CLAIMS

1. A method for managing a session state, executed by a processing server, comprising:

receiving a service processing result corresponding to a session service forwarded by a proxy server, wherein the service processing result is forwarded by the proxy server based on a session identifier in the service processing result to the processing server, the processing server corresponding to the service processing result, the session identifier comprising mapping information between the service processing result and the processing server corresponding to the service processing result, wherein the service processing result is generated by a service server by processing a session service from a first client to a second client and reported by the service server to the proxy server; the processing server corresponding to the service processing result is pre-selected by the proxy server from a plurality of processing servers, and the session identifier is generated based on the mapping information between the service processing result and the processing server corresponding to the service processing result, returned to the service server, and added to service processing results in subsequent uploads of the service processing results by the service server; and the first client and the second client are in a same region or different regions, and in a case that the first client and the second client are in different regions, the session identifier further comprises region information; and

determining session state information of the session service based on the service processing result, and updating the session state information to a local cache so as to synchronize the session state information to a cache of an associated regional data center through the local cache.

2. The method according to claim 1, wherein, upon determining the session state information of the session service based on the service processing result, the method further comprises:

updating the session state information to a pre-constructed message middleware, wherein the message middleware is configured to be used for a service server to query the session state information, the service server being configured to process the session service and generate the service processing result, and report the service processing result to the proxy server.

3. The method according to claim 1, wherein the service processing result is a session creation result; and

determining the session state information of the session service based on the service processing result, and updating the session state information to the local cache, comprises:

performing an initialization operation of the session service based on the session creation result, generating first state information, and determining the first state information as the session state information and updating the session state information to the local cache.

4. The method according to claim 3, wherein performing the initialization operation of the session service based on the session creation result further comprises:

initializing a session timeout period of the session service based on the session creation result, and storing the session timeout period in the local cache, wherein the session timeout period is configured to detect a session connection state of a client.

5. The method according to claim 4, wherein, upon performing the initialization operation of the session service based on the session creation result, the method further comprises:

in a case that a client heartbeat request forwarded by the proxy server is received within the session timeout period, updating the session timeout period based on current time; and

in a case that the client heartbeat request forwarded by the proxy server is not received within the session timeout period, determining that a client corresponding to the session service is in an offline state, updating the session state information in the local cache based on the offline state, and deleting the session timeout period.

6. The method according to claim 4, wherein the service processing result is a session end result; and

determining the session state information of the session service based on the service processing result, and updating the session state information to the local cache, comprises:

generating second state information based on the session end result, and determining the second state information as the session state information and updating the session state information to the local cache.

7. The method according to claim 6, wherein, prior to determining the second state information as the session state information and updating the session state information to the local cache, the method further comprises:

acquiring a first distributed lock corresponding to the session end result based on the session identifier, wherein the first distributed lock is configured to prohibit initiating a session end request corresponding to the session service again; and

upon determining the second state information as the session state information and updating the session state information to the local cache, the method further comprises:

deleting the session timeout period.

8. The method according to claim 1, wherein the service processing result is a streaming media connection result; and

determining the session state information of the session service based on the service processing result, and updating the session state information to the local cache, comprises:

generating third state information based on the streaming media connection result, and determining the third state information as the session state information and updating the session state information to the local cache.

9. The method according to claim 8, wherein, prior to determining the third state information as the session state information and updating the session state information to the local cache, the method further comprises:

acquiring a second distributed lock corresponding to the streaming media connection result based on the session identifier, wherein the second distributed lock is configured to prohibit initiating a streaming media connection request corresponding to the session service again; and

upon determining the third state information as the session state information, the method further comprises:

initializing a streaming media connection timeout period, wherein the streaming media connection timeout period is configured to detect a streaming media connection state of a client.

10. A system for managing a session state, comprising: a service server, a proxy server, a processing server, and a local cache, wherein

the service server is configured to process a session service from a first client to a second client, generate a service processing result corresponding to the session service, and report the service processing result to the proxy server;

the proxy server is configured to forward the service processing result to the processing server based on a session identifier in the service processing result, the processing server corresponding to the service processing result, wherein the session identifier comprises mapping information between the service processing result and the processing server corresponding to the service processing result, wherein the processing server corresponding to the service processing result is pre-selected by the proxy server from a plurality of processing servers, and the session identifier is generated based on the mapping information between the service processing result and the processing server corresponding to the service processing result, returned to the service server, and added to service processing results in subsequent

uploads of the service processing results by the service server; and the first client and the second client are in a same region or different regions, and in a case that the first client and the second client are in different regions, the session identifier further comprises region information;

the processing server is configured to receive the service processing result corresponding to the session service forwarded by the proxy server, determine session state information of the session service based on the service processing result, and update the session state information to the local cache; and

the local cache is configured to store and synchronize the session state information to a cache of an associated regional data center.

11. A processing server, comprising:

a receiving module, configured to receive a service processing result corresponding to a session service forwarded by a proxy server, wherein the service processing result is forwarded by the proxy server based on a session identifier in the service processing result to the processing server, the processing server corresponding to the service processing result, the session identifier comprising mapping information between the service processing result and the processing server corresponding to the service processing result, wherein the service processing result is generated by a service server by processing a session service from a first client to a second client and reported by the service server to the proxy server; the processing server corresponding to the service processing result is pre-selected by the proxy server from a plurality of processing servers, and the session identifier is generated based on the mapping information between the service processing result and the processing server corresponding to the service processing result, returned to the service server, and added to service processing results in subsequent uploads of the service processing results by the service server; and the first client and the second client are in a same region or different regions, and in a case that the first client and the second client are in different regions, the session identifier further comprises region information; and

an updating module, configured to determine session state information of the session service based on the service processing result, and update the session state information to a local cache so as to synchronize the session state information to a cache of an associated regional data center through the local cache.

12. A device for managing a session state, comprising:

a memory and one or more processors,

wherein the memory is configured to store one or more programs; wherein

the one or more programs, when run by the one or more processors, cause the one or more processors to perform the method for managing the session state as defined in any one of claims 1 to 9.

13. A storage medium comprising one or more computer-executable instructions, wherein the one or more computer-executable instructions, when executed by a computer processor, cause the computer processor to perform the method for managing the session state as defined in any one of claims 1 to 9.