CLAIMS

What is claimed is:

1. A computer-implemented method for disabling an application, the computer-implemented method comprising:

invoking, by an application management module, an end function of a node of the application;

stopping a root node of the application from receiving backflow data;

determining the root node as a current node;

processing data in the current node;

sending the data to a downstream node;

completing processing of the data in the current node;

broadcasting an ending identifier to downstream sub-nodes of the current node; and

receiving ending identifiers broadcast by upstream nodes.

2. The computer-implemented method of claim 1, further comprising:

determining whether the current node comprises a next node;

in response to determining that the current node comprises the next node, determining the next node as the current node;

returning to perform the step of processing the data in the current node; and

sending the data to the downstream node.

3. The computer-implemented method of claim 1, further comprising:

determining whether the current node comprises a last node; and

in response to determining that the current node comprises the last node, returning, by the root node, execution completion information to the application management module to wait for the application management module to recycle a process that corresponds to each node.

4. The computer-implemented method of claim 3, further comprising:

triggering a predetermined start command when recycling is completed, to start a process that corresponds to each node in the application.

5. The computer-implemented method of claim 1, wherein the application is configured to concurrently process a plurality of threads, each thread running a corresponding sub-process.

6. The computer-implemented method of claim 1, further comprising:

retrieving an application name of the application submitted for an upgrade;

determining whether the application name corresponds to an existing application; and

in response to determining that the application name corresponds to the existing application, triggering a predetermined disable command, to invoke an end function of each node in the existing application.

7. The computer-implemented method of claim 6, wherein triggering the predetermined disable command comprises:

determining whether a submitted upgrade command for the existing application is received; and

in response to determining that the submitted upgrade command for the existing application is received, triggering the predetermined disable command to invoke the end function of each node in the existing application.

8. An apparatus for upgrading an application, the apparatus comprising a plurality of modules configured to perform the computer-implemented method of any one of claims 1 to 7.