

MIGRATE NODE-BOUND INSTANCES TO BIND-FREE CONFIGURATION

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RAW CONTENT

*** - TBD depending on service

1. stop gargantua & database pods (scale-down)

2. create PVC : <instance>-database-pvc

storage class : longhorn-default

request storage : 1Gb ***

3. create PVC : <instance>-home-pvc

storage class : longhorn-default

request storage : 1Gb ***

4. create PVC : <instance>-storage-pvc

storage class : longhorn-default

request storage : 4Gb ***

5. create pod

name : <instance>-migrate

node scheduling : <select proper node>

go to : pod -> storage

go to : old database pod, and copy 'path on node'

add volume bind-mount

volume name : db-old

path on node : <copied from old database>

volume type : 'an existing directory'

add volume persistent volume claim

volume name : db-new

```

persistent volume claim : <instance>-database-pvc

go to : old gargantua pod, and copy 'path on node' from 'home'

add volume bind-mount

volume name : home-old

path on node : <copied from old gargantua pod>

volume type : 'an existing directory'

add volume persistent volume claim

volume name : home-new

persistent volume claim : <instance>-home-pvc

go to : old gargantua pod, and copy 'path on node' from 'storage'

add volume bind-mount

volume name : storage-old

path on node : <copied from old gargantua pod>

volume type : 'an existing directory'

add volume persistent volume claim

volume name : storage-new

persistent volume claim : <instance>-storage-pvc

go to : container-0

container name : <instance>-busybox

container image : busybox

command : sleep 10d

stdin : yes

go to : container-0 -> storage

select volume : db-old

mount point : /db/old

select volume : db-new

mount point : /db/new

select volume : home-old

mount point : /home/old

```

select volume : home-new

mount point : /home/new

select volume : storage-old

mount point : /home/old

select volume : home-new

mount point : /home/new

create !

open shell

cp -r -p -v /db/old/* /db/new

cp -r -p -v /home/old/* /home/new

cp -r -p -v /storage/old/* /storage/new

check with : du -h -d 1

destroy pod <instance>-migrate

6. go to statefulsets <instance>-database

edit config

go to : pod -> storage

delete bind-mount volume <instance>-database-pv

add volume persistent volume claim

volume name : <instance>-database-pv

presistent volume claim : <instance>-database-pvc

go to : postgres -> storage

copy old mount point path

delete old volume <instance>-database-pv

create volume : <instance>-database-pv

mount point : /var/lib/postgresql/data

subpath in volume : data

7. go to statefulsets <instance>-gargantua

edit config

go to : pod -> storage

delete bind-mount volume <instance>-home-pv

add volume persistent volume claim

volume name : <instance>-home-pv

presistent volume claim : <instance>-home-pvc

delete bind-mount volume <instance>-storage-pv

add volume persistent volume claim

volume name : <instance>-storage-pv

presistent volume claim : <instance>-storage-pvc

delete bind-mount volume <instance>-modules-pv

add volume persistent volume claim

volume name : <instance>-modules-pv

presistent volume claim : <instance>-modules-pvc

read-only

delete bind-mount volume cloud-properties

add volume config map

volume name : cloud-properties

config map : gargantua-cloud-properties

optional : no

go to : gargantua -> storage

copy old home mount point path

delete old volume <instance>-home-pv

create volume : <instance>-home-pv

mount point : /srv/siatel/home

copy old storage mount point path

delete old volume <instance>-storage-pv

create volume : <instance>-storage-pv

mount point : /srv/siatel/storage

copy old shared mount point path

delete old volume <instance>-clusterhub

create volume : <instance>-shared-pv

mount point : /srv/siatel/modules

read-only

copy old cloud.properties path

delete old volume cloud-properties

create volume : cloud-properties

mount point : /srv/cloud.properties

subpath : cloud.properties

read-only

save !

8. scale out +1

check server ok

9. scale in -1 (database & gargantua)

remove node0 affinity (database & gargantua)

RAW CONTENT 2

apiVersion: v1

kind: PersistentVolumeClaim

metadata:

name: pm-database-pvc

namespace: clients

spec:

accessModes:

- ReadWriteMany

resources:

requests:

storage: 1Gi

storageClassName: longhorn-default

apiVersion: v1

kind: PersistentVolumeClaim

metadata:

name: pm-home-pvc

namespace: clients

spec:

accessModes:

- ReadWriteMany

resources:

requests:

storage: 1Gi

storageClassName: longhorn-default

apiVersion: v1

```

kind: PersistentVolumeClaim

metadata:

  name: pm-storage-pvc

  namespace: clients

spec:

  accessModes:

    - ReadWriteMany

  resources:

    requests:

      storage: 4Gi

  storageClassName: longhorn-default

```

```

apiVersion: v1

kind: Pod

metadata:

  name: pm-migrate

  namespace: clients

spec:

  affinity: {}

  containers:

    - args:

      - 1d

      command:

        - sleep

      image: busybox

      name: pm-busybox

      stdin: true

      volumeMounts:

        - mountPath: /db/old

```

name: db-old

- mountPath: /db/new

name: db-new

- mountPath: /home/old

name: home-old

- mountPath: /home/new

name: home-new

- mountPath: /storage/old

name: storage-old

- mountPath: /storage/new

name: storage-new

nodeName: node0.siatel.com

volumes:

- hostPath:

path: /srv/pv/clients/mj/database

type: Directory

name: db-old

- hostPath:

path: /srv/pv/clients/mj/home

type: Directory

name: home-old

- hostPath:

path: /srv/pv/clients/mj/storage

type: Directory

name: storage-old

- name: db-new

persistentVolumeClaim:

claimName: pm-database-pvc

- name: home-new

persistentVolumeClaim:

claimName: pm-home-pvc

- name: storage-new

persistentVolumeClaim:

claimName: pm-storage-pvc

PREPARE SHARED MODULES PVC

apiVersion: v1

kind: Pod

metadata:

name: projects-migrate

namespace: projects

spec:

containers:

- args:

- 1d

command:

- sleep

image: busybox

imagePullPolicy: IfNotPresent

name: container-0

stdin: true

volumeMounts:

- mountPath: /modules/new

name: modules-new

- mountPath: /modules/old

name: modules-old

nodeName: node0.siatel.com

volumes:

- name: modules-new

persistentVolumeClaim:

claimName: projects-modules-pvc

- hostPath:

path: /srv/pv/shared

type: Directory

name: modules-old