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Exam : **1T6-521**

Title : Application Performance
Analysis & Troubleshooting

Version : DEMO

1. One component in an application turn is _____.

- A. Server response time
- B. Network process time
- C. Application response time
- D. Client acknowledgement time

Answer: A

2. When creating a filter in the Sniffer to select only the traffic to or from the client for a particular conversation, the best approach is to focus on a _____.

- A. TCP well known port number
- B. TCP unknown port number
- C. TCP ephemeral port number
- D. TCP port number in the range 512-1024

Answer: C

3. When using Application Intelligence, Server Time may be defined as _____.

- A. The total time required to send a request and receive a response
- B. The total time packets are on the network for a particular flow
- C. The total time it takes for a packet to travel from client to server based on TCP handshakes
- D. The net time for the server to respond to a client request

Answer: D

4. A large Window size used by a client could cause _____.

- A. The server to consume more resources
- B. Increased number of ACKs to be sent
- C. Increased delay when frames are lost
- D. None of the above

Answer: D

5. _____ is the amount of time, based on the engineering of the network, to complete a task.

- A. Throughput
- B. Delay
- C. Access time
- D. Latency

Answer: B

6. _____ is a protocol used to perform Control and Signaling functions in a VoIP conversation.

- A. Session Initiation Protocol
- B. Real-Time Streaming Protocol

C. Cisco Skinny Client Control Protocol

D. All of the above

Answer: D

7. When reviewing trace data in a multi-tier application, application server requests can be associated with database responses using _____.

A. TCP port numbers

B. Request ID

C. Raw data in the database response

D. Formatted data in the application response

Answer: A

8. An application that is sensitive to Jitter is primarily sensitive to _____.

A. Network congestion

B. Bandwidth latency

C. Distance latency

D. Application turns

Answer: A

9. What does a Window value of 8760 in a TCP header mean?

A. The sender is confirming the 8760 bytes have been sent

B. The sender has 8760 bytes in its buffer

C. The sender has received a total of 8760 bytes

D. The sender has buffer space for 8760 more bytes

Answer: D

10. The TCP 4-way handshake is used to _____.

A. Indicate the start of a flow of data

B. Identify the client request parameters

C. End a connection

D. Establish a connection

Answer: C

11. When using Application Intelligence, End-to-End Response Time may be defined as _____.

A. The total time required to send a request and receive a response

B. The total time packets are on the network for a particular flow

C. The total time it takes for a packet to travel from client to server based on TCP handshakes

D. The net time for the server to respond to a client request

Answer: A

12. To accurately calculate _____ we must know the slowest link speed in the path between client and server

- A. Distance latency
- B. Congestion delay
- C. Bandwidth latency
- D. Round-trip time

Answer: C

13. The image below is a view of the Sniffer Summary window.

| Source Address | Dest Address | Summary | Len (Bytes) |
|----------------|----------------|-------------------------------------------------------------|-------------|
| LOSBSHERMANLTO | web.xdrive.com | TCP: D=80 S=1045 SYN SEQ=2061578185 LEN=0 WIN=8760 | 62 |
| web.xdrive.com | LOSBSHERMANLTO | TCP: D=1045 S=80 SYN ACK=2061578186 SEQ=1437032377 WIN=8760 | 62 |
| LOSBSHERMANLTO | web.xdrive.com | TCP: D=80 S=1045 ACK=1437032377 WIN=8760 | 60 |
| LOSBSHERMANLTO | web.xdrive.com | HTTP: C Port=1045 GET /images/spacer.gif HTTP/1.1 | 395 |
| web.xdrive.com | LOSBSHERMANLTO | TCP: D=1045 S=80 ACK=2061578527 WIN=2485 | 60 |
| web.xdrive.com | LOSBSHERMANLTO | HTTP: R Port=1045 HTTP/1.1 Status=OK-43 bytes | 326 |
| LOSBSHERMANLTO | web.xdrive.com | Expert: Ack Too Long | 60 |
| LOSBSHERMANLTO | web.xdrive.com | TCP: D=80 S=1045 ACK=1437032649 WIN=8488 | 66 |
| web.xdrive.com | LOSBSHERMANLTO | HTTP: C Port=1045 GET /images/title_black_ho | 423 |
| LOSBSHERMANLTO | web.xdrive.com | HTTP: Continuation of frame 235:47 Bytes of c | 101 |
| LOSBSHERMANLTO | web.xdrive.com | TCP: D=80 S=1045 ACK=1437032649 WIN=8488 | 66 |
| web.xdrive.com | LOSBSHERMANLTO | HTTP: R Port=1045 HTTP/1.1 Status=OK-1076 b | 1314 |
| LOSBSHERMANLTO | web.xdrive.com | TCP: D=80 S=1045 ACK=1437033956 WIN=8760 | 60 |
| LOSBSHERMANLTO | web.xdrive.com | HTTP: C Port=1045 GET /x/images/title_black | 425 |
| web.xdrive.com | LOSBSHERMANLTO | HTTP: R Port=1045 HTTP/1.1 Status=OK-1002 b | 1204 |
| LOSBSHERMANLTO | web.xdrive.com | HTTP: C Port=1045 GET /images/title_black_b | 421 |
| web.xdrive.com | LOSBSHERMANLTO | HTTP: R Port=1045 HTTP/1.1 Status=OK-96 byte | 379 |
| LOSBSHERMANLTO | web.xdrive.com | HTTP: C Port=1045 GET /images/title_new_fea | 425 |
| web.xdrive.com | LOSBSHERMANLTO | HTTP: R Port=1045 HTTP/1.1 Status=OK-2846 b | 1314 |
| web.xdrive.com | LOSBSHERMANLTO | HTTP: Continuation of frame 274:1260 Bytes o | 1314 |
| LOSBSHERMANLTO | web.xdrive.com | TCP: D=80 S=1045 ACK=1437037951 WIN=8760 | 60 |

How many application turns are shown?

- A. 5
- B. 6
- C. 7
- D. Can not be determined based on the information shown

Answer: A

14. Which of the following statements is true regarding the Real-time Transport Protocol?

- A. Used by several protocols to provide end-to-end transmission of real-time data
- B. Uses a proxy agent for client-server communications
- C. Operates as a client-server protocol
- D. Keep-alive messages provide status information

Answer: A

15. When capturing data in a multi-tier environment, attach the Sniffer to the application server using _____. (Choose all that apply)

- A. A full duplex interface

- B. A tap on the server connection
- C. A mirror on the server switch port
- D. A mirror on the database switch port
- E. Two Sniffer network analyzers

Answer: BC

16. The well-known port used by FTP servers to establish a Data connection is:

- A. 10
- B. 20
- C. 21
- D. Variable

Answer: C

17. The slowest component on a server will be _____.

- A. Random Access Memory (RAM)
- B. Disk I/O
- C. Central Processing Unit (CPU)
- D. The constraint (bottleneck)

Answer: D

18. When using Application Intelligence to isolate traffic distribution we should focus on _____.

- A. Throughput
- B. Number of packets
- C. Total number of bytes
- D. All of the above

Answer: D

19. Which of the following may contribute to poor application performance? (Choose all that apply)

- A. Client processing of incoming requests
- B. Server processing of incoming requests
- C. Queuing of frames on an intermediate router
- D. Efficient use of TCP/IP protocols
- E. Inefficient configuration of TCP

Answer: BCE

20. The _____ type of application usually does not have any request/reply interactions after the initial session is established.

- A. Interactive
- B. Throughput-oriented

C. Transaction-oriented

D. Streaming

Answer: D