

CLAIMS

What is claimed is:

1. A method for providing a cloud service, wherein the method comprises:
receiving a service request sent by a terminal, wherein the service request comprises information about a total resource quantity required by a user;
generating one or more cloud service solutions by querying and matching an inventory based on the service request; and
providing the one or more cloud service solutions for the terminal, wherein at least one of the one or more cloud service solutions comprises a plurality of virtual machines, and a total resource quantity of the virtual machines in the one or more cloud service solutions meets the information about the total resource quantity in the service request.
2. The method according to claim 1, wherein the information about the total resource quantity comprises at least one of the following information: information about a total CPU quantity and information about a total memory quantity.
3. The method according to claim 1 or 2, wherein the service request further comprises resource performance information, and resource performance of the virtual machines in the one or more cloud service solutions meets the resource performance information in the service request.
4. The method according to claim 3, wherein the resource performance information comprises an underlying resource performance parameter, and the underlying resource performance parameter comprises at least one of the following: a CPU model, a CPU frequency, a memory model, a memory frequency, a GPU parameter, network performance, and storage read/write performance.
5. The method according to claim 3 or 4, wherein the resource performance information comprises at least one of the following information: a virtual machine capability type and a service scenario type, wherein the virtual machine capability type indicates computing, storage, and network capabilities of the virtual machine, and the service scenario type indicates a service scenario to which the virtual machine is applicable.
6. The method according to any one of claims 2 to 5, wherein the information about the total CPU quantity comprises at least one of the following information: the total CPU quantity, a maximum value of the total CPU quantity, and a minimum value of the total CPU quantity; and the information about the total memory quantity comprises at least one of the following information: the total memory quantity, a maximum value of the total memory quantity, and a

minimum value of the total memory quantity.

7. The method according to any one of claims 1 to 6, wherein the service request further comprises price information specified by the user, and a price of the one or more cloud service solutions meets the price information specified by the user.

8. The method according to any one of claims 1 to 7, wherein the method further comprises: providing the user with the cloud service based on a target cloud service solution selected by the user from the one or more cloud service solutions.

9. An apparatus for providing a cloud service, wherein the apparatus comprises:

a receiving module, configured to receive a service request sent by a terminal, wherein the service request comprises information about a total resource quantity required by a user; and

a sending module, configured to provide one or more cloud service solutions for the terminal, wherein at least one of the one or more cloud service solutions comprises a plurality of virtual machines, and a total resource quantity of the virtual machines in the one or more cloud service solutions meets the information about the total resource quantity in the service request,

wherein the apparatus is configured to generate the one or more cloud service solutions by querying and matching an inventory based on the service request.

10. The apparatus according to claim 9, wherein the information about the total resource quantity comprises at least one of the following information: information about a total CPU quantity and information about a total memory quantity.

11. The apparatus according to claim 9 or 10, wherein the service request further comprises resource performance information, and resource performance of the virtual machines in the one or more cloud service solutions meets the resource performance information in the service request.

12. The apparatus according to claim 11, wherein the resource performance information comprises an underlying resource performance parameter, and the underlying resource performance parameter comprises at least one of the following: a CPU model, a CPU frequency, a memory model, a memory frequency, a GPU parameter, network performance, and storage read/write performance.

13. The apparatus according to claim 11 or 12, wherein the resource performance information comprises at least one of the following information: a virtual machine capability type and a service scenario type, wherein the virtual machine capability type indicates computing, storage, and network capabilities of the virtual machine, and the service scenario type indicates a service scenario to which the virtual machine is applicable.

14. The apparatus according to any one of claims 10 to 13, wherein

the information about the total CPU quantity comprises at least one of the following

information: the total CPU quantity, a maximum value of the total CPU quantity, and a minimum value of the total CPU quantity; and

the information about the total memory quantity comprises at least one of the following information: the total memory quantity, a maximum value of the total memory quantity, and a minimum value of the total memory quantity.

15. The apparatus according to any one of claims 9 to 14, wherein the service request further comprises price information specified by the user, and a price of the one or more cloud service solutions meets the price information specified by the user.

16. The apparatus according to claim 9 to 15, wherein the apparatus further comprises:
a service module, configured to provide the cloud service for the user based on a target cloud service solution selected by the user from the one or more cloud service solutions.

17. A device, wherein the device comprises a memory and a processor, and the processor is configured to execute instructions stored in the memory, so that the device performs the method according to any one of claims 1 to 8.

18. A non-volatile storage medium, wherein the non-volatile storage medium comprises instructions; and when the instructions are executed by a computing device, the computing device is enabled to perform the method according to any one of claims 1 to 8.