Claims

1. A system for scheduling execution of function code between a plurality of cloud service platforms, the system comprising:

one or more computing devices comprising a gateway, wherein the gateway includes at least one connector configured to receive incoming function code from an application that is registered with the gateway;

a cloud service platform data aggregator, wherein the cloud service platform data aggregator is configured to receive service parameters from each of the plurality of cloud service platforms; and

a metric scheduler, wherein the metric scheduler defines policies for routing the incoming function code to at least one of the plurality of cloud service platforms,

wherein the gateway is configured to provide the incoming function code to one of the plurality of cloud service platforms for execution based on (i) the service parameters provided by each of the plurality of cloud service platforms and (ii) the policies provided by the metric scheduler,

wherein a set of connectors are selected for the application in response to the application being registered with the gateway during a registration process, each connector in the set of connections corresponding to a distinct protocol.

2. The system of claim 1, further comprising:

a graphical user interface, wherein the graphical user interface is configured to display at least one of the service parameters.

3. The system of claim 1, wherein the gateway triggers a function call to one of the plurality of cloud service platforms based on the incoming function code at the at least one connector.

4. The system of claim 3, wherein the function is called via one of a first calling mechanism and a second calling mechanism, wherein the first calling mechanism is associated with proprietary computing services and the second calling mechanism is associated with open source computing services.

5. The system of claim 1, wherein the aggregator is also configured to receive compliance and security information from each of the plurality of cloud service platforms.

6. The system of claim 1, wherein the gateway implements a routing algorithm in order to determine, for each of the plurality of cloud service platforms, (i) resources and time needed to execute a function associated with the function code, (ii) the language used for the function, and (iii) price offered by the cloud service platform for executing the function.

7. The system of claim 1, wherein the aggregator and the metric scheduler are implemented within the one or more computing devices.

8. The system of claim 1, wherein the service parameters received from each of the plurality of cloud service platforms comprise pricing data for each of the plurality of cloud service platforms.

9. The system of claim 8, wherein the gateway is configured to generate a graphical user interface (GUI), the GUI comprising a cost for the application, the cost being generated from the pricing data.

10. A method for scheduling execution of function code between a plurality of cloud service platforms, the method comprising:

receiving, with a gateway, incoming function code from an application that is registered with the gateway;

receiving, with a cloud service platform data aggregator, service parameters from each of the plurality of cloud service platforms; and

routing, with the gateway, the incoming function code to one of the plurality of cloud service platforms for execution based on the service parameters provided by each of the plurality of cloud service platforms,

wherein a set of connectors are selected for the application in response to the application being registered with the gateway during a registration process, each connector in the set of connections corresponding to a distinct protocol.

11. The method of claim 10, further comprising:

displaying, with a graphical user interface, at least one of the service parameters.

12. The method of claim 10, further comprising:

triggering, with the gateway, a function call of a function to one of the plurality of cloud service platforms based on the incoming function code.

13. The method of claim 12, wherein the function is called via one of a first calling mechanism and a second calling mechanism, wherein the first calling mechanism is associated with proprietary computing services of a first connector among the set of connectors and the second calling mechanism is associated with open source computing services of a second connector among the set of connectors.

14. The method of claim 10, further comprising:

determining for each of the plurality of cloud service platforms, with the gateway, (i) resources and time needed to execute a function associated with the function code, (ii) the language used for the function, and (iii) price offered by the cloud service platform for executing the function.

15. The method of claim 10, wherein the gateway and the aggregator are implemented with one or more computing devices.

16. The method of claim 10, wherein the service parameters received from each of the plurality of cloud service platforms comprise pricing data for each of the plurality of cloud service platforms.

17. The method of claim 16, further comprising generating a graphical user interface (GUI), the GUI comprising a cost for the application, the cost being generated from the pricing data.

18. A system for scheduling execution of function code between a plurality of cloud service platforms, the system comprising:

a first computing device, wherein the first computing device is configured to receive incoming function code from an application; and

a second computing device, wherein the second computing device is configured to receive service parameters from each of the plurality of cloud service platforms,

wherein the first computing device is configured to provide the incoming function code to one of the plurality of cloud service platforms for execution based on the service parameters provided by each of the plurality of cloud service platforms,

wherein a set of connectors are selected for the application in response to the application being registered with the first computing device during a registration process, each connector in the set of connections corresponding to a distinct protocol.