



perfSONAR 5.2 training

Hands-on: pSConfig

Lætitia Delvaux, PCSS

WP6T3 Lead in GÉANT GN5-2

Dublin, Ireland

02-03 December 2025

Public (PU)

GN5-2

pSConfig: the perfSONAR orchestrator (or a template framework)

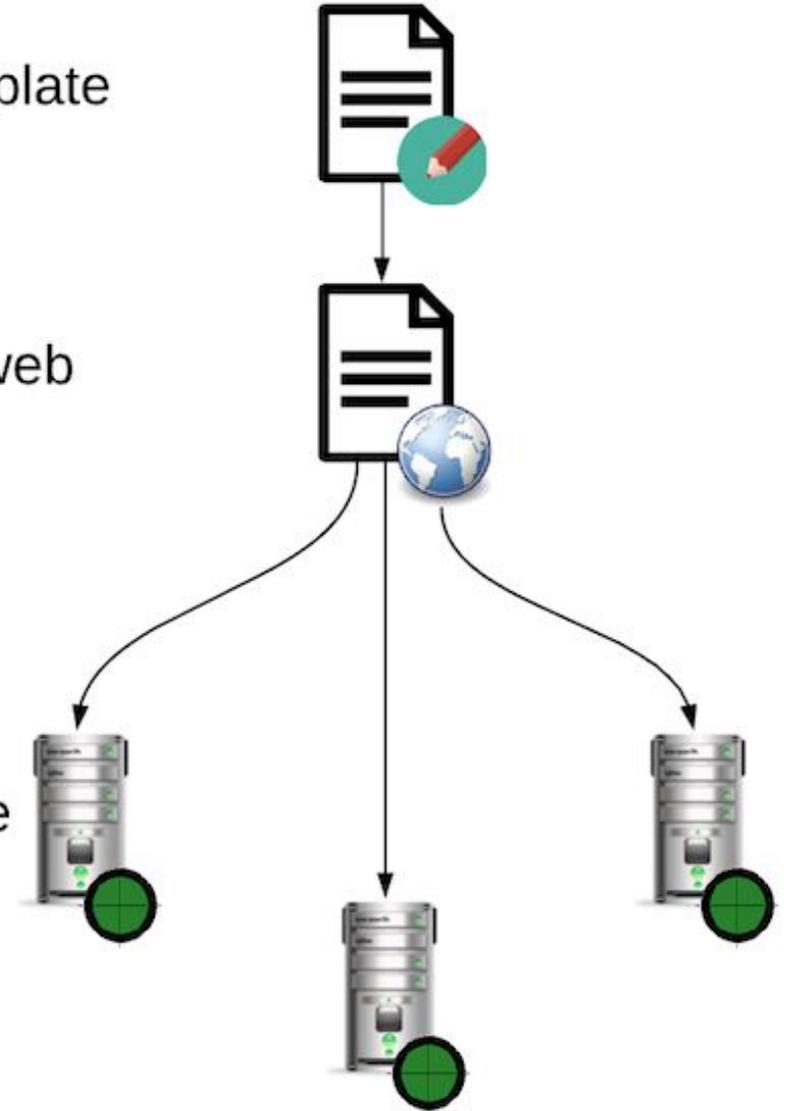
- Describing and configuring a topology of pScheduler tasks between multiple perfSONAR hosts
- Different pieces:
 - Templates to describe a task (test, parameters, hostnames, schedule, archiving)
 - All that is kept in a JSON file
 - Agents to use the file and perform some functions:
 - pscheduler-agent
 - grafana-agent
 - hostmetric-agent

pSConfig workflow

Step 1: Create pSconfig template

Step 2: Publish template to web

Step 3: Agents read template



From: https://docs.perfsonar.net/psconfig_intro.html

pSConfig Quick Start



- We published an initial psconfig-heanet-training.json file, on the archive host, and we want to use it for all workshop hosts
- We follow a few steps:
 - Check we can access and read the file

```
curl -s https://perfsonar-ws-archive.heanet.ie/psconfig/psconfig-heanet-training.json
```

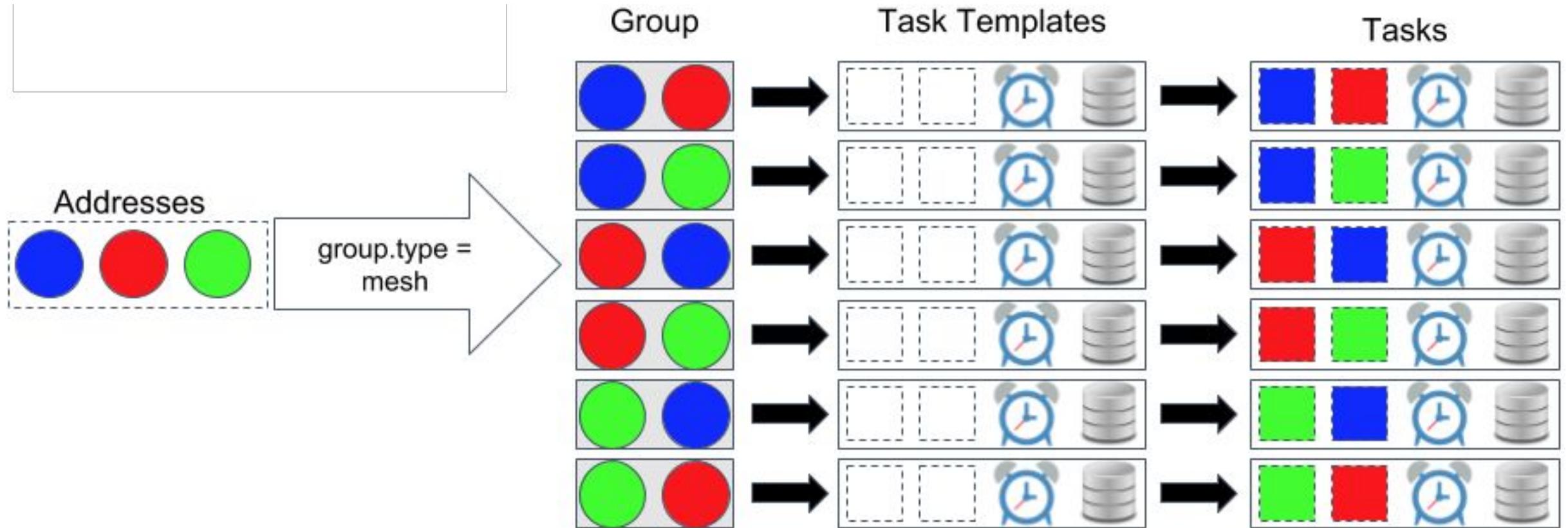
- Load it locally

```
psconfig remote add  
https://perfsonar-ws-archive.heanet.ie/psconfig/psconfig-heanet-training.json
```

- Check it has been loaded

```
psconfig remote list  
tail -f /var/log/perfsonar/psconfig-pscheduler-agent.log
```

pSConfig file content



From: https://docs.perfsonar.net/psconfig_templates_intro.html

pSConfig Quick Start



- The file is also loaded on the Grafana server, to create the dashboards
- If no errors:
 - Check if tasks have been created:

```
psconfig stats pscheduler
```

- pSConfig skeleton file:
 - <https://github.com/perfsonar/psconfig/blob/master/psconfig/perfsonar-psconfig/doc/skeleton.json>