RH442 - Red Hat Performance Tuning: Linux in Physical, Virtual, and Cloud

- **Introduce performance tuning**
  - Describe performance tuning concepts and goals.

- **Select performance monitoring tools**
  - Evaluate the large selection of performance monitoring tools that are included with Red Hat Enterprise Linux.

- **View hardware resources**
  - View and interpret hardware resource listings.

- **Configure kernel tunables and tuned profiles**
  - Configure the operating system to tune for different workload requirements.

- **Manage resource limits with control groups**
  - Manage resource contention and set limits for resource use on services, applications, and users using cgroup configuration.

- **Analyze performance using system tracing tools**
  - Diagnose system and application behaviors using a variety of resource-specific tracing tools.

- **Tune CPU utilization**
  - Manage CPU resource sharing and scheduling to control utilization.

- **Tune memory utilization**
  - Manage settings for efficient memory utilization for different types of workloads.

- **Tune storage device I/O**
  - Manage settings for efficient disk utilization in various use cases.

- **Tune file system utilization**
  - Manage application efficiency for file system utilization.

- **Tune network utilization**
  - Manage application efficiency for network utilization.

- **Tune in virtualization environments**
  - Distinguish the requirements for tuning in virtualized environments.

- **Perform comprehensive review**
  - Demonstrate skills learned in this course by observing system performance using the appropriate tools, evaluating system metrics, and configuring settings to improve performance.

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