“HANDS-ON VLABS: CONFIGURING REGULAR TESTS USING PSCHEDULER CLI

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NSF Award 1829698
“CyberTraining CIP: Cyberinfrastructure Expertise on High-throughput Networks for Big Science Data Transfers”
LAB SERIES: PERFSIONAR
Lab Series: perfSONAR

- **Lab 1:** Configuring Admin. Information Using perfSONAR Toolkit GUI
- **Lab 2:** PerfSONAR Metrics and Tools
- **Lab 3:** Configuring Regular Tests Using perfSONAR GUI
- **Lab 4:** Configuring Regular Tests Using pScheduler CLI Part I
- **Lab 5:** Configuring Regular Tests Using pScheduler CLI Part II
- **Lab 6:** Bandwidth-delay Product and TCP Buffer Size
- **Lab 7:** Configuring Regular Tests Using a pSConfig Template
- **Lab 8:** perfSONAR Monitoring and Debugging Dashboard
- **Lab 9:** pSConfig Web Administrator
- **Lab 10:** Configuring pScheduler Limits
Organization of Lab Manuals

• Each lab starts with a section *Overview*
  ➢ Objectives
  ➢ Lab topology
  ➢ Lab settings: passwords, device names
  ➢ Roadmap: organization of the lab

• Section 1
  ➢ Background information of the topic being covered (e.g., fundamentals of TCP congestion control)
  ➢ Section 1 is optional (i.e., the reader can skip this section and move to lab directions)

• Section 2… n
  ➢ Step-by-step directions
LAB 1: CONFIGURING ADMINISTRATIVE INFORMATION USING PERFSONAR TOOLKIT GUI
The user can configure regular test via perfSONAR Toolkit GUI as well as the administrative information about a perfSONAR node.
LAB 4: CONFIGURING REGULAR TESTS USING PSCHEDULER CLI PART I
pScheduler

- The pScheduler coordinates, executes, and optionally stores network measurements
  - E.g., latency, packet loss rate, throughput
- The pScheduler can be invoked via CLI or GUI

Training scenario
The pScheduler Command

- The pScheduler command is used to create new tasks
- E.g.,

```
pscheduler task latency --source 192.168.1.10 --dest 192.168.2.10
```
LAB 5: CONFIGURING REGULAR TESTS USING PSCREEN SCHEDULER CLI PART II
The pScheduler Command

- The pScheduler command provides the options to repeat and visualize regular tests
- E.g.,

```bash
pscheduler task --repeat PT2M throughput --source 192.168.1.10 --dest 192.168.2.10
```