BigDataStack
Holistic stack for big data applications and operations

Singular Logic

Information Driven Networking

BigDataStack Software Component developed by SILO

The Information Driven Networking component provides a set of network engineering methods combined with software defined networking technologies over containers and virtual machines for the enforcement of targeted policies according to the data (real-time, near real- time and offline), security requirements and application needs. It supports a set of mechanisms operating at services layer to understand the virtual hosts, URLs and other HTTP headers and at network layer to understand the workloads in storage services, DNS and a plethora of other services that do not use HTTP.

Input

Types of policies to be enforced at service and network layer of networking operations among containers and virtual machines.

Output

Specific policy enforcement according to security constraints, real-time requirements (within ms), or as data workloads are changing in the cloud environment.

Initial TRL

TRL 3

Final TRL

TRL 5

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Information Driven Networking

End Users

- Network operators,
- Network engineers,
- Cloud providers

Key Features and Benefits

Information driven networking is fully parameterized and can be deployed in any cloud environment.

Standards involved in the development of the component

OSI standard

Implementation in BigDataStack Use Cases

All use cases, as it is a backend cloud environment mechanism.

Differentiators from competitors in the market

The Information Driven Networking component can be deployed over any cloud native environment.