TECHNIQUES FOR ACCESSING LOGICAL NETWORKS VIA A PROGRAMMATIC SERVICE CALL

[0001] This application claims priority to co-pending U.S. non-provisional application entitled "TECHNIQUES FOR ACCESSING LOGICAL NETWORKS VIA A PROGRAMMATIC SERVICE CALL," assigned Serial Number 13/252,604 and filed October 4, 2011, the entirety of which is hereby incorporated by reference herein.

BACKGROUND

[0002] *People use computing devices to communicate with other computing devices* and with each other. Sometimes people are dispersed to remote and/or different locations, but still need to communicate as if they were centrally located.

SUMMARY OF INVENTION

[0002a] In a first aspect, there is provided a system, comprising: at least one computing device; and a logical network configuration manager executable in the at least one computing device, wherein upon execution, the logical network configuration manager causes the at least one computing device to at least: receive, via a logical network gateway *operated by a computing service provider, at least one programmatic service call from a* client device associated with a customer of the computing service provider to connect to a logical network operated by the computing service provider; create, responsive to receipt of the at least one programmatic service call from the client device, a plurality of customer accounts associated with the logical network, individual ones of the plurality of customer accounts associated with respective ones of a plurality of clients; create, responsive to receipt of the at least one programmatic service call from the client device, a plurality of accountings of usage of the logical network, individual ones of the plurality of accountings

of usage associated with respective ones of the plurality of customer accounts; create, responsive to receipt of the at least one programmatic service call from the client device, a programmatic configuration of the logical network comprising the logical network gateway and the plurality of customer accounts; create, responsive to receipt of the at least one programmatic service call from the client device, a plurality of permissions associated with the logical network, individual ones of the plurality of permissions associated with the respective ones of the plurality of customer accounts; create, responsive to receipt of the at least one programmatic service call from the client device, a logical network tunnel between the client device and a plurality of virtual computers attached to the logical network according to the programmatic configuration, wherein the virtual computers are associated with network addresses specified by the customer and wherein the computing service provider operates a plurality of logical networks for the plurality of customer accounts associated with the computing service provider; and send confirmation data associated with creation of the logical network tunnel to the client device.

[0002b] In a second aspect, there is provided a method, comprising: creating, by a computing service provider via at least one computing device, a logical network for a customer within an environment provided by the computing service provider, wherein the logical network includes one or more virtual computers associated with a plurality of network addresses specified by the customer; creating, by the at least one computing device, a plurality of customer accounts associated with the logical network responsive to receipt of at least one programmatic service call from a client device, individual ones of the plurality of customer accounts associated with respective ones of a plurality of clients;

creating, by the at least one computing device, a plurality of accountings of usage responsive to receipt of the at least one programmatic service call from the client device, individual ones of the plurality of accountings of usage associated with respective ones of the plurality of customer accounts; creating, by the at least one computing device, a plurality of permissions associated with the logical network responsive to receipt of at least one programmatic service call from the client device, individual ones of the plurality of permissions associated with the respective ones of the plurality of customer accounts; creating, by the at least one computing device, a programmatic configuration of the logical network comprising a logical network gateway and the plurality of customer accounts responsive to receipt of the at least one programmatic service call from the client device; creating, by the at least one computing device, a logical network tunnel between the client device and the logical network in response to receipt of the at least one programmatic service call from the client device such that the client device appears as being present in the logical network; and transmitting, by the at least one computing device, confirmation data associated with the creation of the logical network tunnel to the client device.

BRIEF DESCRIPTION OF THE DRAWINGS

[0003] Many aspects of the present disclosure can be better understood with reference to the following drawings. The components in the drawings are not necessarily to scale, emphasis instead being placed upon clearly illustrating the principles of the disclosure. Moreover, in the drawings, like reference numerals designate corresponding parts throughout the several views.

[0004] FIG. 1 is a drawing of a networked environment according to various embodiments of the present disclosure.

[0005] FIG. 2 is a flowchart illustrating one example of functionality implemented as portions of a logical network application executed in a client computing device in the networked environment of FIG. 1 according to various embodiments of the present disclosure.

[0006] FIGS. 3A and 3B are flowcharts illustrating one example of functionality implemented as portions of a logical network configuration manager executed in a