

SUMMARY

[0003a] According to one aspect, there is provided a method for managing DNS queries comprising: determining, at a service provider, whether DNS queries associated with an identifiable domain exceed a threshold number of DNS queries that can be processed by a service provider; determining, at the service provider, whether to filter the one or more DNS queries based on the threshold number of DNS queries; and causing, at the service provider, the selective filtering of at least one of the one or more DNS queries based on the determination, wherein the selective filtering of the at least one or more DNS queries corresponds to the selective filtering of DNS queries based on an assigned network address for the DNS server authoritative for the identified domain and includes causing the filtering of at least one or more DNS queries received at the service provider and directed to one or more assigned network address subdivisions or zones available to the service provider based on access control lists.

[0003b] According to another aspect, there is provided a system for DNS query processing comprising: an interface component for obtaining registration information at a service provider for registering one or more content providers with the service provider, the registration corresponding to hosting at least of portion of request routing functionality associated with one or more resources provided by the content provider; a DNS query processing component operable to: determine whether DNS queries associated with an identifiable domain exceed a threshold number of DNS queries that can be processed by a service provider; determine whether to filter the one or more DNS queries based on the threshold number of DNS queries; and cause the filtering of at least one of the one or more DNS queries based on the determination, wherein the filtering of the at least one or more DNS queries corresponds to the selective filtering of DNS queries based on an assigned network address for the DNS server authoritative for the identified domain and includes causing the filtering of at least one or more DNS queries received at the service provider and directed to one or more assigned network address subdivisions or zones available to the service provider based on access control lists.

BRIEF DESCRIPTION OF THE DRAWINGS

[0004] The foregoing aspects and many of the attendant advantages of this invention will become more readily appreciated as the same become better understood by reference to the following detailed description, when taken in conjunction with the accompanying drawings, wherein:

[0005] FIGURE 1 is a block diagram illustrative of content delivery environment including a number of client computing devices, a content provider, a network storage provider, and a content delivery network service provider;

[0006] FIGURE 2 is a block diagram of the content delivery environment of FIGURE 1 illustrating the registration of a content provider with a network storage provider;

[0007] FIGURE 3 is a block diagram of the content delivery environment of FIGURE 1 illustrating the registration of a content provider with a service provider for providing request routing services on behalf of the content provider;

[0008] FIGURE 4 is a block diagram of the content delivery environment of FIGURE 1 illustrating the processing of request routing requests by a service provider on behalf of the content provider;

[0009] FIGURES 5A and 5B are block diagrams of the content delivery environment of FIGURE 1 illustrating one embodiment of the processing of resource routing requests generated by client computing devices;

[0010] FIGURE 6 is a flow diagram illustrative of a content provider request routing registration processing routine implemented by a service provider; and

[0011] FIGURE 7 is a flow diagram illustrative of a request routing processing routine implemented by a service provider.

DETAILED DESCRIPTION

[0012] Generally described, the present disclosure is directed to managing requesting routing functionality corresponding to resource requests for one or more resources associated with a content provider. Aspects of the disclosure will be described with regard to the management and processing request routing functionality by a service provider, such as a content delivery network (“CDN”) service provider, on behalf of an entity requesting the request routing functionality, such as a content provider. Illustratively, the request routing functionality can correspond to the processing, by computing devices associated with the service provider, such as a DNS server component associated with a specific network address, of domain name service (“DNS”) requests on behalf of a content provider. The service provider DNS server components resolve the received DNS queries by identifying a