CLAIMS

1. A method of automatic operational maintenance, being applicable to a cloud, and comprising:

in response to determining that an operational maintenance task in a preset task list satisfies an execution condition, issuing an operational maintenance instruction corresponding to the operational maintenance task to a remote device;

receiving an execution result in response to the operational maintenance instruction returned by the remote device;

wherein the operational maintenance task comprises a task content, a remote device identifier, and a task execution time;

determining that an operational maintenance task in the preset task list satisfies an execution condition comprises:

determining that a current time meets the task execution time of an operational maintenance task in the preset task list;

issuing an operational maintenance instruction corresponding to the operational maintenance task to a remote device comprises:

issuing the operational maintenance instruction corresponding to the task content in the operational maintenance task to a remote device corresponding to the remote device identifier in the operational maintenance task;

wherein the operational maintenance task comprises a plurality of remote device identifiers; issuing an operational maintenance instruction corresponding to the task content in the operational maintenance task to a remote device corresponding to the remote device identifier in the operational maintenance task comprises:

issuing the operational maintenance instruction corresponding to the task content in the operational maintenance task to a plurality of remote devices respectively corresponding to the plurality of remote device identifiers in the operational maintenance task;

wherein issuing the operational maintenance instruction corresponding to the task content in the operational maintenance task to the remote devices respectively corresponding to the plurality of remote device identifiers in the operational maintenance task comprises:

for each of the remote devices respectively corresponding to the plurality of remote device identifiers in the operational maintenance task, establishing a thread for the remote device; and

issuing the operational maintenance instruction corresponding to the task content in the operational maintenance task to the plurality of remote devices in parallel through a plurality of the threads.

2. The method according to claim 1, wherein, the operational maintenance instruction comprises at least one of: remote device upgrading, application installation, running state switching, restart and shutdown.

3. The method according to claim 1 or 2, further comprises:

updating a state of the operational maintenance task based on the execution result.

4. The method according to claim 3, further comprises:

in response to that the state of the operational maintenance task is failed, marking the operational maintenance task with a failed reason in the execution result, wherein the failed reason is to be viewed by an operational maintenance personnel.

5. The method according to claim 3 or 4, further comprises:

generating promotion information based on the updated state of the operational maintenance task, wherein the promotion information is to notify an operational maintenance personnel of the execution result for the operational maintenance task.

6. An apparatus for automatic operational maintenance, being applicable to a cloud, and comprising:

an instruction issuing module, configured to, in response to determining that an operational maintenance task in a preset task list satisfies an execution condition, issue an operational maintenance instruction corresponding to the operational maintenance task to a remote device;

a result receiving module, configured to receive an execution result in response to the operational maintenance instruction returned by the remote device;

wherein the operational maintenance task comprises a task content, a remote device identifier, and a task execution time;

the instruction issuing module is specifically configured to: when a current time meets a task execution time of the operational maintenance task in the preset task list, issue the operational maintenance instruction corresponding to the task content in the operational maintenance task to a remote device corresponding to the remote device identifier in the operational maintenance task;

wherein the operational maintenance task comprises a plurality of remote device identifiers;

the instruction issuing module is configured to issue the operational maintenance instruction corresponding to the task content in the operational maintenance task to a remote

device corresponding to the remote device identifier in the operational maintenance task, comprising:

issuing the operational maintenance instruction corresponding to the task content in the operational maintenance task to a plurality of remote devices corresponding to a plurality of remote device identifiers in the operational maintenance task respectively;

wherein the instruction issuing module is configured to issue the operational maintenance instruction corresponding to the task content in the operational maintenance task to the remote devices respectively corresponding to a plurality of remote device identifiers in the operational maintenance task, comprising:

for each of the remote devices respectively corresponding to the plurality of remote device identifiers in the operational maintenance task, establishing a thread for the remote device; and

issuing the operational maintenance instruction corresponding to the task content in the operational maintenance task to the plurality of remote devices in parallel through a plurality of the threads.

7. The apparatus according to claim 6, wherein,

the operational maintenance instruction comprises at least one of: remote device upgrading, application installation, running state switching, restart and shutdown.

8. The apparatus according to claim 6 or 7, wherein,

after receiving the execution result of the operational maintenance instruction returned by the remote device, the result receiving module is further configured to:

update a state of the operational maintenance task based on the execution result.

9. The apparatus according to claim 8, wherein,

after updating the state of the operational maintenance task based on the execution result, the result receiving module is further configured to:

in response to that the state of the operational maintenance task is failed, mark a failed reason in the execution result for the operational maintenance task, wherein the failed reason is to be viewed by operational maintenance personnel.

10. A computer program product, comprising computer programs/instructions, wherein the computer programs/instructions are executed by a processor to implement the method according to any one of claims 1-5.

11. An electronic device, comprising a memory and a processor, wherein the memory is configured to store computer instructions run on the processor, and the processor is configured to, when executing the computer instructions, implement the method according to any one of claims 1-5.

12. A computer readable storage medium, storing computer programs, wherein the computer programs are executed by a processor to implement the method according to any one of claims 1-5.