

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/ 1 MB	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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