wide Web Phases
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback: Search engine optimization is a process used to increase the chances of a website being included in the first page of search engine results.
Taxonomy:

9. True or False? One purpose of content optimization is to make the content of a webpage more understandable for search engine crawlers.

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Ans: True
Complexity: Medium
Ahead: World Wide Web Phases
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Feedback:
Taxonomy:

10. True or False? A meta description is another name for general webpage content.
Ans: False
Complexity: Hard
Ahead: World Wide Web Phases
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback: A meta description is a brief plan-language description of what the webpage contains.
Taxonomy:

11. True or False? The Common Gateway Interface (CGI) is a function in Hypertext Transfer Protocol (HTTP) with a set of rules and processes that interpret the actions of a webpage to interact with a web server, a database server, and the user's browser.
Ans: True
Complexity: Hard
Ahead: World Wide Web Phases
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback:
Taxonomy:

12. True or False? Groupware defines any collaborative software package or workgroup support system. Groupware tools include calendaring software and instant messaging.
Ans: True
Complexity: Medium
Ahead: The Early Internet
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback:
Taxonomy:

13. True or False? Tim Berners-Lee and Robert Cailliau introduced the concept of hypertext.
Ans: True
Complexity: Easy
Ahead: The World Wide Web (WWW)
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback:
Taxonomy:

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14. True or False? An application server is a part of an internal network and is placed between clients and other servers to filter requests, provide frequently requested content, and share and optimize communications.
Ans: False
Complexity: Medium
Ahead: Client/Server Computing
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback: A proxy server is a part of an internal network and is placed between clients and other servers to filter requests, provide frequently requested content, and share and optimize communications.
Taxonomy:

15. True or False? The resources required by a virtual machine (VM) are indicated in the configuration when the VM is defined. The hypervisor then allocates the physical resources (RAM, hard disk, etc.) per each VM's configuration and need.
Ans: True
Complexity: Hard
Ahead: Virtualization and Cloud Computing
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback:
Taxonomy:

16. True or False? Companies that subscribe to cloud computing services must continuously upgrade their hardware.
Ans: False
Complexity: Easy
Ahead: Virtualization and Cloud Computing
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback: With cloud computing, companies can leverage their existing hardware and network equipment; any future system growth occurs only at the cloud service provider's data center.
Taxonomy:

17. True or False? The virtual machine is essentially the operating system for a virtualized environment.
Ans: False
Complexity: Medium
Ahead: Virtualization and Cloud Computing
Subject: Chapter 1
Title: The Internet and the World Wide Web
Feedback: The hypervisor is essentially the operating system for the virtualized environment.
Taxonomy:

18. True or False? Platform as a Service (PaaS) is commonly used to build specific programming, testing, or modeling environments.
Ans: True
Complexity: Medium

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Ahead: Virtualization and Cloud Computing
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Title: The Internet and the World Wide Web
Feedback:
Taxonomy:

19. True or False? Grid and cloud computing are specific virtualization approaches and implementations.
Ans: True
Complexity: Medium
Ahead: Virtualization and Cloud Computing
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Title: The Internet and the World Wide Web
Feedback:
Taxonomy:

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