

PolicyCLOUD Technical Overview

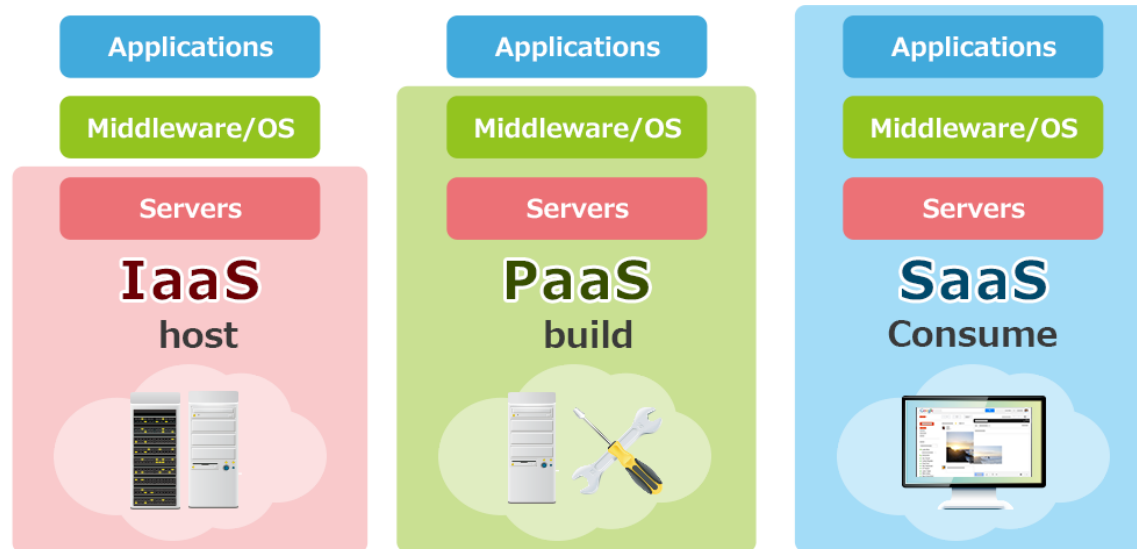
Vrettos Moulos (ICCS)

22/11/2022



Objective

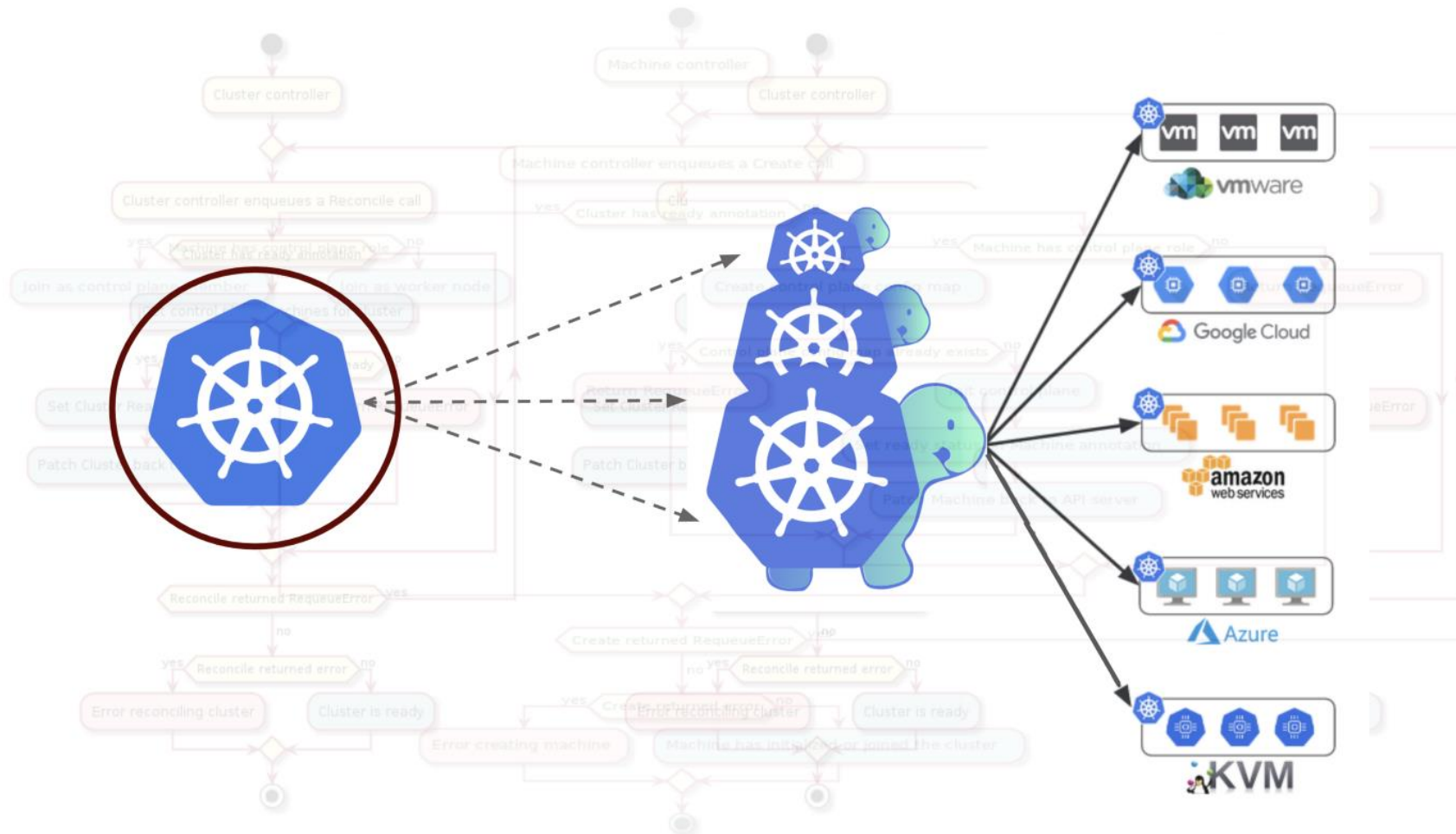
- PolicyCLOUD: Analytics-as-a -Service facilitating efficient data-driven public policy management



PolicyCLOUD IaaS

22/11/2021







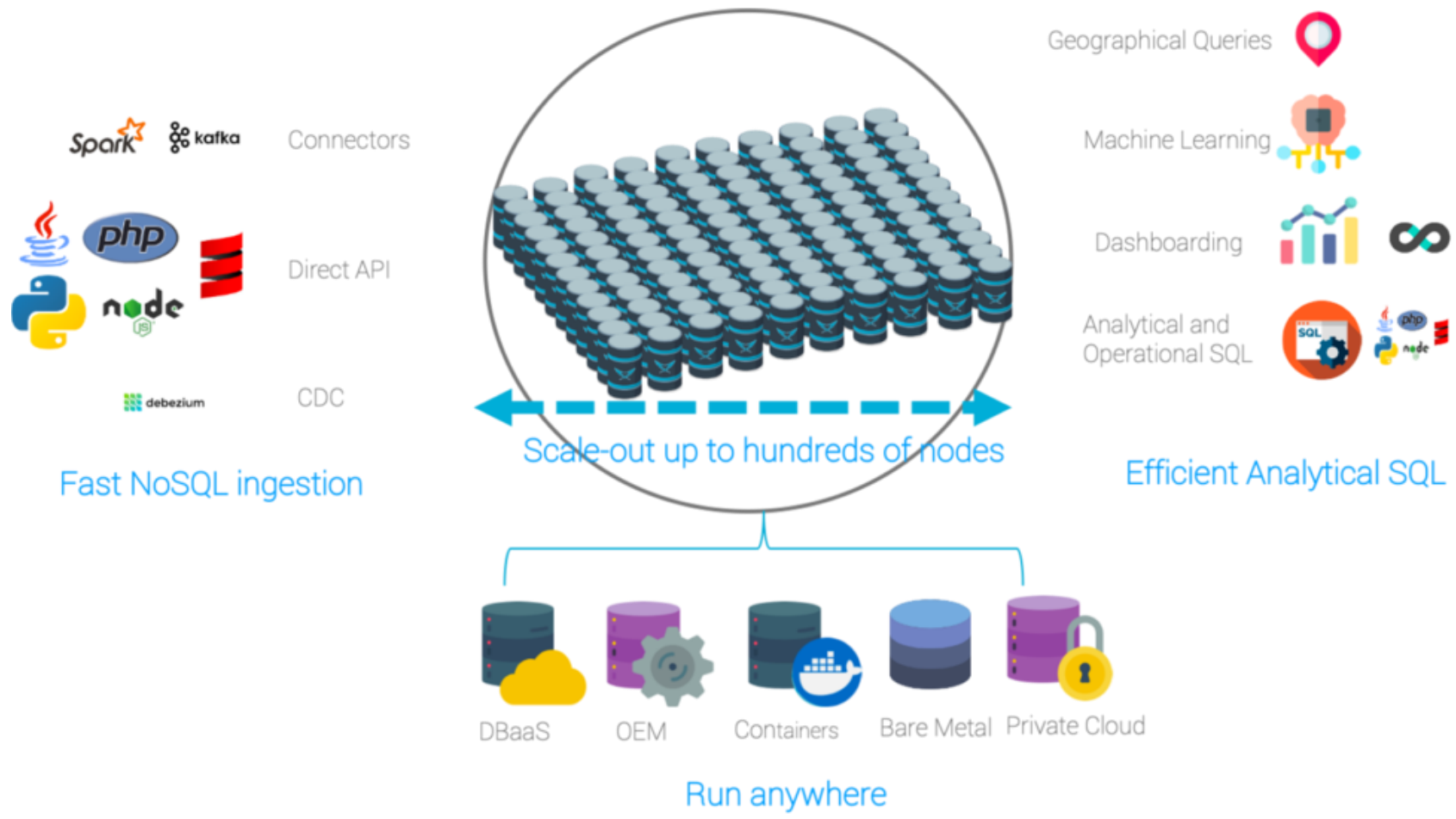
PolicyCLOUD PaaS

22/11/2022



PolicyCloud has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 870675.





PolicyCLOUD Standartization

22/11/2022



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Algorithmic Impact Assessment

- It is a critical piece of the Directive on Automated Decision-Making and we want to ensure its quality.

Is the impact resulting from the decision reversible?

- Yes, it is easily reversible. [risk value of 0]
- It is likely to be reversible. [risk value of 1]
- It is difficult to reverse. [risk value of 2]
- It is irreversible. [risk value of 3 or higher]

20. Did you ensure that staff understands how the system operates, its capabilities and limitations, in order to avoid over- or under-reliance?

Did you consult with the impacted communities about your definition of fairness?

- Yes [risk value of -1]
- No [risk value of 0]

i. the development of the system, in particular its algorithms;

1. Who designed the system and how was it developed?⁶ Who was it purchased from?
2. Are there any harmonised standards, as published in the Official Journal of the EU, or technical specifications, that (partly) apply to your system?

21. Have you considered how to maximise the benefits to the public by deploying the system?



PolicyCLOUD Marketplace-aaS

22/11/2022



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Beer, Liquor, and Wine Reviews Dataset

Wine Rating & Price Dataset

Global Terrorist Attacks

France Transport Traffic Dataset

Belgium Air Quality Dataset

Madrid Air Quality Dataset

Aragon's Wine Opinions and Prices Dataset

Sofia Violation of Public Order Dataset

Sofia Parking Dataset

Sofia Waste Dataset

Sofia Transport Dataset

Sofia Air Quality Dataset

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Wine Review Analysis

Vega: A Visualization Grammar

Aragon's Wine Ontology

PolicyCloud TA (Trend Analysis) Tool

PolicyCloud SA (Sentiment Analysis) Tool

PolicyCloud TSF (Timeseries Forecasting) Tool

PolicyCloud EDA (Exploratory Data Analysis) Tools

PolicyCloud Privacy Enforcement Mechanism

PolicyCloud Cloud Gateways & APIs Component

PolicyCloud Enhanced Interoperability Component

PolicyCloud Data Cleaning Component

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