

What is claimed is:

1. A system for scheduling execution of function code between a plurality of cloud service platforms, the system comprising:
 - a gateway, wherein the gateway includes at least one connector configured to receive incoming function code;
 - 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.
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 3, wherein the at least one connector is defined for an application providing the incoming data during a registration of the application to the gateway.
6. The system of claim 1, wherein each of the at least one connector is associated with a distinct protocol.
7. 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.
8. 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.
9. The system of claim 1, wherein the gateway, the aggregator, and the metric scheduler are implemented with one or more computing devices.

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;
 - 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.
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 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 and the second calling mechanism is associated with open source computing services.
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. 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; 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.