

CLAIMS

1. A method for providing a multi-player room, applicable to a cloud server, the method comprising:

receiving from a client a creation request for a cloud room, the creation request carrying configuration information of the cloud room, the cloud room being used by at least two clients to perform a multi-player service;

creating and configuring the cloud room in the cloud server according to the configuration information;

receiving from the client an access request for the cloud room; and

starting the cloud room according to the access request, and connecting the client to the cloud room.

2. The method according to claim 1, wherein the configuration information comprises: a type of the multi-player service and an initialization configuration parameter; and

the creating and configuring the cloud room in the cloud server according to the configuration information comprises:

creating the cloud room in the cloud server;

installing a proprietary server program corresponding to the multi-player service in the cloud room according to the type of the multi-player service; and

starting the proprietary server program in response to successful installation of the proprietary server program, and configuring the proprietary server program.

3. The method according to claim 2, wherein the cloud server comprises: a proprietary server management program and a proprietary server program control program; and

the creating the cloud room in the cloud server, the installing a proprietary server program corresponding to the multi-player service in the cloud room according to the type of the multi-player service, and the starting the proprietary server program in response to successful installation of the proprietary server program, and configuring the proprietary server program comprise:

invoking the proprietary server management program to generate a creation instruction for the cloud room;

invoking the proprietary server program control program to create the cloud room according to the creation instruction;

invoking the proprietary server management program to generate an installation instruction according to the type of the multi-player service;

invoking the proprietary server program control program to install the proprietary server program corresponding to the multi-player service in the cloud room according to the installation instruction;

invoking the proprietary server program control program to generate a configuration instruction for the cloud room in response to the successful installation of the proprietary server program; and

invoking the proprietary server program control program to configure the proprietary server program according to the configuration instruction.

4. The method according to claim 2, further comprising:

closing the cloud room in response to presence of an updating program for the proprietary server program;

installing the updating program corresponding to the multi-player service in the cloud room according to the type of the multi-player service; and

starting the cloud room in response to successful updating.

5. The method according to claim 4, wherein the cloud server comprises a proprietary server management program and a proprietary server program control program; and

the closing the cloud room in response to presence of an updating program for the proprietary server program, the installing the updating program corresponding to the multi-player service in the cloud room according to the type of the multi-player service, and the starting the cloud room in response to successful updating comprise:

invoking the proprietary server management program to generate a closing instruction;

invoking the proprietary server program control program to close the cloud room according to the closing instruction;

invoking the proprietary server management program to generate an updating instruction;

invoking the proprietary server program control program to install the updating program corresponding to the multi-player service in the cloud room according to the updating instruction;

invoking the proprietary server management program to generate a start instruction in response to the successful updating; and

invoking the proprietary server program control program to start the cloud room according to the start instruction.

6. The method according to claim 2, wherein the creation request is a purchase request, and the creating the cloud room in the cloud server comprises:

generating a purchase order for the cloud room according to the purchase request;

transmitting the purchase order to the client that is used for requesting the client to transfer a resource; and

creating the cloud room in the cloud server in response to a successful transfer of the resource corresponding to the purchase order.

7. The method according to claim 6, wherein the cloud server further comprises: a proprietary server purchase program and a proprietary server management program; and

the generating a purchase order for the cloud room according to the purchase request, the transmitting the purchase order to the client that is used for requesting the client to transfer a resource, and the creating the cloud room in the cloud server in response to a successful transfer of the resource corresponding to the purchase order comprise:

invoking the proprietary server purchase program to generate the purchase order for the cloud room;

invoking the proprietary server purchase program to transmit the purchase order to the client that is used for requesting the client to transfer the resource;

invoking the proprietary server purchase program to transmit a paid purchase order to the proprietary server management program in response to the successful transfer of the resource corresponding to the purchase order;

invoking the proprietary server management program to generate a successful resource transfer

indication according to the paid purchase order; and

invoking the proprietary server program control program to create the cloud room according to the successful resource transfer indication.

8. The method according to any of claims 1 to 7, wherein after the connecting the client to the cloud room, the method further comprises:

receiving from the client a configuration modification request for the cloud room;

closing the cloud room;

modifying the configuration information of the cloud room according to the configuration modification request; and

starting the cloud room in response to successful modification of the configuration information of the cloud room.

9. The method according to claim 8, wherein the cloud server further comprises: a proprietary server management program and a proprietary server program control program; and

the receiving from the client a configuration modification request for the cloud room, the closing the cloud room, the modifying the configuration information of the cloud room according to the configuration modification request, and the starting the cloud room in response to successful modification of the configuration information of the cloud room comprise:

invoking the proprietary server management program to receive from the client the configuration modification request for the cloud room;

invoking the proprietary server management program to generate a closing instruction;

invoking the proprietary server program control program to close the cloud room according to the closing instruction;

invoking the proprietary server management program to generate a configuration modification instruction according to the configuration modification request;

invoking the proprietary server program control program to modify the configuration information of the cloud room according to the configuration modification instruction;

invoking the proprietary server management program to generate a start instruction in response

to the successful modification of the configuration information of the cloud room; and

invoking the proprietary server program control program to start the cloud room according to the start instruction.

10. The method according to any of claims 1 to 7, further comprising:

monitoring a heartbeat signal of the cloud room that is used for indicating an operation status of the cloud room; and

closing the cloud room or restarting the cloud room in response to an abnormal operation status of the cloud room.

11. The method according to claim 10, wherein the cloud server further comprises a proprietary server monitoring program and a proprietary server database; and

the monitoring a heartbeat signal of the cloud room that is used for indicating an operation status of the cloud room, and the closing the cloud room or restarting the cloud room in response to an abnormal operation status of the cloud room comprise:

invoking the proprietary server program control program to receive the heartbeat signal of the cloud room that is used for indicating the operation status of the cloud room;

invoking the proprietary server management program to write the heartbeat signal to the proprietary server database;

invoking the proprietary server monitoring program to read the heartbeat signal from the proprietary server database; and

invoking the proprietary server management program to generate a closing instruction in response to the abnormal operation status of the cloud room, and invoking the proprietary server program control program to close the cloud room according to the closing instruction; or invoking the proprietary server management program to generate a restart instruction in response to the abnormal operation status of the cloud room, and invoking the proprietary server program control program to restart the cloud room according to the restart instruction.

12. The method according to any of claims 1 to 7, wherein the client is allowed to use the cloud room within a validity period, and the method further comprises:

monitoring the validity period for the cloud room; and

transmitting a prompting request to the client at a target moment before expiration of the validity period.

13. An apparatus for providing a multi-player room, the apparatus comprising a cloud room generation module,

the cloud room generation module being configured to receive from a client a creation request for a cloud room, the creation request carrying configuration information of the cloud room, the cloud room being used by at least two clients to perform a multi-player service;

the cloud room generation module being configured to create and configure the cloud room in the cloud server according to the configuration information;

the cloud room generation module being configured to receive from the client an access request for the cloud room; and

the cloud room generation module being configured to start the cloud room according to the access request, and connect the client to the cloud room.

14. The apparatus according to claim 13, wherein the configuration information comprises: a type of the multi-player service and an initialization configuration parameter, and the cloud room generation module comprises: a proprietary server management submodule and a proprietary server program control submodule,

the proprietary server management submodule being configured to generate a creation instruction for the cloud room;

the proprietary server program control submodule being configured to create the cloud room according to the creation instruction;

the proprietary server management submodule being configured to generate an installation instruction according to the type of the multi-player service;

the proprietary server program control submodule being configured to install a proprietary server program corresponding to the multi-player service in the cloud room according to the installation instruction;

the proprietary server program control submodule being configured to generate a configuration

instruction for the cloud room in response to successful installation of the proprietary server program;
and

the proprietary server program control submodule being configured to configure the proprietary server program according to the configuration instruction.

15. The apparatus according to claim 13, wherein the cloud room generation module comprises:
a proprietary server management submodule and a proprietary server program control submodule,

the proprietary server management submodule being configured to generate a closing instruction;

the proprietary server program control submodule being configured to close the cloud room according to the closing instruction;

the proprietary server management submodule being configured to generate an updating instruction;

the proprietary server program control submodule being configured to install an updating program corresponding to the multi-player service in the cloud room according to the updating instruction;

the proprietary server management submodule being configured to generate a start instruction in response to successful updating; and

the proprietary server program control submodule being configured to start the cloud room according to the start instruction.

16. The apparatus according to claim 13, wherein the creation request is a purchase request, and the cloud room generation module comprises: a proprietary server purchase submodule, a proprietary server management submodule, and a proprietary server program control submodule,

the proprietary server purchase submodule being configured to generate a purchase order for the cloud room;

the proprietary server purchase submodule being configured to transmit the purchase order to the client that is used for requesting the client to transfer a resource;

the proprietary server purchase submodule being configured to transmit a paid purchase order to the proprietary server management submodule in response to a successful transfer of the resource corresponding to the purchase order;

the proprietary server management submodule being configured to generate a successful resource transfer indication according to the paid purchase order; and

the proprietary server program control submodule being configured to create the cloud room according to the successful resource transfer indication.

17. The apparatus according to any of claims 13 to 16, wherein the cloud room generation module comprises: a proprietary server management submodule and a proprietary server program control submodule,

the proprietary server management submodule being configured to receive from the client a configuration modification request for the cloud room;

the proprietary server management submodule being configured to generate a closing instruction;

the proprietary server program control submodule being configured to close the cloud room according to the closing instruction;

the proprietary server management submodule being configured to generate a configuration modification instruction according to the configuration modification request;

the proprietary server program control submodule being configured to modify the configuration information of the cloud room according to the configuration modification instruction;

the proprietary server management submodule being configured to generate a start instruction in response to successful modification of the configuration information of the cloud room; and

the proprietary server program control submodule being configured to start the cloud room according to the start instruction.

18. The apparatus according to any of claims 13 to 16, wherein the cloud room generation module comprises: a proprietary server program control submodule, a proprietary server management submodule, a proprietary server monitoring submodule, and a proprietary server database,

the proprietary server program control submodule being configured to receive a heartbeat signal of the cloud room that is used for indicating an operation status of the cloud room;

the proprietary server management submodule being configured to write the heartbeat signal to the proprietary server database;

the proprietary server monitoring submodule being configured to read the heartbeat signal from

the proprietary server database;

the proprietary server management submodule being configured to generate a closing instruction in response to an abnormal operation status of the cloud room; the proprietary server program control submodule being configured to close the cloud room according to the closing instruction; or

the proprietary server management submodule being configured to generate a restart instruction in response to the abnormal operation status of the cloud room; and the proprietary server program control submodule being configured to restart the cloud room according to the restart instruction.

19. A computer device, comprising: a processor and a memory storing at least one instruction, at least one program, a code set, or an instruction set, the at least one instruction, the at least one program, the code set, or the instruction set being loaded and executed by the processor to implement the method for providing a multi-player room according to any of claims 1 to 12.

20. A computer-readable storage medium, storing at least one instruction, at least one program, a code set, or an instruction set, the at least one instruction, the at least one program, the code set, or the instruction set being loaded and executed by a processor to implement the method for providing a multi-player room according to any of claims 1 to 12.