CLAIMS

1. A method comprising:

receiving, from a customer system by a cloud exchange comprising processing circuitry, a request to communicatively couple a virtual gateway on network infrastructure of the cloud exchange to a network gateway communicatively coupled to a public network, the request including data indicating a public Internet Protocol (IP) address of the customer system, wherein the customer system is configured with a first connection communicatively coupling the customer system and the public network via a network service provider (NSP) that is separate from the cloud exchange, and wherein the customer system is colocated with the cloud exchange;

configuring, by the cloud exchange, a network route for a network gateway to the virtual gateway, the network gateway communicatively coupled to the public network; and

providing, by the cloud exchange to the network gateway, routing information including the public IP address of the customer system to create a second connection communicatively coupling the customer system and the public network via the network gateway and the virtual network gateway of the cloud exchange.

2. The method of claim 1, further comprising creating, by the cloud exchange, the virtual gateway on the network infrastructure.

3. The method of claim 1, wherein the request to communicatively couple the virtual gateway to the network gateway indicates a failure of the first connection.

4. The method of claim 1, further comprising:

receiving a request to create the virtual gateway via an Application Program Interface (API) exposed by the cloud exchange prior to receiving the request to communicatively couple the virtual gateway on network infrastructure of the cloud exchange to the network gateway.

5. The method of claim 1, wherein the request to communicatively couple the virtual gateway to the network gateway includes an Autonomous System Number associated with the customer system.

6. The method of claim 1, further comprising:

determining, by the cloud exchange, a network device of the network infrastructure communicably coupling the customer system with the cloud exchange; and

creating the virtual gateway on the network device.

7. The method of claim 1, wherein receiving the request to communicatively couple the virtual gateway to the network gateway comprises:

receiving a first request to create the virtual gateway; and

receiving a second request to connect the virtual gateway to the network gateway, the second request including the public IP address of the customer system.

8. The method of claim 1,

wherein the virtual gateway is configured to communicatively couple the customer system with a cloud service provider via a first Virtual Local Area Network (VLAN),

wherein configuring the network route for the virtual gateway to the network gateway comprises configuring the network route over a second VLAN, and

wherein the method further comprises:

receiving by the virtual gateway, network traffic, the network traffic having destination information; and

routing, by the virtual gateway, the network traffic to one of the network gateway or the cloud service provider based on the destination information.

9. The method of claim 8, wherein the request to communicatively couple the virtual gateway to the network gateway includes a bandwidth parameter specifying a maximum bandwidth for the virtual gateway, wherein the maximum bandwidth is shared by the first VLAN and the second VLAN.

10. The method of claim 1, wherein the first connection comprises a primary connection for the customer system and wherein the second connection comprises a secondary connection for the customer system.

11. A cloud exchange comprising:

a memory; and

processing circuitry configured to:

receive, from a customer system, a request to communicatively couple a virtual gateway on network infrastructure of the cloud exchange to a network gateway communicatively coupled to a public network, the request including data indicating a public Internet Protocol (IP) address of the customer system, wherein the customer system is configured with a first connection communicatively coupling the customer system and the public network via a network service provider (NSP) that is separate from the cloud exchange, and wherein the customer system is colocated with the cloud exchange;

configure a network route for a network gateway to the virtual gateway, the network gateway communicatively coupled to the public network; and

provide, to the network gateway, routing information including the public IP address of the customer system to create a second connection communicatively coupling the customer system and the public network via the network gateway and the virtual gateway of the cloud exchange.

12. The cloud exchange of claim 11, wherein the processing circuitry is further configured to create the virtual gateway on the network infrastructure.

13. The cloud exchange of claim 11, wherein the request to communicatively couple the virtual gateway to the network gateway indicates a failure of the first connection.

14. The cloud exchange of claim 11, wherein the processing circuitry is further configured to:

receive a request to create the virtual gateway via an Application Program Interface (API) exposed by the cloud exchange prior to receiving the request to communicatively couple the virtual gateway to the network gateway.

15. The cloud exchange of claim 11, wherein the request to communicatively couple the virtual gateway to the network gateway includes an Autonomous System Number associated with the customer system.

16. The cloud exchange of claim 11, wherein the processing circuitry is further configured to:

determine a network device of the network infrastructure communicably coupling the customer system with the cloud exchange; and

create the virtual gateway on the network device.

17. The cloud exchange of claim 11, wherein to receive the request to communicatively couple the virtual gateway to the network gateway comprises:

receive a first request to create the virtual gateway; and

receive a second request to connect the virtual gateway to the network gateway, the second request including the public IP address of the customer system.

18. The cloud exchange of claim 11,

wherein the virtual gateway is configured to communicatively couple the customer system with a cloud service provider via a first Virtual Local Area Network (VLAN),

wherein to configure the network route for the virtual gateway to the network gateway comprises to configure the network route over a second VLAN, and

wherein the virtual gateway is configured to:

receive network traffic, the network traffic having destination information; and

route the network traffic to one of the network gateway or the cloud service provider based on the destination information.

19. The cloud exchange of claim 18, wherein the request to communicatively couple the virtual gateway to the network gateway includes a bandwidth parameter specifying a maximum bandwidth for the virtual gateway, wherein the maximum bandwidth is shared by the first VLAN and the second VLAN.

20. A non-transitory computer-readable storage medium comprising machine executable instructions that, when executed, cause processing circuitry to:

receive, from a customer system, a request to communicatively couple a virtual gateway on network infrastructure of the cloud exchange to a network gateway communicatively coupled to a public network, the request including data indicating a public Internet Protocol (IP) address of the customer system, wherein the customer system is configured with a first connection communicatively coupling the customer system and the public network via a network service provider (NSP) that is separate from the cloud exchange, and wherein the customer system is colocated with the cloud exchange ;

configure a network route for a network gateway to the virtual gateway, the network gateway communicatively coupled to the public network; and

provide, to the network gateway, routing information including the public IP address of the customer system to create a second connection communicatively coupling the customer system and the public network via the network gateway and the virtual gateway of the cloud exchange.