WHAT IS CLAIMED IS:

1. A cloud storage interval updating method, comprising:

determining a cloud storage interval to be updated in a cloud storage system;

determining a target cloud storage interval in the cloud storage system; and

replicating data in the cloud storage interval to be updated to the target cloud storage interval based on a content verification, wherein replicating data in the cloud storage interval to be updated to the target cloud storage interval based on the content verification further comprises:

calculating a first content check value of the target cloud storage interval obtained after the data in the cloud storage interval to be updated is replicated;

locking an input/output index address ring data component, wherein the input/output index address ring data component stores an index address pointing to a physical address corresponding to the cloud storage interval;

detecting whether an address of the target cloud storage interval is in an inbound direction of the input/output index address ring data component;

when the address of the target cloud storage interval is in the inbound direction of the input/output index address ring data component, locking the cloud storage interval to be updated, and calculating a second content check value of the cloud storage interval to be updated; and

sending information of the target cloud storage interval to a memory management unit when the first content check value matches the second content check value.

2. The cloud storage interval updating method according to claim 1, wherein replicating data in the cloud storage interval to be updated to the target cloud storage interval based on the content verification further comprises:

clearing data directory information of the cloud storage interval to be updated; and

replicating the data in the cloud storage interval to be updated to the target cloud storage interval.

3. The cloud storage interval updating method according to claim 2, wherein after detecting whether the address of the target cloud storage interval is in the inbound direction of the input/output index address ring data component, the method further comprises:

when the address of the target cloud storage interval is not in the inbound direction of the input/output index address ring data component, unlocking the input/output index address ring data component to enter a sleep state; and

returning to clear the data directory information of the cloud storage interval to be updated again after a preset time.

4. The cloud storage interval updating method according to claim 3, wherein sending information of the target cloud storage interval to the memory management unit when the first content check value matches the second content check value is implemented as:

sending the information of the target cloud storage interval to the memory management unit when the first content check value matches the second content check value; and

unlocking the input/output index address ring data component.

5. The cloud storage interval updating method according to claim 1, wherein after locking the cloud storage interval to be updated, and calculating the second content check value of the cloud storage interval to be updated, the method further comprises:

when the first content check value does not match the second content check value, returning to replicate the data in the cloud storage interval to be updated to the target cloud storage interval again.

6. A cloud storage interval updating apparatus, comprising:

a first determining module configured to determine a cloud storage interval to be updated in a cloud storage system;

a second determining module configured to determine a target cloud storage interval in the cloud storage system;

a replicating module configured to replicate data in the cloud storage interval to be updated to the target cloud storage interval based on a content verification;

a calculating sub-module configured to calculate a first content check value of the target cloud storage interval obtained after the data is replicated and a second content check value of the cloud storage interval to be updated;

a first locking sub-module configured to lock the cloud storage interval to be updated;

a sending sub-module configured to send information of the target cloud storage interval to a memory management unit when the first content check value matches the second content check value;

a second locking sub-module configured to lock an input/output index address ring data component, wherein the input/output index address ring data component stores an index address pointing to a physical address corresponding to the cloud storage interval; and

a detecting sub-module configured to detect whether n address of the target cloud storage interval is in an inbound direction of the input/output index address ring data component;

wherein the first locking sub-module is further configured to when the address of the target cloud storage interval is in the inbound direction of the input/output index address ring data component, lock the cloud storage interval to be updated.

7. The cloud storage interval updating apparatus according to claim 6, wherein the replicating module further comprises:

a clearing sub-module configured to clear data directory information of the cloud storage interval to be updated; and

a replicating sub-module configured to replicate the data in the cloud storage interval to be updated to the target cloud storage interval.

8. The cloud storage interval updating apparatus according to claim 7, wherein after the detecting sub-module, the replicating module further comprises:

an unlocking sub-module configured to, when the address of the target cloud storage interval is not in the inbound direction of the input/output index address ring data component, unlock the input/output index address ring data component to enter a sleep state and return to clear the data directory information of the cloud storage interval to be updated again after a preset time.

9. The cloud storage interval updating apparatus according to claim 6, wherein the sending sub-module is further configured to:

send the information of the target cloud storage interval to the memory management unit when the first content check value matches the second content check value, for unlocking the input/output index address ring data component.

10. The cloud storage interval updating apparatus according to claim 6, wherein after the first locking sub-module, the replicating module further comprises:

a returning sub-module configured to, when the first content check value does not match the second content check value, return to replicate the data in the cloud storage interval to be updated to the target cloud storage interval again.

11. An electronic device, comprising a memory and a processor, wherein

the memory is configured to store one or more computer instructions, and the one or more computer instructions are executed by the processor to implement steps of the method according to any one of claims 1 to 5.

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