200.1 - Measure and Troubleshoot Resource Usage

Weight: 6

Description: Candidates should be able to measure hardware resource and network bandwidth, identify and troubleshoot resource problems.

Key Knowledge Areas:

- Measure CPU usage
- Measure memory usage
- Measure disk I/O
- Measure network I/O
- Measure firewalling and routing throughput
- Map client bandwidth usage
- Match / correlate system symptoms with likely problems
- Estimate throughput and identify bottlenecks in a system including networking

The following is a partial list of the used files, terms and utilities:

- iostat
- netstat
- w
- top
- sar
- processes blocked on I/O
- blocks out
- vmstat
- pstree, ps
- lsof
- uptime
- swap
- blocks in

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