

WHAT IS CLAIMED IS:

1. A computer-implemented method for managing DNS queries comprising:
 - obtaining a request for hosting DNS query services for an identifiable domain, wherein the hosting of DNS query services includes providing services responsive to DNS queries;
 - assigning a set of DNS servers for hosting the DNS query services, wherein each DNS server in the set of DNS servers is selected from defined network address zones, wherein the defined network address zones correspond to a division of assignable network addresses for service provider DNS servers, and wherein assigning the set of DNS servers for hosting the DNS query services includes selecting a non-significant portion of each assigned network address from unique values corresponding to a non-overlapping range of potential values; and
 - causing the DNS servers corresponding to the assigned network addresses to be authoritative to respond to DNS queries for the identifiable domain.
2. The method as recited in Claim 1 further comprising determining a number of network address zones.
3. The method as recited in Claim 2, wherein the number of network address zones corresponds to a proportional distribution of available network addresses.
4. The method as recited in Claim 1, wherein assigning the set of DNS servers for hosting the DNS query services includes selecting a network address from each defined network address zone such that the significant portion of the assigned network addresses for the identifiable domain are not matching.
5. The method as recited in Claim 1, wherein causing the DNS servers corresponding to the assigned network addresses to be authoritative to respond to DNS queries for the identifiable domain includes transmitting the assigned network address for each of the set of DNS servers.
6. The method as recited in Claim 1, wherein causing the DNS servers corresponding to the assigned network addresses to be authoritative to respond to DNS queries for the identifiable domain includes transmitting a name associated with the assigned network address for each of the set of DNS servers, the name associated with the assigned network address previously configured with the assigned network addresses.

7. The method as recited in Claim 1, wherein the range of values corresponds to the number of zones.

8. A system for managing DNS queries comprising:

a DNS query processor, at a service provider, couple to a memory and operative to:
obtain a request for hosting DNS query services for an identifiable domain wherein the hosting of DNS query services includes providing services responsive to DNS queries;

assign a set of DNS servers for hosting the DNS query services, wherein each DNS server in the set of DNS servers is selected from defined network address zones, wherein the defined network address zones correspond to a division of assignable network addresses for service provider DNS servers; and wherein assigning the set of DNS servers for hosting the DNS query services includes selecting a non-significant portion of each assigned network address from unique values corresponding to a non-overlapping range of potential values; and

cause the DNS servers corresponding to the assigned network addresses to be authoritative to respond to DNS queries for the identifiable domain.

9. The system as recited in Claim 8, wherein causing the DNS servers corresponding to the assigned network addresses to be authoritative to respond to DNS queries for the identifiable domain includes transmitting the assigned network address for each of the set of DNS servers.

10. The system as recited in Claim 8, wherein causing the DNS servers corresponding to the assigned network addresses to be authoritative to respond to DNS queries for the identifiable domain includes transmitting a name associated with the assigned network address for each of the set of DNS servers, the name associated with the assigned network address previously configured with the assigned network addresses.

11. The system as recited in Claim 8, wherein the DNS query processor is further operative to determine a number of network address zones.

12. The system as recited in Claim 11, wherein the number of network address zones corresponds to a proportional distribution of available network addresses.

13. The system as recited in Claim 8, wherein assigning the set of DNS servers for hosting the DNS query services includes selecting a network address from each defined network

address zone such that the significant portion of the assigned network addresses for the identifiable domain are not matching.

14. The system as recited in Claim 8, wherein the range of values corresponds to the number of zones.

15. A non-transitory, computer-readable storage medium having one or more computer-executable components for managing DNS queries, the one or more computer-executable components comprising computer-executable instructions to:

obtain, by a service provider, a request for hosting DNS query services for an identifiable domain wherein the hosting of DNS query services includes providing services responsive to DNS queries;

assign, by the service provider, a set of DNS servers for hosting the DNS query services, wherein each DNS server in the set of DNS servers is selected from defined network address zones, wherein the defined network address zones correspond to a division of assignable network addresses for service provider DNS servers; and wherein assigning the set of DNS servers for hosting the DNS query services includes selecting a non-significant portion of each assigned network address from unique values corresponding to a non-overlapping range of potential values; and

cause, by the service provider, the DNS servers corresponding to the assigned network addresses to be authoritative to respond to DNS queries for the identifiable domain.

16. The computer-readable storage medium as recited in Claim 15, wherein the one or more computer-executable components further comprises computer-executable instructions to determine a number of network address zones.

17. The computer-readable storage medium as recited in Claim 16, wherein the number of network address zones corresponds to a proportional distribution of available network addresses.

18. The computer-readable storage medium as recited in Claim 15, wherein assigning a set of DNS servers for hosting the DNS query services includes selecting a network address from each defined network address zone such that the significant portion of the assigned network addresses for the identifiable domain are not matching.

WHAT IS CLAIMED IS:

1. 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 assigned network addresses for the DNS server authoritative for the identified domain.
2. The method as recited in Claim 1, wherein causing the filtering of at least one of the one or more DNS queries based on the determination includes causing the filtering of at least one or more DNS queries based on access control lists.
3. The method as recited in Claim 1, wherein causing the filtering of at least one of the one or more DNS queries based on the determination includes transmitting a request to filter one or more DNS queries for domains in which service provider DNS servers are authoritative.
4. The method as recited in Claim 1, wherein determining whether to filter the one or more DNS queries based on the associated set of DNS queries includes determining whether to filter based on a percentage of DNS queries allowed to be processed.
5. The method as recited in Claim 1, wherein the range of available service provider network addresses corresponds to a plurality of network address zones such that each network address zone is defined according to a division of available network addresses for service provider DNS server components.
6. The method as recited in Claim 1 further comprising obtaining, at the service provider, at least a portion of the one or more DNS queries associated with the identifiable domain.
7. The method as recited in Claim 1 further comprising:
 - determining, at the service provider, whether DNS queries associated with a different identifiable domain exceed a threshold number of DNS queries that can be processed by a service provider; and

determining, by the service provider, not to filter the one or more DNS queries associated with a different identifiable domain, wherein the determination corresponds to a percentage of DNS queries allowed to be processed.

8. The method as recited in Claim 1, wherein causing the filtering of at least one of the one or more DNS queries based on the determination includes causing at least one of the one or more DNS queries to be answered by an alternative set of DNS servers.

9. 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 a 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.

10. The system as recited in Claim 9 further comprising a network point of presence associated with the service provider, wherein the network point of presence includes a DNS server component that receives a DNS query from client computing devices, wherein the DNS server in the first network point of presence is operable to filter DNS queries based on access control lists.

11. The system as recited in Claim 9, wherein the DNS query processing component selectively filters the DNS queries causing at least one of the one or more DNS queries to be answered by an alternative set of DNS servers.

12. The system as recited in Claim 11, wherein the DNS query processing component causes at least one of the one or more DNS queries to be answered by an alternative set of DNS servers by forwarding the at least one of the one or more DNS queries to the alternative set of DNS servers.

13. The system as recited in Claim 9, wherein the DNS query processing component determines whether to filter the one or more DNS queries based on the associated set of DNS queries based on a percentage of DNS queries allowed to be processed.

14. The system as recited in Claim 9, wherein the range of available service provider network addresses corresponds to a plurality of network address zone such that each network address zone is defined according to a division of available network addresses for service provider DNS server components.

15. The system as recited in Claim 9, wherein the DNS query processing component is further operable to:

- obtain one or more additional DNS queries, the additional DNS queries corresponding to the identifiable domain, wherein the DNS server component corresponds to a different assigned network from a range of available service provider network addresses;

- associate the one or more DNS queries with the identified set of DNS queries exceeding a threshold number of DNS queries that can be processed by a service provider; and

- determine not to filter the one or more DNS queries.