Firebird Butler in Python part II.
Introduction to Saturnin

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Part I.
Saturnin 101

What is Saturnin

A library of **Firebird Butler Services**, **Microservices** and **tools** written in *Python 3* using *Saturnin SDK*

- ✔ <u>set of building blocks</u> to build solutions to ensure stable operation of Firebird within the required parameters

- ✔ collection of <u>templates</u> to solve the most common situations and <u>pre-configured distribution packages</u> for deployment in everyday situations

- ✔ a solution deployment <u>platform</u>

- ✔ a new layer (server copilot) for delivering <u>advanced</u> Firebird server services and features

Intermezzo

Saturnin services in code and action

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Part II.
The Saturnin Node

The Saturnin Node, part I.
Factsheet

- ➔ Basically a Butler service to control the running of other services and microservices

- ➔ It runs in its own dedicated process (daemon)

- ➔ It can be installed with the Firebird server as a copilot

- ➔ It will have the ability to work with other nodes (to create a cluster)

- ➔ Important part of Saturnin solution delivery platform

The Saturnin Node, part II.
Current state

➔ Currently at early Apha – working prototype with limited functionality
  - ✔ INSTALLED_SERVICES
    REPLY with list of installed services available for execution on the node
  - ✔ RUNNING_SERVICES
    REPLY with list of services actually running on the node
  - ✔ INTERFACE_PROVIDERS
    REPLY with list of services that provide specified interface
  - ✔ START_SERVICE
    Start service on node. REPLY with service instance information
  - ✔ STOP_SERVICE
    Stop service running on node. REPLY with stop state
  - ✔ SHUTDOWN
    Shuts down the NODE service

➔ Node runner as standalone application

➔ Working prototype of basic CLI console

The Saturnin Node, part III.
Development plan

➔ Logging

➔ Configuration file

➔ CLI console

➔ Node runner as Windows service and Linux daemon

➔ Some planned standalone Butler services will become an integral part of the node service

  • logging service
  • registry service
  • data pipe hub service

➔ Dynamic cluster of nodes

Part III.
Saturnin applications

The Saturnin Applications
Development plan

➔ Basically a Butler runtime using a configuration file to assemble a functional system from services and microservices (the cfg file is a recipe)

➔ Core provided as class in Saturnin SDK

➔ Saturnin will provide universal script supporting configuration parametrization via CLI options as base for user applications

➔ Saturnin will also provide a runtime connected to repository of application recipes

Questions?

Thanks for your attention

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Saturnin:

- ✔ git: https://github.com/FirebirdSQL/saturnin
- ✔ Documentation: https://saturnin.rtfd.io/
- ✔ Mailing list: https://groups.google.com/d/forum/saturnin