

PRIVACY COMPUTING TASK EXECUTION METHOD, PRIVACY TASK CONTROLLER, CENTRALIZED SCHEDULER

ABSTRACT

Embodiments of this specification provide a privacy computing task execution method,
5 related to a privacy task controller, a task resource group controller, and a centralized scheduler in
a kubernetes cluster. The method includes: The privacy task controller creates a task resource
group corresponding to a privacy computing task. The task resource group includes information
about a plurality of participants of the task. Several pods used to run the privacy computing task
are created in each of namespaces of the plurality of participants. The task resource group
10 controller learns through watching that the task resource group is created, and creates a task
resource in the task resource group in each of the namespaces of the plurality of participants. The
task resource includes a threshold of a quantity of pods in which a participant needs to reserve a
resource. The centralized scheduler learns through watching that any pod is created, and updates
a state of the task resource to a reserved state when it is determined that a quantity of pods in which
15 a resource is reserved in a task resource on which the pod depends is not less than the
corresponding threshold of the quantity of pods; and determine, based on the state of the task
resource, whether to schedule the pod to a computing node of a corresponding participant.

FIG. 1

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