**相关内容：**

Workflow

计算机生成了可选文字:
Joblnfos
Nodelnfos
ssnBind
狺JobReady
ssn_EViCt
ifpreemptable
OpenSession
enqueue
allocate
preempt
reclaim
backfill
CloseSession
Predicate,/ocate,emp《are
ActionsandtheVrepluggable
DRFplugin
山Orde「Fn
PreemptaNeFn
Priorityplugin
JOb01derFn
TaskOrderFn
preernptablern
Gangplugin
JO以上Ce十n
PreemptableFn
JobReadyFn
Pluginsondemand

1. Action

action定义了调度各环节中需要执行的动作

1. Plugin

plugin根据不同场景提供了action 中算法的具体实现细节

*来自 <*[*https://volcano.sh/zh/docs/schduler\_introduction/*](https://volcano.sh/zh/docs/schduler_introduction/)*>*

**如何查看Volcano scheduler的配置**

* 查看名为volcano-scheduler-configmap的configmap
* **#** kubectl get configmap -nvolcano-system
* NAME DATA AGE
* volcano-scheduler-configmap 1 6d2h
* 查看configmap的data部分详情
* **#** kubectl get configmap volcano-scheduler-configmap -nvolcano-system -oyaml
* apiVersion: v1
* data:
* volcano-scheduler.conf: |
* actions: "enqueue, allocate, backfill"
* tiers:
* - plugins:
* - name: priority
* - name: gang
* - name: conformance
* - plugins:
* - name: drf
* - name: predicates
* - name: proportion
* - name: nodeorder
* - name: binpack
* kind: ConfigMap
* metadata:
* annotations:
* kubectl.kubernetes.io/last-applied-configuration: |
* {"apiVersion":"v1","data":{"volcano-scheduler.conf":"actions: \"enqueue, allocate, backfill\"\ntiers:\n- plugins:\n - name: priority\n - name: gang\n - name: conformance\n- plugins:\n - name: drf\n - name: predicates\n - name: proportion\n - name: nodeorder\n - name: binpack\n"},"kind":"ConfigMap","metadata":{"annotations":{},"name":"volcano-scheduler-configmap","namespace":"volcano-system"}}
* creationTimestamp: "2020-08-15T04:01:02Z"
* name: volcano-scheduler-configmap
* namespace: volcano-system
* resourceVersion: "266"
* selfLink: /api/v1/namespaces/volcano-system/configmaps/volcano-scheduler-configmap
* uid: 1effe4d6-126c-42d6-a3a4-b811075c30f5

在volcano-scheduler.conf中主要包括actions和tiers两部分。在actions中，使用逗号作为分隔符配置各需要执行的action。需要注意的是，action的配置 顺序就是scheduler的执行顺序。Volcano本身不会对action顺序的合理性进行检查。tiers中配置的plugin列表即为注册到scheduler中的plugin。plugin中 实现的算法将会被action调用。

计算机生成了可选文字:
Examples
#default
actIOns：
plugins：
name：
name：
plugins：
name：
name：
name：
name：
Note:
configurationforscheduler
enqueue,allocate,backfill"
prlorlty
gang
conformance
drf
predicates
proportlon
binpack
Accordingtothedefaultconfiguration,theschedulingprocessworksasfollowsatasession.Theschedulerwillrunthefollowingpipelineregularly.TheperiodisIsbydefault.
graphLR
I(Start)
一>2(OpenSession)
一>3(enqueue)
一一>4(a110cate)
一一>5(backfi11)
一>6(CIoseSession)
AllthefunctionsintheconfiguredpluginswillberegisteredwhenexecutingOpenSessionandcalledwhenexecutingtheconfiguredactions.卜orexample,jobEnqueueab1efunction,
whichisregisteredinoverconnitpluginandcalledatenqueueaction,aimstojudgewhethertheidleresource耐theclustercansatisfytheminimaldemand耐aworkload.
BothovercomitandproportionpluginhaveregisteredfunctionjobEnqueueab1eFn，whichwillbecalledinthefunctionJobEnqueueab1e。Besides,overcommitand
proportionareinthesametier.AccordingtotheimplementationofJobEnqueueab1e，itwillgetthroughthepluginsindifferenttiersinorder.IfanyjobEnqueueab1eFnretums
av引belowse。itstopsexecutingthejobEnqueueab1eFnregisteredinthefollowingpluginsandretumsfalse。Namely,ifthejobEnqueueab1eFnregisteredinoverconnit
returnsavaluebelows9，jobEnqueueab1eFn，whichis》dinenqueueaction,Willretumfalseandneverc引1thejobEnqueueab1eFnregisteredintheproportionplugin.

**自定义**

1. 自定义ACTION

1. 自定义Plugin

* In general, a plugin mainly consists of 3 functions: Name OnSessionOpen OnSessionClose. Name provides the name of the plugin. OnSessionOpen executes some operations when a session starts and register some functions about scheduling details. OnSessionClose clean up some resource when a session finishes.