

# 000-917

## IBM

### *C2040-917 - System Administration for IBM Informix Dynamic Server V10*

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**Question: 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**

**Question: 2**

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

```
09:20:43 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**

**Question: 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**

**Question: 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 'sqlexec'. Which of the following entries in the sqlhosts file should be used?

- A - chicago1 sqlexec dbserver1 onsoctcp
- B - chicago1 onsoctcp dbserver1 sqlexec
- C - dbserver1 onsoctcp sqlexec chicago1
- D - dbserver1 onsoctcp chicago1 sqlexec

**Answer: D**

**Question: 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**

**Question: 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**

**Question: 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 - uncheck-pR
- D - oncheck-pp

**Answer: A**

**Question: 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**

**Question: 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**

**Question: 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 'a 155380' 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**

**Question: 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

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