


perfs--NAR

perfSONAR central measurements management training

eduPERT training

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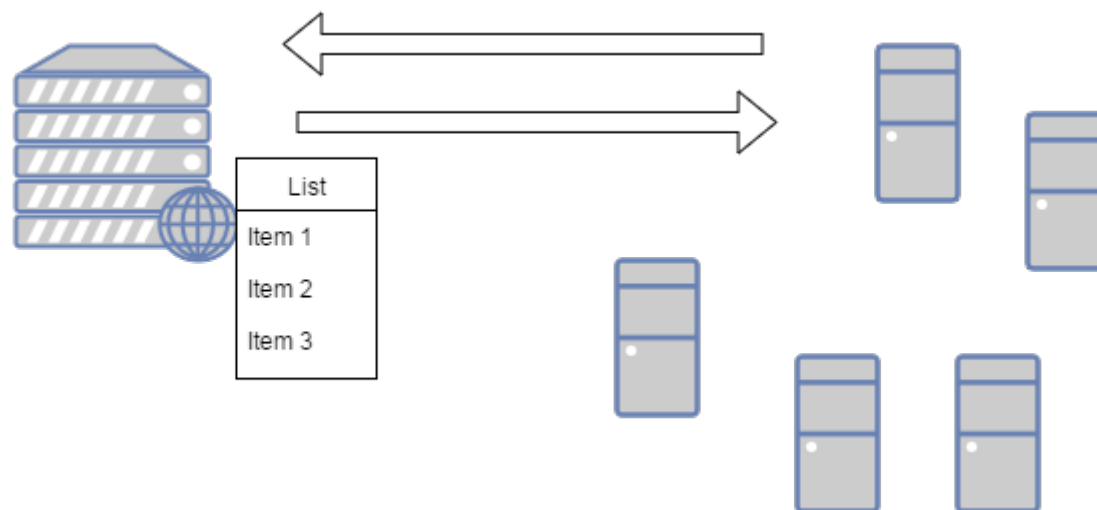


Meshconfig

- Concept and structure
- Generation process
- Hands-on

The concept

- Introduction to the concept of a measurement mesh



http://docs.perfsonar.net/release_candidates/4.0rc1/config_mesh.html

Meshconfig structure

- Sections
 - General description + optional
 - Mesh archivers
 - Organization
 - Test specifications
 - Test groups with topology
 - Test assignments

Meshconfig structure

- General description elements
 - Description: used by MaDDash
 - Administrator

Measurement structure

- Organization
 - Organization
 - Archivers
 - Host
 - no_age
 - address
 - Attention

```

<organization>
  description  eduPERT
  <measurement_archive>
    type      perfsonarbuoy/bwctl
    read_url   http://pertcs01.pert.edu/esmond/perfsonar/archive/
    write_url  http://pertcs01.pert.edu/esmond/perfsonar/archive/
  </measurement_archive>
  <site>
    <location>
      city Amsterdam
    </location>
    <host>
      address  pertmp01.pert.edu
    </host>
  </site>
</organization>
    
```

Meshconfig structure

- Test specifications

http://docs.perfsonar.net/release_candidates/4.0rc1/config_mesh.html#defining-test-parameters

- Throughput Test: *type perfsonarbuoy/bwctl*
- Streaming One-way Delay Test: *type perfsonarbuoy/owamp*
- Ping Test: *type pinger*
- Traceroute Test: *type traceroute*

Meshconfig structure

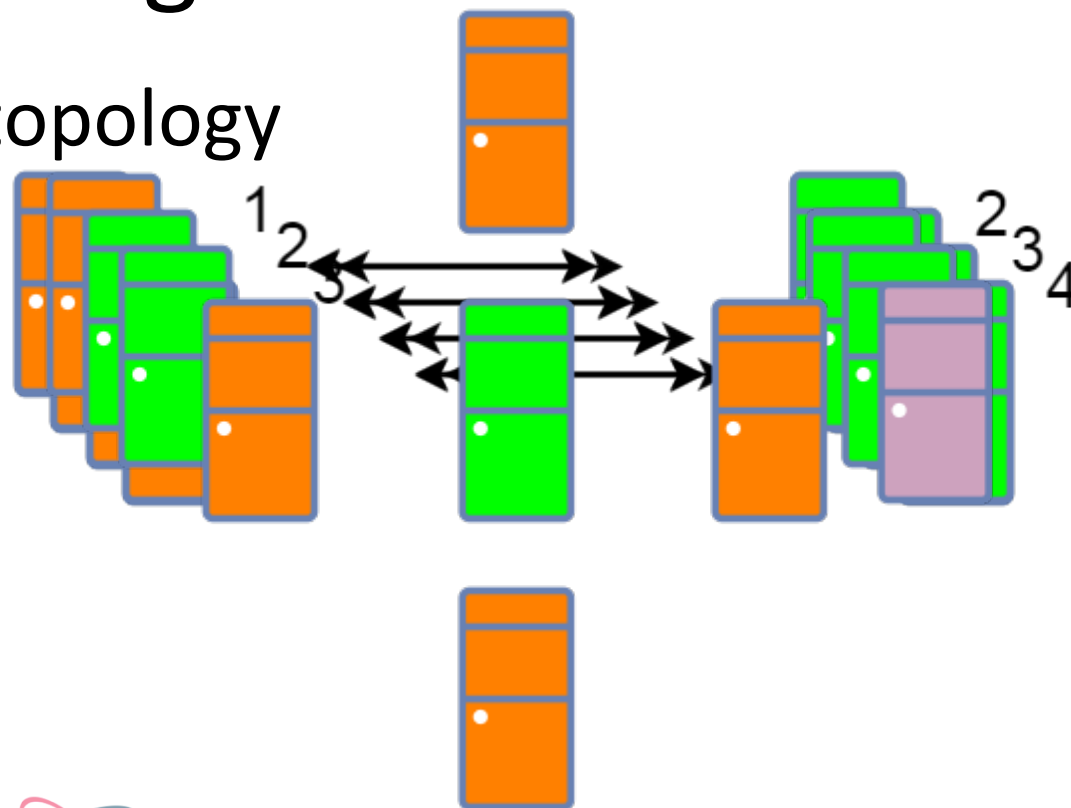
- Test groups with topology

– mesh

– disjoint

– ordered_mesh

– star



Meshconfig structure

- Test assignments
 - Description: used by MaDDash
 - Groups
 - Test specification

Meshconfig structure - Advanced

- Dynamic Mesh Generation

http://docs.perfsonar.net/release_candidates/4.0rc1/config_mesh.html#dynamic-mesh-generation

- <host_class>

- Host

- <address>

- tag

```
<address>  
  address 10.0.1.1  
  tag latency  
</address>
```

Generation process

- XML config -> JSON -> publish web
- Central server
 - xml templates in centos home folder
- `/usr/lib/perfsonar/bin/build_json -o output.json mesh-config.xml`

Hands-on

- Questions?
- Checkout the **shortcut.hints** file