

What is claimed is:

1. A method for precisely dispatching a request in a content delivery network (CDN), comprising:

a domain name system (DNS) authorized by a CDN of a target website receiving, from a local DNS of a terminal in which a client is located, an IP address of the local DNS and a domain name of the target website of service content requested by the client;

finding, in a shared dispatching database, an address of an optimal CDN node server of the target website that is suitable for providing service to the client based on the IP address of the local DNS and the domain name of the target website, returning the found address to the client, wherein an IP address segment, the domain name of the target website and an address of at least one CDN node server of the target website are correspondingly stored in the shared dispatching database; and

after the optimal CDN node server receives the request for obtaining the service content of the target website from the client and determines that an IP address segment suitable for providing services thereof contains an IP address of the client, obtaining the service content of the target website requested by the client from service content stored in the optimal CDN node server and returning the service content of the target website to the client.

2. The method of claim 1, further comprising:

if the optimal CDN node server determines that the IP address segment suitable for providing the services thereof does not contain the IP address of the client, searching, in the shared dispatching database, by the optimal CDN node server, an address of another CDN node server of the target website that is suitable for providing the service to the client based on the IP address of the client and the domain name of the target website of the service content requested by the client, and returning an IP address of the other CDN node server of the target website to the client; and

after the other CDN node server receives the request for obtaining the service content of the target website from the client and determines that an IP address segment suitable for providing service thereof contains the IP address of the client, obtaining, from service content stored in the other CDN node server, the service content of the target website requested by the client, and returning the service content of the target website to the client.

4. The method of claim 1, further comprising:

if the optimal CDN node server determines that the IP address segment suitable for providing the service thereof does not contain the IP address of the client, notifying the client such that the client searches, in the shared dispatching database, an address of another CDN node server of the target website suitable for providing the service to the client based on the IP address of the client and the domain name of the target website of the service content requested by the client; and

after the other CDN node server receives the request for obtaining the service content of the target website from the client and determines that an IP addresses segment suitable for providing service thereof contains the IP address of the client, obtaining, from service content stored in the other CDN node server, the service content of the target website requested by the client, and returning the service content of the target website to the client.

3. The method of claim 2, wherein obtaining, from the service content stored in the other CDN node server, the service content of the target website requested by the client and returning the service content of the target website to the client further comprises:

if the service content stored in the other CDN node server does not contain the service content requested by the client, the other CDN node server requesting to obtain the service content requested by the client from the target website, storing and forwarding the requested service content to the client.

5. The method of claim 1, wherein obtaining, from the service content stored in the optimal CDN node server, the service content of the target website requested by the client, and returning the service content of the target website to the client further comprises:

if the service content stored in the optimal CDN node server does not contain the service content requested by the client, the optimal CDN node server requesting to obtain the service content requested by the client from the target website, storing and forwarding the requested service content to the client.

6. The method of claim 1, wherein prior to the DNS authorized by the CDN of the target website receiving, from the local DNS of the terminal in which the client is located, the IP address of the local DNS and the domain name of the target website of the service content requested by the client, the method further comprises:

receiving and resolving, by the DNS authorized by the CDN of the target website, the domain name of the target website of the service content that is requested by the client from the local DNS, and returning an alias of the target website that is obtained after the resolving to the client, the alias pointing to an address of the DNS authorized by the CDN of the target website.

7. The method of claim 1, wherein the optimal CDN node server comprises a CDN node server providing the fastest download speed for the client with a content download speed being used as a criterion for determining an optimum .

8. The method of claim 1, wherein the IP address of the client is different from the IP address of the local DNS.

9. A system for precisely dispatching a request in a content delivery network (CDN), the system coupled to the client, the system comprising :

one or more processors;

memory;

a target website CDN authorizing domain name server executable by the one or more processors;

a shared dispatching database stored in the memory; and an optimal CDN node server executable by the one or more processors, wherein:

the target website CDN authorizing domain name server is used for receiving, from a local DNS of a terminal in which a client is located, an IP address of the local DNS and a domain name of the target website of service content requested by the client, sending the IP address and the domain name to the shared dispatching database, and returning an address of an optimal CDN node server, which is returned by the shared dispatching database, to the client;

the shared dispatching database is used for providing the address of the optimal CDN node server of the target website that is suitable for providing service to the client based on the IP address of the local DNS and the domain name of the target website, and returning the address of the optimal CDN node server to the target website CDN authorizing domain name server, wherein an IP address segment, the domain name of the target website and an address of at least one CDN node server of the target website are correspondingly stored in the shared dispatching database; and

the optimal CDN node server is used for, after the optimal CDN node server receives the request for obtaining the service content of the target website from the client and determines that an IP addresses segment suitable for providing service thereof contains an IP address of the client, obtaining the service content of the target website requested by the client from service content stored in the optimal CDN node server and returning the service content of the target website to the client.

10. The system of claim 9, further comprising another CDN node server executable by the one or more processors, wherein:

the optimal CDN node server is further used for, upon determining that the IP address segment suitable for providing the service thereof does not contain the IP address of the client, sending the IP address of the client and the domain name of the target website of the service content requested by the client to the shared dispatching database, and returning an IP address of the other CDN node server of the target website, which is returned from the shared dispatching database, to the client.

the shared dispatching database is further used for providing the address of the other CDN node server of the target website suitable for providing the service to the client based on the IP address of the client and the domain name of the target website of the service content requested by the client from the optimal CDN node server, and returning the IP address of the other CDN node server of the target website to the client; and

the other CDN node server is used for, after receiving the request for obtaining the service content of the target website from the client and determining that an IP address segment suitable for providing the service thereof contains the IP address of the client, obtaining the service content of the target website requested by the client from service content stored in the other CDN node server, and returning the service content of the target website to the client.

12. The system of claim 9, further comprising another CDN node server executable by the one or more processors, wherein:

the optimal CDN node server is further used for notifying the client when the optimal CDN node server determines that the IP addresses segment suitable for providing the service thereof does not contain the IP address of the client;

the shared dispatching database is further used for providing an address of the other CDN node server of the target website that is suitable for providing the service to the client based on the IP address of the client and the domain name of the target website of the service content requested by the client, and returning the address of the other CDN node server to the client; and

the other CDN node server is used for obtaining the service content of the target website requested by the client from service content stored in the other CDN node server and returning the service content of the target website to the client after the other CDN node server receives the request for obtaining the service content of the target website from the client and determines that an IP address segment suitable for providing service thereof contains the IP address of the client.

11. The system of claim 10, further comprising a target website server executable by the one or more processors, wherein:

the other CDN node server is further used for requesting to obtain the service content of the target website requested by the client from the target website server, storing and forwarding the service content of the target website requested by the client to the client when the service content stored in the other CDN node server does not contain the service content requested by the client; and

the target website server is used for storing and providing the service content corresponding to the target website.

13. The system of claim 9, further comprising a target website server executable by the one or more processors, wherein:

the optimal CDN node server is further used for requesting to obtain the service content of the target website requested by the client from the target website server, storing and forwarding the service content of the target website requested by the client to the client when the service content stored in the optimal CDN node server does not contain the service content requested by the client; and

the target website server is used for storing and providing the service content corresponding to the target website.

14. The system of claim 9, further comprising:

a target website authorizing domain name server executable by the one or more processors that is used for receiving the domain name of the target website of the service content requested by the client from the local DNS, performing resolution, and returning an alias of the target website that is obtained after the resolution to the client, the alias pointing to an address of the DNS authorized by the CDN of the target website.

15. 14. One or more computer-readable media storing executable instructions that, when executed by one or more processors, cause the one or more processors to perform acts comprising:

a domain name system (DNS) authorized by a CDN of a target website receiving, from a local DNS of a terminal in which a client is located, an IP address of the local DNS and a domain name of the target website of service content requested by the client;

finding, in a shared dispatching database, an address of an optimal CDN node server of the target website that is suitable for providing service to the client based on the IP address of the local DNS and the domain name of the target website, returning the found address to the client, wherein an IP address segment, the domain name of the target website and an address of at least one CDN node server of the target website are correspondingly stored in the shared dispatching database; and

after the optimal CDN node server receives the request for obtaining the service content of the target website from the client and determines that an IP address segment suitable for providing services thereof contains an IP address of the client, obtaining the service content of the target website requested by the client from service content stored in the optimal CDN node server and returning the service content of the target website to the client.

16. The one or more computer-readable media of claim 15, the acts further comprising:

if the optimal CDN node server determines that the IP address segment suitable for providing the services thereof does not contain the IP address of the client, searching, in the shared dispatching database, by the optimal CDN node server, an address of another CDN node server of the target website that is suitable for providing the service to the client based on the IP address of the client and the domain name of the target website of the service content requested by the client, and returning an IP address of the other CDN node server of the target website to the client; and

after the other CDN node server receives the request for obtaining the service content of the target website from the client and determines that an IP address segment suitable for providing service thereof contains the IP address of the client, obtaining, from

service content stored in the other CDN node server, the service content of the target website requested by the client, and returning the service content of the target website to the client.

18. The one or more computer-readable media of claim 15, the acts further comprising:

if the optimal CDN node server determines that the IP address segment suitable for providing the service thereof does not contain the IP address of the client, notifying the client such that the client searches, in the shared dispatching database, an address of another CDN node server of the target website suitable for providing the service to the client based on the IP address of the client and the domain name of the target website of the service content requested by the client; and

after the other CDN node server receives the request for obtaining the service content of the target website from the client and determines that an IP addresses segment suitable for providing service thereof contains the IP address of the client, obtaining, from service content stored in the other CDN node server, the service content of the target website requested by the client, and returning the service content of the target website to the client.

17. The one or more computer-readable media of claim 16, wherein obtaining, from the service content stored in the other CDN node server, the service content of the target website requested by the client and returning the service content of the target website to the client further comprises:

if the service content stored in the other CDN node server does not contain the service content requested by the client, the other CDN node server requesting to obtain the service content requested by the client from the target website, storing and forwarding the requested service content to the client.

19. The one or more computer-readable media of claim 15, wherein obtaining, from the service content stored in the optimal CDN node server, the service content of the target website requested by the client, and returning the service content of the target website to the client further comprises:

if the service content stored in the optimal CDN node server does not contain the service content requested by the client, the optimal CDN node server requesting to obtain the service content requested by the client from the target website, storing and forwarding the requested service content to the client.

20. The one or more computer-readable media of claim 15, wherein prior to the DNS authorized by the CDN of the target website receiving, from the local DNS of the terminal in which the client is located, the IP address of the local DNS and the domain name of the target website of the service content requested by the client, the method further comprises:

receiving and resolving, by the DNS authorized by the CDN of the target website, the domain name of the target website of the service content that is requested by the client from the local DNS, and returning an alias of the target website that is obtained after the resolving to the client, the alias pointing to an address of the DNS authorized by the CDN of the target website.