

ABSTRACT

Embodiments of this application provide a packet processing method in a cloud computing system, a host, and a system. At least one network interface card is connected to the host. The at least one network interface card includes switching equipment and at least three network ports. A first virtual machine running on the host sends a data packet to a second virtual machine by using the VF that is connected to the first virtual machine. The data packet carries a VLAN identifier of the VF that sends the data packet. Switching equipment of a first network port receives the data packet, and forcibly forwards the data packet to the second network port by using the network cable. Switching equipment of the second network port sends, according to the VLAN identifier carried in the data packet, the data packet to a VLAN subinterface that has a same VLAN identifier as the data packet. The VLAN subinterface receives the data packet, removes the VLAN identifier in the data packet, and sends the data packet to the virtual network function module. The virtual network function module performs network function processing on the changed data packet, and sends the processed data packet to the second virtual machine. In a network interface card passthrough scenario, after sending a data packet by using a passthrough VF, a virtual machine may send the data packet to a virtual network function module on a VMM in the foregoing manner. Abundant virtual network functions are provided for a user by using the software module, so as to implement virtual network function processing on the data packet.

FIGURE 2