# perfSONAR Dashboard Creation & Configuration

March 4th 2016

## Introduction

These instructions will prepare a host to run the perfSONAR dashboard software. In addition to the dashboard, the host will serve a JSON configuration file that measurement hosts will consume. These instructions assume CentOS 6, or perfSONAR Toolkit version 3.4.x or 3.5.x.

These instructions assume that <http://lcf-dashboard.es.net> will run the dashboard, any host will do though. Only one host has to have these steps performed.

## Manage JSON File from Configuration File

Install this package if you are using versions before 3.5.1 to convert the configuration file from the source format, to JSON. Note: this package may be installed already:

sudo yum install perl-perfSONAR\_PS-MeshConfig-JSONBuilder

If you are using 3.5.1 and above, install this software:

sudo yum install perfsonar-meshconfig-jsonbuilder

Copy the JSON file (osc-mesh.json) from the email to a readable URL location. If you are using versions prior to 3.5.1: cp osc-mesh.conf /opt/perfsonar\_ps/toolkit/web-ng/root so clients can consume it. If you are using version 3.5.1 and above: cp osc-mesh.conf /usr/lib/perfsonar/web-ng /root e.g.:

<http://ps-west.es.net/bes-mesh.json>

Using WGET or CURL, try to download this file from one of the other hosts, just to be sure they can see it.

## Download & Install Maddash Software

sudo yum install maddash

Performing this step will pull in additional software.

## Initially Configure Maddash Software

Make a backup of the /etc/maddash/maddash-server/maddash.yaml file. Delete all content from the original file, and add only these lines (note, you may need to edit this file using ‘sudo’):

##

# Set the directory where the database will be stored

database: /var/lib/maddash/

##

# Set the host where the REST server listens

serverHost: "localhost"

##

# Activate http and set the port where it listens

http:

port: 8881

This will ‘reset’ the dashboard configuration to a default state. The next couple of steps will allow us to configure the dashboard to use the JSON configuration, which will dictate which dashboards are shown.

## Install and Configure the GUI Configuration Agent

If you are using below version 3.5.1, install the GUI Configuration agent for Maddash (note: this package may be installed on your system already):

sudo yum install perl-perfSONAR\_PS-MeshConfig-GUIAgent

If you are using version 3.5.1 and above (note: this package may be installed on your system already):

sudo yum install perfsonar-meshconfig-guiagent

If you are using below version 3.5.1, this will install tools that are used to manage the configuration files. There will be a configuration file that needs to be changed, edit (using ‘sudo’ if necessary):

/opt/perfsonar\_ps/mesh\_config/etc/gui\_agent\_configuration.conf

If you are using version 3.5.1 and above:

/etc/perfsonar/meshconfig-guiagent.conf

add the following to the bottom:

<mesh>

configuration\_url http://ps-west.es.net/bes-mesh.json

</mesh>

The file may have another ‘configuration\_url’ already, pointing to something default. If this is the case, comment this out using a ‘#’. It is possible for this file to read multiple JSON files and participate in multiple dashboards.

If you are using below version 3.5.1, run a script to regenerate the YAML file you changed above:

sudo /opt/perfsonar\_ps/mesh\_config/bin/generate\_gui\_configuration

If you are using version 3.5.1 and above:

sudo /usr/lib/perfsonar/bin/generate\_gui\_configuration

## Set Default Dashboard (optional)

Edit /opt/maddash/maddash-webui/etc/config.json and set defaultDashboard to “OSC perfSONAR Mesh”

## Restart the Software

sudo /etc/init.d/maddash-server restart

## Verify the Configuration

Open the maddash web page in your browser at the following URL (replace MYHOST with the name of your host): http://lcf-dashboard.es.net

You should now be able to view the results of the checks being run.