OCCI Monitoring

Augusto Ciuffoletti

OCCI Monitoring Extending the OCCI API with monitoring capabilities

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A first step towards SLA

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- Two types: the Collector and the Sensor

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- Plugins are organized into two collections: ToolSet and CollectorSet

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- The Sensor delivers its results to another Resource through a Collector
- The target resource can be, for instance, a Compute Resource that implements a resource management strategy

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A single stage scenario

Resource Manager Collector1 Sensor Collector2 Resource

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This corresponds to the basic case

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A single stage scenario



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- The collectors are characterized with two ToolSet mixins (Collector2),

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and one CollectorSet mixin (Collector1)

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A self-monitoring resource



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This is the simplest case

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A self-monitoring resource

Resource Manager Collector Generic Resource

- This is the simplest case
- The monitored resource has AggregatorSet mixins that expose metrics and controls

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A self-monitoring resource

Mixin Mixir Generic Resource Collector Manager Resource

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- The monitored resource has AggregatorSet mixins that expose metrics and controls
- e.g.: A Compute Resource with a syslog processor as a mixin



A multi-stage monitoring infrastructure



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An example to show how generic is the model

A multi-stage monitoring infrastructure





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- Multistage sensors: useful to cross provider boudaries

A multi-stage monitoring infrastructure



- An example to show how generic is the model
- Multistage sensors: useful to cross provider boudaries
- Combining measurements: a metric can result from combination

 Conformance profiles: to accomodate the presence of providers that do not implement a monitoring interface OCCI Monitoring

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That's all...

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