CLAIMS

1. A method for scheduling an access request, comprising:

determining a city and a city operator corresponding to an access source IP segment;

selecting at least one preferred node of the access source IP segment from cloud delivery nodes of the city operator;

determining a mapping relationship between the access source IP segment and an IP of the preferred node;

issuing the mapping relationship to scheduling agent modules of the cloud delivery nodes in a network; and

after a current cloud delivery node receives a user's access request, scheduling, by the scheduling agent module of the current cloud delivery node, the user's access request according to the mapping relationship;

wherein, the scheduling, by the scheduling agent module of the current cloud delivery node, the user's access request according to the mapping relationship comprises: determining an access source IP segment to which a source IP in the user's access request belongs, querying for the IP of the preferred node corresponding to the access source IP segment according to the mapping relationship, judging whether the current cloud delivery node is the preferred node, returning an access response in response to the current cloud delivery node being the preferred node, and returning the IP of the preferred node to indicate a redirection operation in response to the current cloud delivery node being not the preferred node.

2. The method for scheduling an access request according to claim 1, wherein,

the selecting at least one preferred node of the access source IP segment from cloud delivery nodes of the city operator comprises:

obtaining historical network transmission state parameters of the cloud delivery nodes of the city operator in processing data of the access source IP segment, and selecting the preferred node according to the historical network

transmission state parameters.

3. The method for scheduling an access request according to claim 2, wherein,

the selecting at least one preferred node of the access source IP segment from cloud delivery nodes of the city operator further comprises: obtaining real-time loads of the cloud delivery nodes of the city operator; and

the selecting the preferred node according to the historical network transmission state parameters comprises: selecting a preferred node according to the historical network transmission state parameters and the real-time loads.

4. The method for scheduling an access request according to claim 1, further comprising:

detecting the cloud delivery nodes in real time; and

in response to detecting that the cloud delivery nodes comprise a faulty cloud delivery node and the faulty cloud delivery node is one of a plurality of preferred nodes in the mapping relationship, deleting the faulty cloud delivery node from the mapping relationship to generate a modified mapping relationship, and issuing the modified mapping relationship to the scheduling agent modules of the cloud delivery nodes in the network.

5. An apparatus for scheduling an access request, comprising:

a first determination module, configured to determine a city and a city operator corresponding to an access source IP segment;

a first selection module, configured to select at least one preferred node of the access source IP segment from cloud delivery nodes of the city operator;

a second determination module, configured to determine a mapping relationship between the access source IP segment and an IP of the preferred node;

a transmission module, configured to issue the mapping relationship to scheduling agent modules of the cloud delivery nodes in a network; and

a receiving module and a scheduling agent module located in each of the

cloud delivery nodes; wherein,

the receiving module is configured to receive a user's access request; and

the scheduling agent module is configured to schedule the user's access request according to the mapping relationship;

wherein the scheduling agent module comprises:

a third determination module, configured to determine an access source IP segment to which a source IP in the user's access request belongs;

a query module, configured to query for the IP of the preferred node corresponding to the access source IP segment according to the mapping relationship;

a judgment module, configured to judge whether a current cloud delivery node is the preferred node; and

a feedback module, configured to return an access response in response to the current cloud delivery node being the preferred node, and return the IP of the preferred node to indicate a redirection operation in response to the current cloud delivery node being not the preferred node.

6. The apparatus for scheduling an access request according to claim 5, wherein,

the first selection module comprises a first obtaining module and a second selection module;

the first obtaining module is configured to obtain historical network transmission state parameters of the cloud delivery nodes of the city operator in processing data of the access source IP segment; and

the second selection module is configured to select the preferred node according to the historical network transmission state parameters.

7. The apparatus for scheduling an access request according to claim 6, wherein,

the first selection module further comprises a second obtaining module;

the second obtaining module is configured to obtain real-time loads of the cloud delivery nodes of the city operator; and

the second selection module is further configured to select the preferred node according to the historical network transmission state parameters and the real-time loads.

8. The apparatus for scheduling an access request according to claim 5, further comprising:

a detection module, configured to detect the cloud delivery nodes in real time;

a modification module, configured to: when the detection module detects that the cloud delivery nodes comprise a faulty cloud delivery node and the faulty cloud delivery node is one of a plurality of preferred nodes in the mapping relationship, delete the faulty cloud delivery node from the mapping relationship to generate a modified mapping relationship; and

a transmission module, configured to issue the modified mapping relationship to the scheduling agent modules of the cloud delivery nodes in the network.

9. A computer-readable storage medium having a computer program stored thereon, wherein the computer program, when executed, implements steps of the method according to any one of claims 1 to 4.

10. A computer device, comprising a processor, a memory, and a computer program stored on the memory, wherein the computer program, when executed by the processor, implements steps of the method according to any one of claims 1 to 4.