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WFaaS: A New Modern, Embedded, Web Based, Configurable and Portable Monitoring Service for Monitoring International Data Centre Different Processes

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The International Data Centre (IDC) is using critical and complex systems with several distributed processes for receiving, processing, disseminating and archiving data and products. A dedicated tool called WorkFlow is used, among other tools, to monitor those systems. The tool is only available in Linux machines, uses intensive database resources, is hard to maintain and requires expertise for configuration. We are prototyping a new modern, embedded, web based, configurable, user friendly and portable monitoring service to help the IDC staff and its operations centre for effectively and efficiently monitoring the different systems. The states of the different processes are collected and cached independent of the IDC databases and can be shared among clients without exhausting the IDC databases. The front end is based on latest Hypertext Markup Language (HTML5) specifications and JavaScript. While the back end is implemented by Python and uses Tornado web framework. Also, several different views, flow types, roles, and permissions can be implemented. Additionally, the service is capable of and can be configured to monitor the states of any temporal data. The different capabilities of the service will be presented. Also, the advantages and limitations of the new service are outlined. Finally, future directions and recommendations will be discussed.

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Promotional text

We are prototyping a new modern, embedded, web based, configurable, user friendly and portable monitoring service to help the International Data Centre (IDC) staff and its operations centre for effectively and efficiently monitoring the IDC different systems.

Oral preference format

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