

# Practice Quiz: Understanding Slowness

TOTAL POINTS 5

1. Which of the following will an application spend the longest time retrieving data from?

1 / 1 point

- ☐ CPU L2 cache
- ☐ RAM
- ☐ Disk
- ☒ The network



**Correct**

Right on! An application will take the longest time trying to retrieve data from the network.

2. Which tool can you use to verify reports of 'slowness' for web pages served by a web server you manage?

1 / 1 point

- ☐ The top tool
- ☒ The ab tool
- ☐ The nice tool
- ☐ The pidof tool

✓ **Correct**

Great work! The ab tool is an Apache Benchmark tool used to figure out how slow a web server is based on average timing of requests.

3. If our computer running Microsoft Windows is running slow, what performance monitoring tools can we use to analyze our system resource usage to identify the bottleneck? (Check all that apply)

1 / 1 point

☒ Performance Monitor



**Correct**

Excellent! Performance Monitor is a system monitoring program that provides basic CPU and memory resource measurements in Windows.

☒ Resource Monitor



**Correct**

Nice job! Resource Monitor is an advanced resource monitoring utility that provides data on hardware and software resources in real time.

☐ Activity Monitor

☐ top

4. Which of the following programs is likely to run faster and more efficiently, with the least slowdown?

1 / 1 point

- ☐ A program with a cache stored on a hard drive
- ☒ A program small enough to fit in RAM
- ☐ A program that reads files from an optical disc
- ☐ A program that retrieves most of its data from the Internet

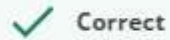
✓ **Correct**

Nice work! Since RAM access is faster than accessing a disk or network, a program that can fit in RAM will run faster.

5. What might cause a single application to slow down an entire system? (Check all that apply)

1 / 1 point

☒ A memory leak



**Correct**

Woohoo! Memory leaks happen when an application doesn't release memory when it is supposed to.

☐ The application relies on a slow network connection

☒ Handling files that have grown too large



**Correct**

Awesome! If files generated by the application have grown overly large, slowdown will occur if the application needs to store a copy of the file in RAM in order to use it.

☐ Hardware faults