BigDataStack
Holistic stack for big data applications and operations

Complex Event Processing (CEP)

BigDataStack Software Component developed by UPM

Description

Complex Event Processing (CEP) engine is a parallel distributed data system for processing continuous infinite flows of data. CEP can run in a different type of hardware and adapts to the available resources and load.

Features

CEP runs in a distributed system made out of heterogeneous devices (servers, laptops, Rasberry Pi...). The CEP takes into consideration the resources of the device to deploy and run the queries and where data is generated to minimize network usage and latency.

Areas of Application

Any application that needs to process continuous (infinite) flows of data without storing them.

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POLITÉCNICA

Complex Event Processing (CEP)

Market trends & opportunities

CEP engines are data processing components for analysing data on the fly that are used in any application that needs to process data as soon as it is produced. With the increasing number of connected devices (IoT) the flows of data are increasing exponentially, and distributed CEP engines will be more and more used in new applications.

Customer benefits

The main benefits are the adaptation to the available resources and load without stopping the system.

Technological novelty

CEP main novelty is the dynamic reconfiguration of queries according to resource consumption and load either deployed in a local area network or in wide area network without stopping the system.

TRL level: 3