

Claims

1. A service unit switching method comprising:
determining a target service unit; and
triggering the target service unit to publish first routing information according to configuration information of a first service unit for a first load balancing task, to replace the first service unit to provide a traffic distribution service for the first load balancing task.
2. The method according to claim 1, wherein the configuration information includes a virtual service address configured by the first service unit for the first load balancing task, and
triggering the target service unit to publish the first routing information according to the configuration information of the first service unit for the first load balancing task includes:
triggering the target service unit to publish the first routing information according to the virtual service address, to enable a service request for the virtual service address to be addressed to the target service unit.
3. The method according to claim 2, wherein triggering the target service unit to publish the first routing information according to the virtual service address comprises:
obtaining second routing information published by the first service unit for the virtual service address; and
sending the second routing information to the target service unit to trigger the target service unit to publish the first routing information with a higher priority than the second routing information according to the virtual service address and the second routing information.
4. The method according to any one of claims 1 to 3, further comprising:
sending a session sending instruction to the first service unit to trigger the first service unit to send recorded session information about the first load balancing task to the target service unit to allow the target service unit to reference with when distributing service requests related to established connections, wherein the recorded session information includes connection information of the established connections.

5. The method according to claim 4, wherein the target service unit comprises a cluster composed of a plurality of second service nodes;

sending the session sending instruction to the first service unit to trigger the first service unit to send the recorded session information about the first load balancing task to the target service unit includes:

sending a session sending instruction to the first service unit to trigger the first service unit to send the recorded session information about the first load balancing task to a target service node among the plurality of second service nodes, the target service node synchronizing the recorded session information with other second service nodes among the plurality of second service nodes.

6. The method according to any one of claims 1 to 3, wherein triggering the target service unit to publish the first routing information according to the configuration information of the first service unit for the first load balancing task comprises:

obtaining the configuration information of the first service unit for the first load balancing task; and

sending the configuration information to the target service unit, to enable the target service unit to complete configuration according to the configuration information, and publishes the first routing information according to the configuration information.

7. The method according to claim 6, wherein sending the configuration information to the target service unit comprises:

sending the configuration information to a target management and control unit corresponding to the target service unit, to allow the target management and control unit to forward the configuration information to the target service unit.

8. The method according to any one of claims 1 to 3, further comprising:
determining the first service unit, the first load balancing task, and the target service unit according to information to be migrated, wherein:

the information to be migrated is determined according to detected operating conditions of multiple service units, the multiple service units including the first service unit and the target service unit; and

the information to be migrated includes a virtual service address configured by the first service unit for the first load balancing task and a service address of the target service unit.

9. The method according to claim 8, further comprising:

receiving the information to be migrated that is sent by a global dispatching unit and determined according to the detected operating conditions of the multiple service units.

10. The method according to any one of claims 1 to 3, further comprising:

triggering the first service unit to cancel the second routing information that has been published for the first load balancing task after receiving a publishing notification about the first routing information.

11. The method according to any one of claims 1 to 3, further comprising:

triggering the first service unit to delete configuration related to the first load balancing task after receiving a publishing notification about the first routing information.

12. The method according to any one of claims 1 to 3, further comprising:

receiving detection information detected by the target service unit for the first load balancing task;

determining whether the target service unit satisfies a takeover condition according to the detection information; and

performing the step of triggering the target service unit to publish the first routing information according to the configuration information of the first service unit for the first load balancing task when the target service unit satisfies the takeover condition.

13. The method according to claim 12, wherein the detection information includes: first health status information obtained by the target service unit by detecting multiple back-end servers, wherein the multiple back-end servers are used to process service requests related to the first load balancing task; and

determining whether the target service unit satisfies the takeover condition according to the detection information includes:

determining whether the target service unit satisfies the takeover condition according to the first health status information.

14. The method according to claim 13, wherein:

the target service unit is a cluster composed of a plurality of second service nodes;

the detection information further includes: an amount of synchronization of session information related to the first load balancing task among the plurality of second service nodes; and

determining whether the target service unit satisfies the takeover condition according to the first health status information includes:

determining whether the target service unit satisfies the takeover condition according to the first health status information and the amount of synchronization, the session information being recorded by the first service unit when providing the traffic distribution service for the first load balancing task.

15. The method according to claim 14, wherein determining whether the target service unit satisfies the takeover condition according to the first health status information and the amount of synchronization comprises:

obtaining second health status information obtained by the first service unit by detecting of the multiple back-end servers;

determining whether a difference between the first health state detection information and the second health state detection information satisfies a first preset condition;

determining a proportion of the amount of synchronization in a total amount of session information; and

determining that the target service unit satisfies the takeover condition when the difference satisfies the first preset condition and the proportion is greater than a preset proportion.

16. A service unit switching method comprising:

obtaining configuration information of a first service unit for a first load balancing task; and

publishing first routing information according to configuration information, to replace the first service unit to provide a traffic distribution service for the first load balancing task.

17. The method according to claim 16, wherein publishing the first routing information according to the configuration information comprises:

obtaining second routing information that the first service unit has published for the first load balancing task; and

publishing the first routing information with a higher priority than the second routing information according to the configuration information and the second routing information.

18. The method according to claim 16 or 17, further comprising:

receiving session information about the first load balancing task sent by the first service unit; and

synchronizing the session information with other second service nodes in a cluster, each second service node in the cluster being used to provide traffic distribution services for the first load balancing task.

19. The method according to claim 18, further comprising:

sending detection information detected for the first load balancing task to a target management and control unit, to enable the target management and control unit to determine whether a takeover condition is satisfied according to the detection information; and

the step of publishing the first routing information according to the configuration information after receiving a takeover instruction sent by the target management and control unit upon determining that the takeover condition is satisfied performing.

~~20. A service unit switching system comprising: a first service unit, a target service unit, and a first management and control unit respectively connected to the first service unit and the target service unit, wherein:~~

~~the first management and control unit is configured to determine the target service unit, and trigger the target service unit to publish first routing information according to~~

~~configuration information of the first service unit for a first load balancing task;~~

~~the target service unit is configured to publish the first routing information according to the configuration information upon being triggered by the first management and control unit, so as to replace the first service unit to provide a traffic distribution service for the first load balancing task.~~

~~21. A service unit switching system comprising: a first service unit, a target service unit, a first management and control unit connected to the first service unit, and a target management and control unit connected to the target service unit, wherein:~~

~~the first management and control unit is configured to obtain configuration information of the first service unit for a first load balancing task, and send the configuration information to the target management and control unit;~~

~~the target management and control unit is configured to forward the configuration information to the target service unit, and trigger the target service unit to publish first routing information according to the configuration information; and~~

~~the target service unit is configured to publish the first routing information according to the configuration information upon being triggered by the target management and control unit, so as to replace the first service unit to provide a traffic distribution service for the first load balancing task.~~

~~22. The system according to claim 21, further comprising: a global dispatching unit respectively connected to a plurality of management and control units; the plurality of management and control units including the first management and control unit and the target management and control unit, wherein:~~

~~the global dispatching unit is configured to send information to be migrated to the first management and control unit, to enable the first management and control unit to determine the first service unit and the first load balancing task, and the target load unit according to the information to be migrated;~~

~~the information to be migrated is determined by the global dispatching unit according to operating conditions of multiple service units, the multiple service units including the first service unit and the target service unit; and~~

~~the information to be migrated includes a virtual service address configured by the~~

~~first service unit for the first load balancing task and a service address of the target service unit.~~

~~23.——An electronic device comprising: a memory and a processor, wherein:
the memory is used to store a program;
the processor is coupled with the memory, and is configured to execute the program
stored in the memory for:~~

~~determining a target service unit; and~~

~~triggering the target service unit to publish first routing information
according to configuration information of a first service unit for a first load balancing
task, so as to replace the first service unit to provide a traffic distribution service for
the first load balancing task.~~

~~24.——An electronic device comprising: a memory and a processor, wherein:
the memory is used to store a program;
the processor is coupled with the memory, and is configured to execute the program
stored in the memory for:~~

~~obtaining configuration information of a first service unit for a first load
balancing task; and~~

~~publishing first routing information according to the configuration
information, so as to replace the first service unit to provide a traffic distribution
service for the first load balancing task.~~

2520. A service unit switching method comprising:
determining a target service unit; and
triggering a target service unit to publish first routing information according to
configuration information of a first service unit for a first task, so as to replace the first
service unit to provide services for the first task.

~~26.——An electronic device comprising: a memory and a processor, wherein:
the memory is used to store a program;
the processor is coupled with the memory, and is configured to execute the program~~

~~stored in the memory for:~~

~~determining a target service unit; and~~

~~triggering a target service unit to publish first routing information according to configuration information of a first service unit for a first task, so as to replace the first service unit to provide services for the first task.~~

~~2721.~~ A service unit switching method comprising:

~~obtaining configuration information of a first service unit for a first task; and~~

~~publishing first routing information according to the configuration information, so as to replace the first service unit to provide services for the first task.~~

~~28. An electronic device comprising: a memory and a processor, wherein:~~

~~the memory is used to store a program;~~

~~the processor is coupled with the memory, and is configured to execute the program~~

~~stored in the memory for:~~

~~obtaining configuration information of a first service unit for a first task; and~~

~~publishing first routing information according to the configuration information, so as to replace the first service unit to provide services for the first task.~~