



Best practices

Distribute the PERF workload to multiple hosts

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Introduction to PERF

Platform Enterprise Reporting Framework (PERF) provides the infrastructure for the reporting feature. Platform Symphony provides a set of out-of-box report templates, called standard reports. These report templates allow you to produce a report to analyze your cluster. The standard reports capture the most common and useful data to analyze your cluster.

You may also create custom reports from advanced queries to capture data beyond what is displayed in the standard reports.

Problem Description

A single host might experience performance issues when handling a high volume of workload. To resolve this issue, you can distribute the PERF workload to multiple hosts so that each host is responsible for a specific type of data loading.

For each data loader category, create new loader controllers on each host. Since there are two data loader categories, create two loader controllers on each host. In the example below, PLC_NAME represents the name of the new loader controller that you will create. For example, you can create `plc_soam` to handle SOAM-related data loaders and `plc_ego` to handle EGO-related data loaders.

How to Resolve the issue

You can refer to the following steps to make your application work.

1. From the `SHARED_TOP/eservice/esc/conf/services` directory, copy the `plc_service.xml` file to a new file, one for each new loader controller. For example, copy `plc_service.xml` to `plc_soam.xml` and `plc_ego.xml`.
2. Edit each service profile file and specify the new loader controller name.
 - Navigate to the `<ego:Command>` and `Service_Name` parameters and edit the values to specify the new loader controller name, as follows:
 - 1) In the `plc_soam.xml` file:

```
...ServiceName="plc_soam">
<ego:Command>EGO_TOP/perf/1.2/etc/plc.sh -f plc_soam.xml</ego:Command>
```
 - 2) In the `plc_ego.xml` file:

```
...ServiceName="plc_ego">
<ego:Command>EGO_TOP/perf/1.2/etc/plc.sh -f plc_ego.xml</ego:Command>
```
3. In the `SHARED_TOP/plc/conf` directory, create a new subdirectory for each new loader controller. Name each subdirectory `PLC_NAME`. For example, create new subdirectories named `plc_soam` and `plc_ego`.
4. Move the loader controller configuration files corresponding to the data loader categories from the `SHARED_TOP/plc/conf/plc` directory to the new subdirectories corresponding to the new loader controllers that will handle each category of data loaders, respectively. For example:
 - Move `plc_soam.xml` from `SHARED_TOP/plc/conf/plc` to `SHARED_TOP/plc/conf/plc_soam`.
 - Move `plc_ego.xml` from `SHARED_TOP/plc/conf/plc` to `SHARED_TOP/plc/conf/plc_ego`.

5. From the SHARED_TOP/plc/conf directory, copy the plc.xml loader controller file to a new file, one for each new loader controller. For each new loader controller, name the new file PLC_NAME.xml. For example, copy plc.xml to plc_soam.xml and plc_ego.xml.

6. Edit each new loader controller file and change the Port parameter to a new port number and change the PLCDir parameter to the new loader controller directory. For example:

- In the plc_soam.xml file, change the Port value from 4046 to 4047, and change the PLCDir value from plc to plc_soam.
- In the plc_ego.xml file, change the Port value from 4046 to 4048, and change the PLCDir value from plc to plc_ego.

7. On each host, in the SHARED_TOP/eservice/esc/conf/services directory, edit each new plc_PLC_NAME.xml file and change the value of the select(xxx) parameter to specify the host name on which you want that loader controller to run. For example, if you want the SOAM-related loader controller to run on host1_name and the EGO-related loader controller to run on host2_name, then set the select parameters on each host as:

- In the plc_soam.xml file:
select(host1_name)
- In the plc_ego.xml file:
select(host2_name)

8. Restart EGO to start the new loader controllers.

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