

# perfs-ONAR

## perfSONAR Hands-on Mesh measurements

*ASTRON perfSONAR training*

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# What you will learn

- Basic structure of pSConfig template in the lab central server
  - Building blocks
  - Mesh types
- Joining the predefined mesh with latency and traceroute measurements
- Troubleshooting logs

# Mesh configuration

1. Build a JSON template (in central server)
  1. Let's review it
2. Take the generated template and publish it to the web in the central server
  1. Already pre-published
3. Configure your host agent to read your published template
  1. Run `psconfig pscheduler-stats`
    - Will follow more on a next slide
  2. Run the following command to point the pscheduler-agent at the template:

```
psconfig remote add https://HOST/psconfig/astron-latency-mesh.json
```



# Reviewing logs

- But before...
  - Run `psconfig pscheduler-stats`
    - When did my agent last run?
    - What templates is it using?
- `key=value`
- The agent log: `/var/log/perfsonar/psconfig-pscheduler-agent.log`
  - Tracks basic information about agent activity and any errors encountered
  - Useful as the first log to review when debugging as it provides a quick summary of the agent's actions

# Reviewing logs

- The task log:

- `/var/log/perfsonar/psconfig-pscheduler-agent-tasks.log`
- Tracks the pScheduler tasks the agent manages
- Useful if you need to look at how pSConfig is defining tasks it gives (or tries to give) to pScheduler

- The transaction log:

- `/var/log/perfsonar/psconfig-pscheduler-agent-transactions.log`
- Logs each individual interaction with pScheduler. Each line provides context such as the action being performed, the pScheduler server URL and the raw JSON sent/received from the server. This log is intended to be verbose.

# In troubles?

- Use support
  - `perfsonar-user@perfsonar.net`