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000-676

IBM

xSeries - Linux Installation/Performance Optimization

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QUESTION: 1

On an xSeries server running Linux, which of the following procedures would be used to determine the number and speed of processors installed in the server?

- A. Run top
- B. Examine the /proc/cpuinfo file
- C. Run lsproc
- D. Examine the proc/sysinfo file

Answer: B

QUESTION: 2

On an xSeries server running Linux, where is the configuration file for the first Ethernet device stored?

- A. /etc/network/ifcfg-eth0
- B. /etc/netconfig/ifcfg-eth0
- C. /etc/sysconfig/network/ifcfg-eth0
- D. /etc/sysconfig/network-scripts/ifcfg-eth0

Answer: D

QUESTION: 3

When considering the hardware requirements for a new Web server that will be hosting dynamic content, which of the following server subsystems will be stressed most in this environment?

- A. CPU
- B. Disk
- C. Memory
- D. Network

Answer: C

QUESTION: 4

The graphic is taken from the Configuration and Options Guide, Server Selection section. Compare suggested configurations for database and file/print servers, and

consider how different subsystems are utilized within each server type.

| Application/ Expectation of Maximum # of Users | | xSeries 345 Dual Xeon DP 2.4GHz/ 512KB | xSeries 235 Dual Xeon DP 2.4GHz/ 512KB | xSeries 250 Quad Pentium III Xeon 900MHz¹/ 2MB | xSeries 255 Quad Xeon MP 1.6GHz/ 1MB | xSeries 360 Quad Pentium III Xeon 1.6GHz/ 1MB | xSeries 440 Eight-way Xeon MP 1.6GHz/ 1MB |
|---|--|---|---|--|---|--|--|
| DB Transaction Processing Select, Update and Delete; Does not include image or Decision Support | # Users | 4400 | 7150 | 7030 | 11000 | 9225 | 16740 |
| | # Processors | 2 | 2 | 4 | 4 | 4 | 8 |
| | Memory | 4GB | 8GB | 4GB | 8GB | 8GB | 16GB |
| | # Hard Disk Drives | 60 to 80 | 50 to 70 | 80 to 140 | 125 to 200 | 100 to 175 | 150 to 200 |
| | # RAID Adapters | Fibre | ≥2 | ≥4 | ≥4 or Fibre | ≥4 | ≥5 or Fibre |
| | # Network Connections | 1 to 2 | 1 to 2 | 2 to 3 | 2 to 3 | 2 to 3 | 2 to 3 |
| File and Print Application is stored locally. (For server stored applications cut number of users in half). | # Users | 2700 | 5500 | 5000 | 6500 | 6500 | 7150 |
| | # Processors | 2 | 2 | 2 | 3-4 | 3-4 | 3-4 |
| | Memory | 2 - 3GB | 2 to 4GB | 2 to 4GB | 4GB | 3 to 4GB | 4GB |
| | # Hard Disk Drives | 20 to 30 | 50 to 90 | 50 to 90 | 75 to 150 | 60 to 100 | 75 to 150 |
| | # RAID Adapters | 1 to 2 | ≥4 | ≥4 | ≥4 or Fibre | ≥3 | ≥4 or Fibre |
| | # 100Mbps Ethernet Connections | 1Gb | 4 or 1Gb | 4 or 1Gb | 4 or 1Gb | 4 or 1Gb | 4 or 1Gb |
| Other Distinguishing Features | Max # Processors | 2 | 2 | 4 | 4 | 4 | 8 |
| | Max Memory | 4GB | 6GB | 16GB | 12GB | 8GB | 32GB |
| | Max Int Storage | 440.4GB | 660.6GB | 734GB | 880.8GB | 220.2GB | 146.8GB |
| | Max Int Storage with Int Tape Drive | - | 440.4GB | 734GB | 880.8GB | - | - |
| | Available PCI Slots | 5 | 6 | 6 | 7 | 6 | 6 |
| | 19in Rack Models | X | - | X | X | X | X |

Based on these configurations it can be concluded that fewer network connections are needed for database servers because network traffic generated by database queries is usually made up of _____.

- A. smaller transfers of randomly selected records.
- B. large transfers of large sequential records.
- C. streaming data transfers.
- D. single record transfers.

Answer: A

QUESTION: 5

True or False: Optimizing the Linux kernel to match both the hardware available and the needs of the system is an important aspect of performance tuning.

- A. True
- B. False



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