

2、Spark版本升级

- Spark版本升级
 - 1、上传安装包
 - 2、停止Spark服务
 - 3、更新Spark服务挂载目录
 - 4、升级Spark版本

由于V96版本中数据挖掘的Spark组件升级了版本，V95高性能版本升级V96时也需要升级Spark版本

Spark版本升级

1、上传安装包

获取新的spark更新包，上传到高性能版本部署服务器/opt目录下，并解压

```
cd /opt
tar -zxvf smartbi-spark.tar.gz
```

进入解压后的目录

```
cd /opt/smartbi-spark
```

文件如下

```
[root@localhost smartbi-spark]# ls
load_spark_image.sh  smartbi-spark  Smartbi-Spark.tar
```

执行脚本导入Spark镜像

```
cd /opt/smartbi-spark
./load_spark_image.sh [RancherIP]    ##RancherIP
```

参考下图

```
[root@localhost smartbi-spark]# ./load_spark_image.sh 10.10.204.154
2020-09-24 16:37:03 Check IPAddr
2020-09-24 16:37:03 10.10.204.154 is valid
2020-09-24 16:37:03 Load Spark images
2e1a6eaf3dd0: Loading layer [=====>] 245.6MB/245.6MB
ae33de3e6191: Loading layer [=====>] 2.56kB/2.56kB
3d20a4461815: Loading layer [=====>] 486.3MB/486.3MB
b51400490fb4: Loading layer [=====>] 2.56kB/2.56kB
cce65f1de11b: Loading layer [=====>] 2.048kB/2.048kB
9cf77c9fb8fe: Loading layer [=====>] 2.048kB/2.048kB
Loaded image: localhost:5000/smartbi-spark:V9.6
WARNING! Using --password via the CLI is insecure. Use --password-stdin.
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
The push refers to repository [10.10.204.154:5000/smartbi/smartbi-spark]
9cf77c9fb8fe: Layer already exists
cce65f1de11b: Layer already exists
b51400490fb4: Layer already exists
3d20a4461815: Layer already exists
ae33de3e6191: Layer already exists
2e1a6eaf3dd0: Layer already exists
4826cdad1ef: Layer already exists
V9.6: digest: sha256:bcec681adc015e466a8bac074b56da30cc0c8f1d315dbc41b5de23bd3c58eabe size: 1783
2020-09-24 16:37:03 Load Spark images Finish!
[root@localhost smartbi-spark]#
```

修改成Rancher的内网IP地址

2、停止Spark服务

登陆Rancher控制台，勾选 smartbi-spark-master和 smartbi-spark-worker1 服务，点击暂停编排

smartbi
Default

资源应用商店命名空间成员工具

仪表盘

工作负载负载均衡服务发现PVC

重新部署暂停编辑下载YAML删除选中 2 个工作负载

搜索

状态名称

镜像

Pod 副本数

命名空间 default				
<input type="checkbox"/>	Active	smartbi-engine-experiment	10.10.204.154:5000/smartbi/smartbi-engine-experiment.V9.6 1个 Pod / 创建时间: 3 days ago / Pod 容器重启次数: 0	1
<input type="checkbox"/>	Active	smartbi-engine-service	10.10.204.154:5000/smartbi/smartbi-engine-service.V9.6 1个 Pod / 创建时间: 3 days ago / Pod 容器重启次数: 0	1
<input type="checkbox"/>	Active	smartbi-export	10.10.204.154:5000/smartbi/smartbi-export.V9.6 1个 Pod / 创建时间: 3 days ago / Pod 容器重启次数: 0	1
<input type="checkbox"/>	Active	smartbi-hadoop	10.10.204.154:5000/smartbi/smartbi-hadoop.V9.6 1个 Pod / 创建时间: 3 days ago / Pod 容器重启次数: 0	1
<input type="checkbox"/>	Active	smartbi-infobright	10.10.204.154:5000/smartbi/smartbi-infobright.V9.6 1个 Pod / 创建时间: 3 days ago / Pod 容器重启次数: 0	1
<input type="checkbox"/>	Active	smartbi-mining-pynode	10.10.204.154:5000/smartbi/smartbi-pynode.V9.6 1个 Pod / 创建时间: 3 days ago / Pod 容器重启次数: 0	1
<input type="checkbox"/>	Active	smartbi-mpp	10.10.204.154:5000/smartbi/smartbi-mpp.V9.6 1个 Pod / 创建时间: 3 days ago / Pod 容器重启次数: 0	1
<input type="checkbox"/>	Active	smartbi-mysql	10.10.204.154:5000/smartbi/smartbi-mysql.V9.6 1个 Pod / 创建时间: 3 days ago / Pod 容器重启次数: 0	1
<input type="checkbox"/>	Active	smartbi-proxy	10.10.204.154:5000/smartbi/smartbi-proxy.V9.6 1个 Pod / 创建时间: 3 days ago / Pod 容器重启次数: 0	1
<input type="checkbox"/>	Active	smartbi-redis	10.10.204.154:5000/smartbi/smartbi-redis.V9.6 1个 Pod / 创建时间: 3 days ago / Pod 容器重启次数: 0	1
<input checked="" type="checkbox"/>	Active	smartbi-spark-master	10.10.204.154:5000/smartbi/smartbi-spark.V9.6 1个 Pod / 创建时间: 15 hours ago / Pod 容器重启次数: 0	1
<input checked="" type="checkbox"/>	Active	smartbi-spark-worker1	10.10.204.154:5000/smartbi/smartbi-spark.V9.6 1个 Pod / 创建时间: 15 hours ago / Pod 容器重启次数: 0	1

2. 点击暂停编排

1. 勾选spark的master和work服务

3、更新Spark服务挂载目录

进入<高性能版本安装目录>/smartbi_data/目录，备份原有的Spark服务目录，例如：

```
cd /data/Smartbi_All/smartbi_data/    #
mv smartbi-spark smartbi-spark_bk
```

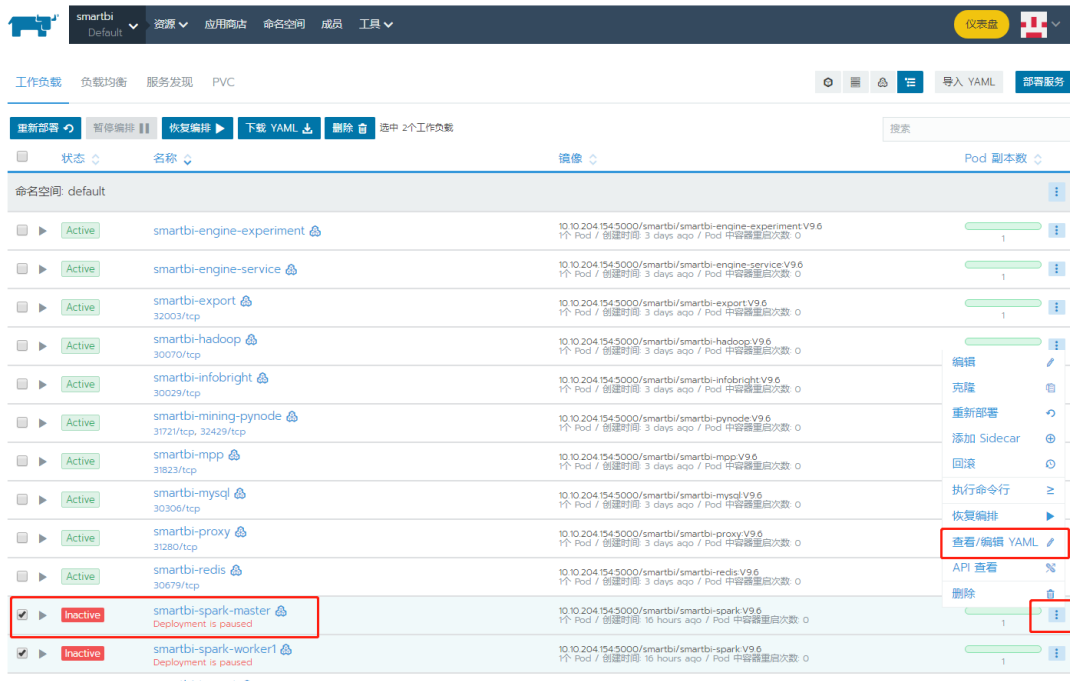
并将新的挂载目录移动到<高性能版本安装目录>/smartbi_data/下

```
mv /opt/smartbi-spark/smartbi-spark  /data/Smartbi_All/smartbi_data/smartbi-spark
```

4、升级Spark版本

登陆Rancher控制台

①选 smartbi-spark-master服务，点击查看/编辑YAML，如下图所示



找到smartbi-spark:V9.0修改成smartbi-spark:V9.6，参考下图：

编辑 YAML: smartbi-spark-master

从文件读取 下载

```
1 apiVersion: apps/v1
2 kind: Deployment
3 metadata:
4   annotations:
5     deployment.kubernetes.io/revision: '4'
6     field.cattle.io/creatorId: user-71455
7     field.cattle.io/publicEndpoints: '[{"addresses":["10.10.204.154"],"port":32410,"protocol":"TCP","serviceName":"default:smartbi-spark-master-nodport","allNodes":true}, {"addresses":["10.10.204.154"],"port":32002,"protocol":"TCP","serviceName":"default:smartbi-spark-master-nodport","allNodes":true}]'
8   labels:
9     kubernetes.io/app: 'v1', 'kind': 'Deployment', 'metadata': {'annotations': {'deployment.kubernetes.io/revision': '2', 'field.cattle.io/creatorId': 'user-71455', 'field.cattle.io/publicEndpoints': '[{"addresses":["10.10.204.154"],"port":32410,"protocol":"TCP","serviceName":"default:smartbi-spark-master-nodport","allNodes":true}, {"addresses":["10.10.204.154"],"port":32306,"protocol":"TCP","serviceName":"default:smartbi-spark-master-nodport","allNodes":true}, {"addresses":["10.10.204.154"],"port":32002,"protocol":"TCP","serviceName":"default:smartbi-spark-master-nodport","allNodes":true}]', 'creationTimestamp': '2018-12-27T15:41:19Z', 'generation': 8, 'labels': {'workload.user.cattle.io/workloadselector': 'deployment-default-smartbi-spark-master'}, 'name': 'smartbi-spark-master', 'namespace': 'default', 'resourceVersion': '10664', 'selfLink': '/api/v1/namespaces/default/deployments/smartbi-spark-master', 'uid': 'd0cc832-09ed-11e9-9b21-06506945a1f1'}, 'spec': {'progressDeadlineSeconds': '900', 'replicas': 1, 'revisionHistoryLimit': 10, 'selector': {'matchLabels': {'workload.user.cattle.io/workloadselector': 'deployment-default-smartbi-spark-master'}, 'strategy': 'rollingupdate': {'maxSurge': 1, 'maxUnavailable': 0, 'type': 'RollingUpdate'}, 'template': {'metadata': {'annotations': {'field.cattle.io/ports': '[[{"containerPort": 7077, "displayName": "smartbi-spark-master-nodport"}, {"kind": "NodePort", "name": "7077tcp01", "protocol": "TCP", "sourcePort": 10}, {"containerPort": 4040, "displayName": "smartbi-spark-master-nodport"}, {"kind": "NodePort", "name": "4040tcp01", "protocol": "TCP", "sourcePort": 10}, {"containerPort": 8080, "displayName": "smartbi-spark-master-nodport"}, {"kind": "NodePort", "name": "8080tcp20021", "protocol": "TCP", "sourcePort": 32002}]]', 'creationTimestamp': null, 'labels': {'workload.user.cattle.io/workloadselector': 'deployment-default-smartbi-spark-master'}, 'spec': {'affinity': {}, 'containers': [{'command': ['./entrypoint.sh', 'master', 'smartbi-spark-master'], 'image': '10.10.204.154:5000/smartbi-spark:v9.6', 'imagePullPolicy': 'IfNotPresent', 'name': 'smartbi-spark-master'}, {'command': ['./entrypoint.sh', 'worker', 'smartbi-spark-worker'], 'image': '10.10.204.154:5000/smartbi-spark:v9.6', 'imagePullPolicy': 'IfNotPresent', 'name': 'smartbi-spark-worker'}], 'securityContext': {'allowPrivilegeEscalation': false, 'capabilities': {}, 'privileged': false, 'readOnlyRootFilesystem': false, 'runAsNonRoot': false, 'stdin': true, 'terminationMessagePath': '/dev/termination-log', 'terminationMessagePolicy': 'File', 'tty': true, 'volumeMounts': [{'mountPath': '/spark', 'name': 'vol1'}]}, 'dnsPolicy': 'ClusterFirst', 'hostname': 'smartbi-spark-master', 'nodeSelector': {'kubernetes.io/hostname': 'kubernetes-master-1'}, 'restartPolicy': 'Always', 'schedulerName': 'default-scheduler', 'securityContext': {}, 'terminationGracePeriodSeconds': 130, 'volumes': [{'hostPath': {'path': '/data/smartbi-all/smartbi-data/smartbi-spark', 'type': 'File'}, 'name': 'vol1'}]}, 'status': {'availableReplicas': 1, 'conditions': [{'lastTransitionTime': '2018-12-27T15:41:19Z', 'lastUpdateTime': '2018-12-27T17:22:20Z', 'message': 'ReplicaSet "smartbi-spark-master-741696cd6" has successfully progressed.', 'reason': 'NewReplicaSetAvailable', 'status': 'True', 'type': 'Progressing'}, {'lastTransitionTime': '2018-12-27T17:59:36Z', 'lastUpdateTime': '2018-12-27T17:59:36Z', 'message': 'Deployment has minimum availability.', 'reason': 'MinimumReplicasAvailable', 'status': 'True', 'type': 'Available'}], 'observedGeneration': 8, 'readyReplicas': 1, 'updatedReplicas': 1}}]
10   creationTimestamp: '2020-09-23T10:03:30Z'
11   generation: 12
12   labels:
```

编辑 YAML: smartbi-spark-master

从文件读取 下载

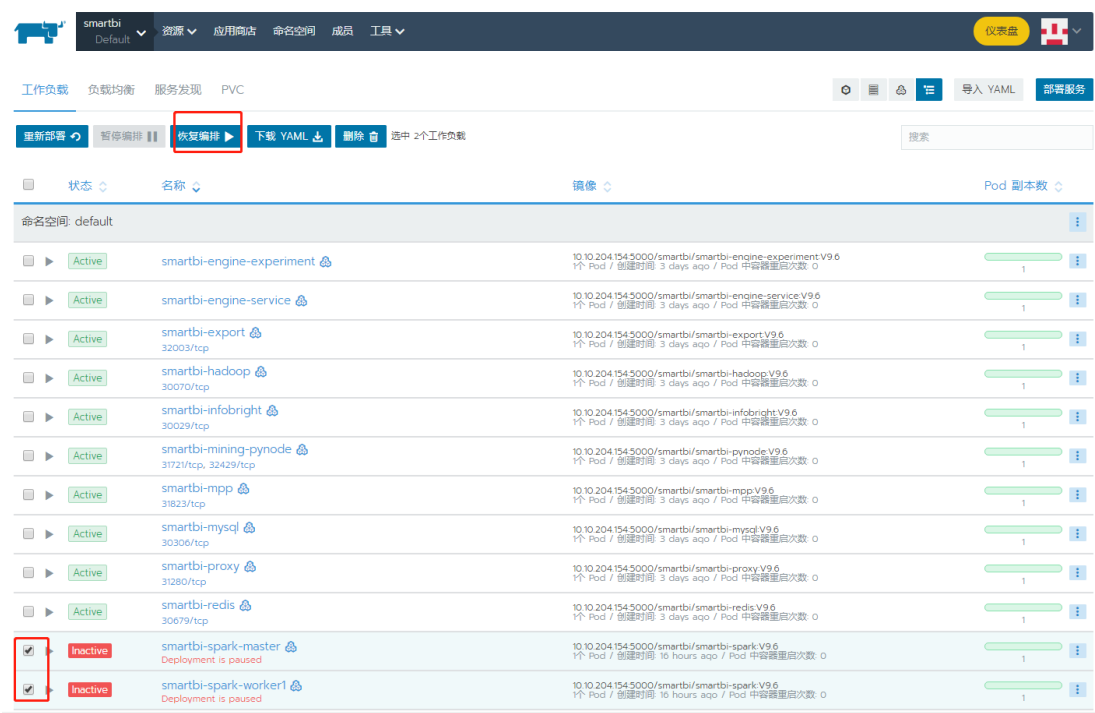
```
200   labels:
201     workload.user.cattle.io/workloadselector: deployment-default-smartbi-spark-master
202   spec:
203     affinity:
204       nodeAffinity:
205         requiredDuringSchedulingIgnoredDuringExecution:
206           nodeSelectorTerms:
207             - matchExpressions:
208               - key: kubernetes.io/hostname
209                 operator: In
210                 values:
211                   - localhost
212           - localhost
213     containers:
214       - command:
215         - ./entrypoint.sh
216         - master
217         - smartbi-spark-master
218         image: 10.10.204.154:5000/smartbi/smartbi-spark:v9.6
219         imagePullPolicy: IfNotPresent
220         name: smartbi-spark-master
221         ports:
222         - containerPort: 7077
223           name: 7077tcp1
224           protocol: TCP
225         - containerPort: 4040
226           name: 4040tcp1
227           protocol: TCP
228         - containerPort: 8080
229           name: 8080tcp20021
230           protocol: TCP
231         resources: {}
232         securityContext:
```

复制到剪贴板

修改完成后点击保存

②选择 smartbi-spark-worker1 服务，参考smartbi-spark-master服务修改方法，将配置文件中的smartbi-spark:V9.0修改成smartbi-spark:V9.6，保存


③勾选smartbi-spark-master服务和 smartbi-spark-worker1 服务，点击恢复编排，等待容器启动成功。



④服务启动成功后可查看对应日志是否有报错。

浏览器打开<http://IP:32002/> 或者<http://IP:31002/> 检查Spark版本

Browser address bar: <http://10.10.204.154:32002/>



Spark Master at spark://smartbi-spark-master:7077

URL: spark://smartbi-spark-master:7077
Alive Workers: 1
Cores in use: 1 Total, 1 Used
Memory in use: 8.0 GiB Total, 8.0 GiB Used
Resources in use:
Applications: 1 Running, 0 Completed
Drivers: 0 Running, 0 Completed
Status: ALIVE

Workers (1)

Worker Id	Address	Sta
worker-20200923185027-10.42.0.48-39196	10.42.0.48:39196	AL

Running Applications (1)

Application ID	Name	Cores	Memory per Executor	Res
app-20200924101446-0000	(kill) Smartbi Mining	1	8.0 GiB	

Completed Applications (0)

Application ID	Name	Cores	Memory per Executor	Resources Per Executor
----------------	------	-------	---------------------	------------------------

登陆smartbi，点击数据挖掘，运行挖掘实验查看是否运行成功，运行成功则说明Spark服务更新成功。