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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.

<b>Application/ Expectation of Maximum # of Users</b>		<b>xSeries 345 Dual Xeon DP 2.4GHz/ 512KB</b>	<b>xSeries 235 Dual Xeon DP 2.4GHz/ 512KB</b>	<b>xSeries 250 Quad Pentium III Xeon 900MHz<sup>1</sup>/ 2MB</b>	<b>xSeries 255 Quad Xeon MP 1.6GHz/ 1MB</b>	<b>xSeries 360 Quad Pentium III Xeon 1.6GHz/ 1 MB</b>	<b>xSeries 440 Eight-way Xeon MP 1.6GHz/ 1MB</b>
<b>DB Transaction Processing</b> Select, Update and Delete; Does not include image or Decision Support	<b># Users</b>	<b>4400</b>	<b>7150</b>	<b>7030</b>	<b>11000</b>	<b>9225</b>	<b>16740</b>
	# 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
<b>File and Print</b> Application is stored locally. (For server stored applications out number of users in half).	<b># Users</b>	<b>2700</b>	<b>5500</b>	<b>5000</b>	<b>6500</b>	<b>6500</b>	<b>7150</b>
	# 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
<b>Other Distinguishing Features</b>	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

**SAMPLE EXAM**



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