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Exam : **000-917**

Title : System Administration for
IBM Informix Dynamic
Server V10

Version : DEMO

1. A dbspace was recently added to a database server. Which of the following commands will help identify whether disk layout problems exist as a result of adding the dbspace?

- A. onstat -g iob
- B. onstat -g iov
- C. onstat -g iof
- D. onstat -g glo

Answer: C

2. The following error message appears in the database server message log:

```
09:28:43 Aborting Long Transaction: tx 0xa43c728 username: sallyr uid: 200
```

This transaction has rolled back. Which of the following best describes the situation in the error message?

- A. A transaction has spanned multiple logical-log files and has caused the logical-log files to fill to 100% full.
- B. A transaction has caused the physical-log file to fill to the percentage indicated by the LTXHWM configuration parameter.
- C. A transaction has caused a single logical-log file to fill to the percentage indicated by the LTXHWM configuration parameter.
- D. A transaction starting in the oldest log is open, and the percentage of logical-log files filled has passed the LTXHWM configuration parameter.

Answer: D

3. Given the following information collected by the 'onstat -d' command:

dbspaces number	fchunk	nchunks	pgsize	flags	owner	name
1	1	1	2048	N B	informix	rootdbs
2	2	1	2048	N B	informix	dbspace1
3	3	1	2048	M B	informix	temp_space1
4	4	1	2048	N B	informix	temp_space2
5	5	1	2048	N TB	informix	dbspace2

What type of dbspace is the 'temp_space2' dbspace?

- A. Blob dbspace

- B. Normal dbspace
- C. Mirrored dbspace
- D. Temporary dbspace

Answer: B

4. A Database Administrator is configuring the files to establish network connections on a UNIX system, which uses a sockets interface and a TCP/IP protocol.

The DBSERVERNAME configuration parameter has been set to 'dbserver1' and the name of the UNIX host machine is 'chicago1'. The service name used is 'sqlxec'.

Which of the following entries in the sqlhosts file should be used?

- A. chicago1 sqlxec dbserver1 onsoctcp
- B. chicago1 onsoctcp dbserver1 sqlxec
- C. dbserver1 onsoctcp sqlxec chicago1
- D. dbserver1 onsoctcp chicago1 sqlxec

Answer: D

5. A database server has been running for days but after monthly reports were run, the following message appeared in the online.log:

12:25:01 Memory allocation error

Which of the following most likely caused the error?

- A. The DS_TOTAL_MEMORY has been reached.
- B. The swap space on the computer has been set too high.
- C. An operating system limit on shared memory has been reached.
- D. The BUFFERS and SHMVIRTSIZE configuration parameters are larger than the maximum segment size allowed.

Answer: C

6. Images with an average size of 50 bytes are to be stored as large objects in the database. For a database server that uses a 4KB page size, which of the following methods should be used to store the large objects and utilize disk space most efficiently?

- A. Create a normal dbspace to store the large objects.
- B. Create a blobspace with a 2KB blobpage size to store the large objects.
- C. Create a blobspace with an 8KB blobpage size to store the large objects.
- D. Create a blobspace with a 16KB blobpage size to store the large objects.

Answer: A

7. A Database Administrator needs to know the physical location of a table. Which of the following commands would show this information?

- A. oncheck -pe
- B. oncheck -pr
- C. oncheck -pR
- D. oncheck -pp

Answer: A

8. To specify which configuration file to use, the ONCONFIG environment variable must be set to the:

- A. name of the configuration file to use.
- B. path of the configuration file to use.
- C. path and name of the configuration file to use.
- D. \$INFORMIXDIR/etc directory where the configuration file will be located.

Answer: A

9. Which of the following best describes external backups on the IBM Informix Dynamic Server?

- A. An external backup allows backups using onbar or ontape; database transactions are active during external backups.
- B. An external backup allows backups using onbar or ontape; database transactions are suspended during external backups.
- C. An external backup allows backups using operating system or third-party utilities; transactions are active during external backups.
- D. An external backup allows backups using operating system or third-party utilities; transactions are suspended during external backups.

Answer: D

10. Following are outputs of 'onstat -k' and 'onstat -u' command:

```
$ onstat -k
IBM Informix Dynamic Server Version 10.00.FC4 -- On-Line -- Up 25 days 02:30:31
Locks
address  wtlist  owner    lklist  type    tblsnum  rowid    key#/bsiz
a154de0  0       afd30c8  0       HDR+S   100002   205      0
a154e58  0       afd38f0  0       HDR+S   100002   201      0
a155380  0       afd5990  0       S       100002   205      0
a1554e8  0       afd5168  0       S       100002   205      0
 4 active, 2000 total, 2048 hash buckets, 0 lock table overflows
```

```
$ onstat -u
IBM Informix Dynamic Server Version 10.00.FC4 -- On-Line -- Up 25 days 02:30:45
Userthreads
address  flags  sessid  user    tty  wait    tout  locks  nreads  nwrites
afd1028  ---P--D 1       informix -   0     0     0     31     34
afd1850  ---P--F 0       informix -   0     0     0     0     756
afd2078  ---P--- 5       informix -   0     0     0     0     0
afd28a0  ---P--B 6       informix -   0     0     0     0     0
afd30c8  Y--P--- 34      informix 5    b34c2c8 0     1     1     0
afd38f0  Y--P--- 36      informix 10   b2e65a0 0     1     12    0
afd4118  ---P--D 9       informix -   0     0     0     0     1
afd4940  Y--P--D 15      informix -   a140738 0     0     0     0
afd5168  Y--P--- 38      informix 10   be28550 0     1     0     0
afd5990  Y--P--- 40      informix 10   b4e8c50 0     1     0     0
 10 active, 128 total, 18 maximum concurrent
```

Users are reporting that they cannot access a table because they are getting errors indicating that the table is locked. The Lock address 'a155380' is holding a lock on the table. What is the session id for lock address 'a155380'?

- A. 34
- B. 36
- C. 38
- D. 40

Answer: D

11. A database server is experiencing slow query response times. Operating system utilities show that all 6 CPUs are at around 50% utilization. There are currently 4 CPU VPs configured on the database server. Of the following, which is the most probable change that could be made to correct this problem?

- A. Add more AIO VPs.
- B. Add more CPU VPs.
- C. Turn on Processor Affinity.

D. Add more physical processors to the machine.

Answer: B

12. Querying the sysmaster database table sysdatabases returns a row with a value of 1 for is_logging and a value of 0 for is_buff_log and is_ansi; What is the current log status of the database?

A. ANSI

B. Not logged

C. Buffered logging

D. Unbuffered logging

Answer: D

13. In which of the following situations is a checkpoint requested?

A. When the logical logs are filled

B. When the physical log file is 75% full

C. When a buffered-logging database is created

D. When the value of the LTXHWM configuration parameter is passed

Answer: B

14. A Database Administrator is configuring the NETTYPE configuration parameter to set the number of poll threads for shared memory connections. The administrator would like to allow 100 users, 2 poll threads, and run the poll threads on a CPU VP. Based on the above information, the Database Administrator should configure the NETTYPE parameter with which of the following entries?

A. ipcshm,2,50,CPU

B. ipcshm,50,2,NET

C. ipcshm,100,2,CPU

D. ipcshm,2,100,CPU

Answer: A

15. External C functions are to be created and registered in the database server to support new data types. It is important to have these routines run exclusively on a virtual processor where it will not block

threads running on other VPs. Which of the following VP classes should be used for these functions?

- A. JVP VP
- B. CPU VP
- C. MSC VP
- D. USR VP

Answer: D

16. For a database server that uses a 2KB page size, which of the following commands creates a temporary dbspace that is 10,000KB in size?

- A. onspaces -c -d tempdbs -p /dev/rawdev1 -o 0 -s 5000
- B. onspaces -c -d tempdbs -p /dev/rawdev1 -o 0 -s 10000
- C. onspaces -c -d tempdbs -t -p /dev/rawdev1 -o 0 -s 5000
- D. onspaces -c -d tempdbs -t -p /dev/rawdev1 -o 0 -s 10000

Answer: D

17. Which of the following commands shows the number of page cleaners configured and type of write that flushes pages to disk?

- A. onstat -F
- B. onstat -f
- C. onstat -R
- D. onstat -r

Answer: A

18. An instance was created by developers during the Database Administrator's absence. Tables have been created in a database and a system has gone live. The developers did not know anything about IBM Informix Dynamic Server other than how to create a minimal instance. The instance just crashed, 15 minutes after going live. Given the statements below:

- Rootdbs is too small.
- Applications are waiting on locks.
- Deadlocks abound.

- Disk space ran out.

What are the likely problems that caused the crash?

- A. Logical Logs and physical log and temp space found therein, along with all of the database indexes and tables. Tables have table locks.
- B. Logical Logs and physical logs and temp space found therein, along with all of the database indexes and tables. Tables have page locks.
- C. Logical Logs and physical log and temp space found therein, along with all of the database indexes and tables. Tables have page locks.
- D. Logical Logs and physical logs and temp space found therein, along with all of the database indexes and tables. Tables have row locks.

Answer: C

19. On a busy system, index cleaning is running in a slower pace and that needs to change. Which of the following commands will provide information about the current priority of threads responsible for index cleaning?

- A. onstat -g glo
- B. onstat -g ath
- C. onstat -P
- D. onstat -C

Answer: D

20. A Database Administrator is experiencing database backup performance problems. The database server has ten dbspaces and each of them consists of four 2 Gigabyte chunks. OnBar is used as the backup utility. A level 0 archive is started at 24:00 every night and it runs for 12 hours. Optimizing which of the following database parameters would most likely reduce the backup time?

- A. TAPEBLK
- B. TAPESIZE
- C. ISM_DATA_POOL
- D. BAR_MAX_BACKUP

Answer: D