WHAT IS CLAIMED IS:

1. A computer-implemented method for creating a Hyperledger Fabric network, comprising:

acquiring a configuration file required to create a Hyperledger Fabric network in a Kubernetes cluster; and

creating the Hyperledger Fabric network in the Kubernetes cluster according to the configuration file and a preset state machine.

2. The method according to claim 1, wherein the configuration file includes component information, and the creating the Hyperledger Fabric network in the Kubernetes cluster according to the configuration file and a preset state machine includes:

creating the Hyperledger Fabric network in the Kubernetes cluster according to a creation order of components in the preset state machine and the component information.

3. The method according to claim 2, wherein the creating the Hyperledger Fabric network in the Kubernetes cluster according to a creation order of components in the preset state machine and the component information includes:

acquiring meta information from the component information, and instantiating the meta information;

creating a component relevant file configuring relevance between the components according to the instantiated meta information;

creating a Mysql component according to Mysql component information in the component information, after the component relevant file is successfully created;

creating a CA component according to CA component information in the component information, after the Mysql component is successfully created;

creating a certificate file according to the component information, after the CA component is successfully created;

creating an Orderer component according to Orderer component information in the component information, after the certificate file is successfully created;

creating a Peer component according to Peer component information in the component information, after the Orderer component is successfully created; and

determining the Hyperledger Fabric network being successfully created in the Kubernetes cluster and the Hyperledger Fabric network being in a running state, after the Peer component is successfully created.

4. The method according to claim 2, wherein after the creating the Hyperledger Fabric network in the Kubernetes cluster, the method further comprises:

monitoring running states of components in the Hyperledger Fabric network; and

recreating, when a component stopping running being presented in the Hyperledger Fabric network is detected, the component stopping running, according to component information corresponding to the component stopping running in the component information.

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

recreating, when an upgraded configuration file is acquired, the Hyperledger Fabric network in the Kubernetes cluster according to the upgraded

configuration file and the preset state machine.

6. A controller, comprising:

an acquiring unit, configured to acquire a configuration file required to create a Hyperledger Fabric network in a Kubernetes cluster; and

a creating unit, configured to create the Hyperledger Fabric network in the Kubernetes cluster according to the configuration file and a preset state machine.

7. The controller according to claim 6, wherein the configuration file includes component information, and the creating unit is further configured to create the Hyperledger Fabric network in the Kubernetes cluster according to a creation order of components in the preset state machine and the component information.

8. The controller according to claim 7, wherein the creating unit is further configured to acquire meta information from the component information, and instantiate the meta information; create a component relevant file configuring relevance between the components according to the instantiated meta information; create a Mysql component according to Mysql component information in the component information, after the component relevant file is successfully created;create a CA component according to CA component information in the component information, after the Mysql component is successfully created; create a certificate file according to the component information, after the CA component is successfully created; create an Orderer component according to Orderer component information in the component information, after the certificate file is successfully created; create a Peer component according to Peer component information in the component information, after the Orderer component is

successfully created; and determine the Hyperledger Fabric network being successfully created in the Kubernetes cluster and the Hyperledger Fabric network being in a running state, after the Peer component is successfully created.

9. The controller according to claim 7, further comprising:

a monitoring unit, configured to monitor running states of components in the Hyperledger Fabric network,

wherein the creating unit is further configured to recreate, when a component stopping running being presented in the Hyperledger Fabric network is detected, the component stopping running, according to component information corresponding to the component stopping running in the component information.

10. The controller according to claim 6, wherein,

the acquiring unit is further configured to acquire an upgraded configuration file; and

the creating unit is further configured to recreate the Hyperledger Fabric network in the Kubernetes cluster according to the upgraded configuration file and the preset state machine.

11. A storage medium, storing an instruction, wherein the instruction, when executed on a computer, causes the computer to perform the method for creating a Hyperledger Fabric network according to any one of claims 1–5.

12. A computer program product, comprising a computer program, the computer program, when executed by a processor, implements the method according to any one of claims 1–5.