Network+ Guide to Networks, Seventh Edition

Chapter 12, Solutions

Review Questions

1. Which ICS component senses attributes of the physical system and converts analog data to digital data, but cannot control the physical system?

   A. SCADA

   B. RTU

   C. PLC

   D. HMI

Answer: B. RTU

2. Which server controls the physical system in an ICS system?

   A. Acquisitions server

   B. I/O server

   C. MTU

   D. Historian

Answer: C. MTU

3. What should you place between the corporate network and the ICS network?

   A. VLAN

   B. Dial-up connection

C. Redundant RTUs

D. DMZ

Answer: D. DMZ

4. Which business document fills the gap between an informal handshake and the legally binding signatures on contracts?

A. SLA

B. SOW

C. MOU

D. RFP

Answer: C. MOU

5. Your company has developed a Web site that includes a small program that collects real-time data on mortgage rates in specific geographic areas, and uses that information to calculate mortgage payment amounts based on the user's inputted data. The program was written by an independent software developer, who has granted your company a license to incorporate the program into your Web site for your customers' use. Which document was used?

A. SLA

B. MLA

C. RFP

D. SOW

Answer: B. MLA

6. Your team is in the process of implementing what you thought would be a relatively minor update to the NOS. You've hit a small but time-consuming snag, and it's now obvious that the update won't be completed until about an hour after your maintenance window passes. What should you do immediately?

   A. Consult the vendor documentation.

   B. Roll back the update and try again later.

   C. Bring the system back online and allow users to access any services that are available.

   D. Inform technical staff and users of the problem and what to expect.

Answer: D. Inform technical staff and users of the problem and what to expect.

7. Which of the following cards specifically contains an internal lithium battery?

   A. Smart card

   B. Active card

   C. Passive card

   D. Proximity card

Answer: B. Active card

8. Which type of disaster recovery site is the most expensive?

   A. Hot site

   B. Ambient site

   C. Warm site

   D. Cold site

Answer: A. Hot site

9. What process ensures that exact duplicates of servers are available if needed in the event of a disaster?

   A. Business continuity

   B. Server mirroring

   C. Network redundancy

   D. Contingency plan

Answer: B. Server mirroring

10. While troubleshooting a network connection issue on a corporate workstation, you've just discovered that the workstation has been used for illegal gambling activities. You've notified your supervisor, and she said she's on her way to collect the computer for an investigation. While you're waiting for your supervisor to arrive, what should you do?

    A. Play games on the computer to pass the time.

    B. Close all running programs.

    C. Start investigating browser history.

    D. On a separate device or on a sheet of paper, make notes on everything that you've seen and done so far.

Answer: D. On a separate device or on a sheet of paper, make notes on everything that you've seen and done so far.

11. Industrial systems become part of the IoT when _____.

Answer: They use the Internet for connectivity.

12. What is the primary difference between an open loop system and a closed loop system?

Answer: An open loop system has no sensors and makes decisions based on predetermined expectations, events, or past history. A closed loop system makes decisions based on real-time data.

13. Which network components should be documented in asset management documentation?

Answer: Nodes or hardware devices on the network, and each software package purchased by the organization

14. A service pack is a collection of _____.

Answer: Patches

15. What is the basic process for backleveling an operating system upgrade?

Answer: Prior to the upgrade, make a complete backup of the system; to backlevel, restore the entire system from the backup; uninstall an operating system upgrade only as a last resort.

16. How can a mantrap provide multifactor authentication?

Answer: A separate form of identification might be required for each door, such as a badge for the first door and a fingerprint scan for the second door.

17. What kind of device erases the contents of a magnetic hard drive?

Answer: Degausser

18. What kind of information can computer forensics recover that eDiscovery cannot?

Answer: Ambient data, such as deleted files and file fragments, and who has accessed that data and when

19. While upgrading a sales rep's corporate desktop computer, you notice some HR files for several coworkers from several different departments. You're pretty sure the sales rep shouldn't have access to this information, so you call your supervisor for assistance. He says he's on his way. Should you shut down the computer? Why or why not?

Answer: No. There is no evidence of ongoing damage from a running program, so the computer should remain powered up until your supervisor decides how to transport it.

20. When your supervisor arrives, she has a document with her for you to sign, indicating the condition of the computer, how you kept it secure while you waited for her, and the transfer of responsibility for the computer from you to her. What kind of document is it?

Answer: Chain of custody