CLAIMS

What is claimed is:

1. A method for managing an institutional node in a Kubernetes cluster, performed by a domain controller, wherein the domain controller applies to the Kubernetes cluster for monitoring domain resource-related information in advance by using a monitoring mechanism, wherein the domain controller further applies to the Kubernetes cluster for related information about a monitored computing node, and the method comprises:

obtaining a first resource change event based on the monitoring mechanism, wherein the first resource change event indicates that a custom domain resource is created in the Kubernetes cluster, content in the domain resource comprises a name of the domain resource and resource configuration information, and the name corresponds to a target institution;

creating a namespace that has the name and that is unique to the target institution in the Kubernetes cluster; and

creating another resource related to the target institution in the namespace based on the resource configuration information, wherein the method further comprises:

obtaining a fourth resource change event based on the monitoring mechanism, wherein the fourth resource change event indicates that the target institution registers the computing node with the Kubernetes cluster;

adding status information of the registered computing node to the domain resource.

obtaining a fifth resource change event based on the monitoring mechanism, wherein the fifth resource change event indicates that the status information of the registered computing node is changed; and

correspondingly updating the status information in the domain resource.

2. The method according to claim 1, wherein the monitoring mechanism is a list-watch mechanism; and before the obtaining a first resource change event, the method further comprises:

applying to the Kubernetes cluster for the monitoring domain resource-related information through a list-watch interface; and

establishing a long connection to the Kubernetes cluster, to obtain a resource change event through the list-watch interface.

3. The method according to claim 1, wherein the another resource comprises a resource quota resource.

4. The method according to claim 1, further comprising:

obtaining a second resource change event based on the monitoring mechanism, wherein the second resource change event indicates that the domain resource is updated; and

correspondingly updating a related resource in the namespace based on content in an updated domain resource.

5. The method according to claim 1, further comprising:

obtaining a third resource change event based on the monitoring mechanism, wherein the third resource change event indicates that the domain resource is deleted; and

deleting the namespace and the another resource from the Kubernetes cluster in response to the third resource change event.

6. A domain controller, wherein the domain controller applies to a Kubernetes cluster for monitoring domain resource-related information in advance by using a monitoring mechanism, wherein the domain controller further applies to the Kubernetes cluster for related information about a monitored computing node, and the domain controller comprises:

a monitoring module, configured to obtain a first resource change event based on the monitoring mechanism, wherein the first resource change event indicates that a custom domain resource is created in the Kubernetes cluster, content in the domain resource comprises a name of the domain resource and resource configuration information, and the name corresponds to a target institution;

a first creation module, configured to create a namespace that has the name and that is unique to the target institution in the Kubernetes cluster;

a second creation module, configured to create another resource related to the target institution in the namespace based on the resource configuration information;

the monitoring module is further configured to obtain a fourth resource change event based on the monitoring mechanism, wherein the fourth resource change event indicates that the target institution registers the computing node with the Kubernetes cluster;

an addition module, configured to add status information of the registered computing node to the domain resource;

the monitoring module is further configured to obtain a fifth resource change event based on

the monitoring mechanism, wherein the fifth resource change event indicates that the status information of the registered computing node is changed; and

an update module, configured to correspondingly update the status information in the domain resource.

7. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program, and when the computer program is executed in a computer, the computer is enabled to perform the method according to any one of claims 1 to 5.

8. A computing device, comprising a memory and a processor, wherein the memory stores executable code, and when the processor executes the executable code, the method according to any one of claims 1 to 5 is implemented.