CLAIMS

1. A method for computing a network edge, comprising:

receiving, by an edge data node, a service request; and

routing, by the edge data node and according to a virtual IP address and port information obtained in advance in the service request, the service request to one or more containers corresponding to a service, to be processed by the one or more containers.

2. The method according to claim 1, wherein the routing, according to a virtual IP address and port information in the service request, the service request to one or more containers corresponding to a service comprises:

querying a mapping relationship among public ports, virtual IP addresses, and port information corresponding to services of the edge data node, to search for a public port corresponding to the virtual IP address and port information in the service request, and sending the service request to the public port located; and

after receiving the service request, routing, by the public port and according to a load balancing mechanism, the service request to the one or more containers corresponding to the service.

3. The method according to claim 1, further comprising:

transmitting the virtual IP address and port information to an initiator of the service request in advance; or

transmitting the virtual IP address and port information to a third party in advance, wherein the third party comprises at least a third party trusted by the initiator of the service request.

4. The method according to claim 1, wherein

the edge data node belongs to an edge data node cluster corresponding to the virtual IP address and port information; or

the edge data node belongs to an edge data node cluster selected based on a load balancing strategy and corresponding to the virtual IP address and port information.

5. The method according to any one of claims 1-4, wherein the service request comprises a TCP request and/or a UDP request.

6. The method according to claim 5, before the receiving, by an edge data node, a service request, the method further comprises:

receiving, by the edge data node, a service create request, the service create request comprising at least container configuration information of the service to be created; and

creating, by the edge data node and according to the container configuration information, containers corresponding to the service on servers in the edge data node.

7. The method according to claim 6, wherein the container configuration information comprises at least any one or more of:

the number of containers, container-use resource information, or a container image address.

8. The method according to claim 7, wherein the creating, by the edge data node and according to the container configuration information, containers corresponding to the service on servers in the edge data node comprises:

selecting, by the edge data node and according to the container-use resource information, a plurality of servers whose available resources meet the container-use resource information, and creating the containers corresponding to the service on the servers selected according to the container image address.

9. The method according to claim 6, further comprising:

configuring, by the edge data node, a corresponding public port for each of the containers created respectively by using a public port pre-configured and corresponding to the virtual IP address and port information of the service;

wherein the virtual IP address and port information of the service pre-configured and the public port corresponding to the virtual IP address and port information are issued by a management center to the edge data node, or autonomously configured by the edge data node.

10. An apparatus for computing a network edge, comprising:

a first module, configured to receive a service request; and

a second module, configured to route, according to a virtual IP address and port information obtained in advance in the service request, the service request to one or more containers corresponding to a service, to be processed by the one or more containers.

11. The apparatus according to claim 10, wherein the second module, configured to route, according to a virtual IP address and port information in the service request, the service request to one or more containers corresponding to a service comprises:

querying, according to the virtual IP address and port information in the service request, a

mapping relationship among public ports, virtual IP addresses, and port information corresponding to services of the apparatus, to search for a public port corresponding to the virtual IP address and port information in the service request, and sending the service request to the public port located; and

after receiving the service request at the public port of any server in the apparatus, routing, according to a cluster load balancing mechanism, the service request to the one or more containers corresponding to the service.

12. The apparatus according to claim 10, further comprising:

a third module, configured to receive a service create request, the service create request comprising at least container configuration information of the service to be created, and create, according to the container configuration information, containers corresponding to the service on servers in the apparatus.

13. The apparatus according to claim 12, wherein the container configuration information comprises at least any one or more of:

the number of containers, container-use resource information, or a container image address.

14. The apparatus according to claim 13, wherein the third module, configured to create, according to the container configuration information, containers corresponding to the service on servers in the apparatus comprises:

selecting, according to the container-use resource information, a plurality of servers whose available resources meet the container-use resource information, and creating the containers corresponding to the service on the servers selected according to the container image address.

15. The apparatus according to claim 12 or 13, wherein,

the third module is further configured to configure a corresponding public port for each of the containers created respectively by using a public port pre-configured and corresponding to the virtual IP address and port information of the service;

wherein the public port pre-configured and corresponding to the virtual IP address and port information of the service is issued by a management center to the apparatus, or autonomously configured by the apparatus.

16. The apparatus according to any one of claims 10-14, wherein,

the service request comprises a TCP request and/or a UDP request.

17. A computer-readable storage medium comprising a computer program stored therein, when executed, the computer program implements the method according to any one of claims 1-9.

18. A computer device, comprising a processor, a memory, and a computer program stored in the memory, when executing the computer program, the processor implements the method according to any one of claims 1-9.