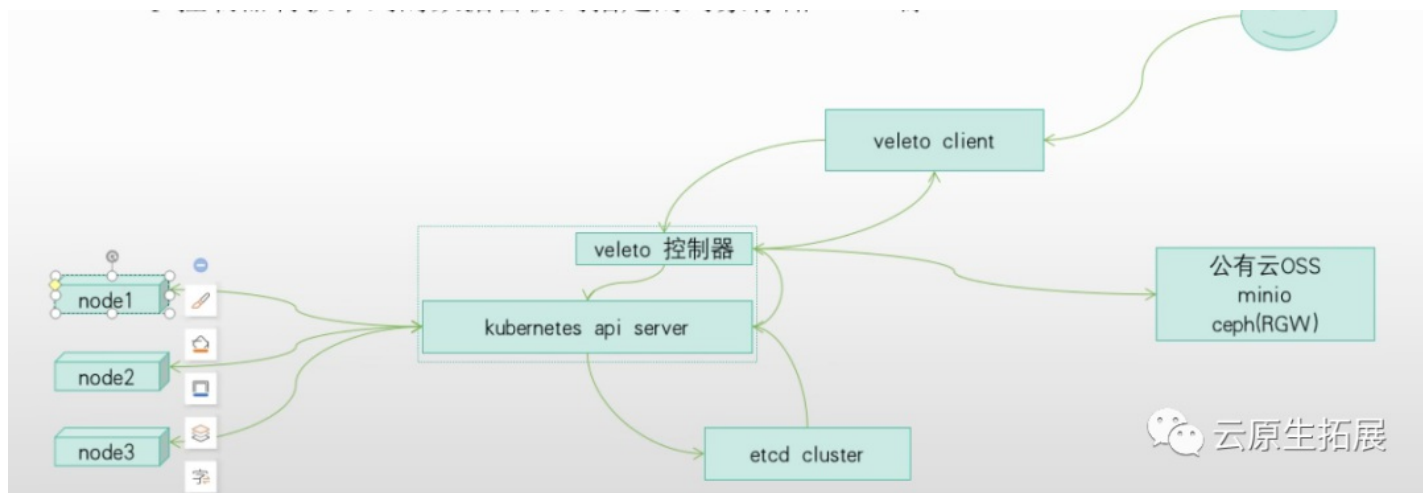**Kubernetes 系列（二十五）基于 velero & MinIO 对 kubernetes 进行备份和恢复**
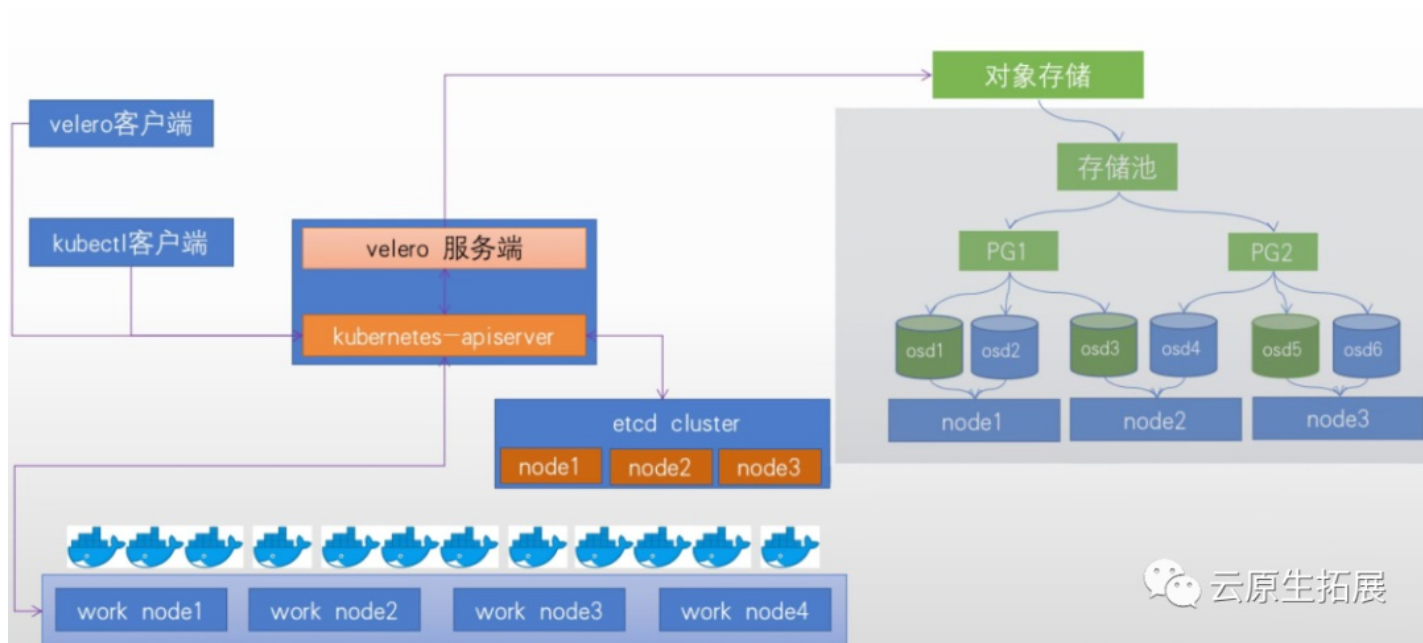
Velero 介绍

Velero 是由vmware公司团队研发开源工具，用于安全地备份、恢复和迁移 Kubernetes 集群和持久卷。它可以在本地和公共云中运行。Velero 由一个在您的 Kubernetes 集群中作为部署运行的服务器进程和一个命令行界面 (CLI) 组成，DevOps 团队和平台操作员可通过该界面配置计划备份、触发临时备份、执行恢复等。官网地址：https://velero.io/

Velero备份流程：

整体架构：

准备 MinIO 存储环境

安装 MinIO

```
docker pull minio/minio:latest
docker run -p 9000:9000 -p 9090:9090 \
--net=host \
--name minio \
-d --restart=always \
-e "MINIO_ACCESS_KEY=admin" \
-e "MINIO_SECRET_KEY=minio123" \
-v /home/minio/data:/data \
-v /home/minio/config:/root/.minio \
minio/minio server \
/data --console-address ":9090" -address ":9000"
[root@easzlab-minio-01 ~]# netstat -tnlp
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address          Foreign Address        State      PID/Program name
tcp       0      0 127.0.0.1:40963        0.0.0.0:*              LISTEN     737/containerd
tcp       0      0 127.0.0.53:53          0.0.0.0:*              LISTEN     669/systemd-resolve
tcp       0      0 0.0.0.0:22             0.0.0.0:*              LISTEN     830/sshd: /usr/sbin
tcp       0      0 127.0.0.1:6010         0.0.0.0:*              LISTEN     1437/sshd: root@pts
tcp6      0      0 :::9000                :::*                  LISTEN     5020/minio
tcp6      0      0 :::22                  :::*                  LISTEN     830/sshd: /usr/sbin
tcp6      0      0 ::1:6010               :::*                  LISTEN     1437/sshd: root@pts
tcp6      0      0 :::9090                :::*                  LISTEN     5020/minio
[root@easzlab-minio-01 ~]#
```
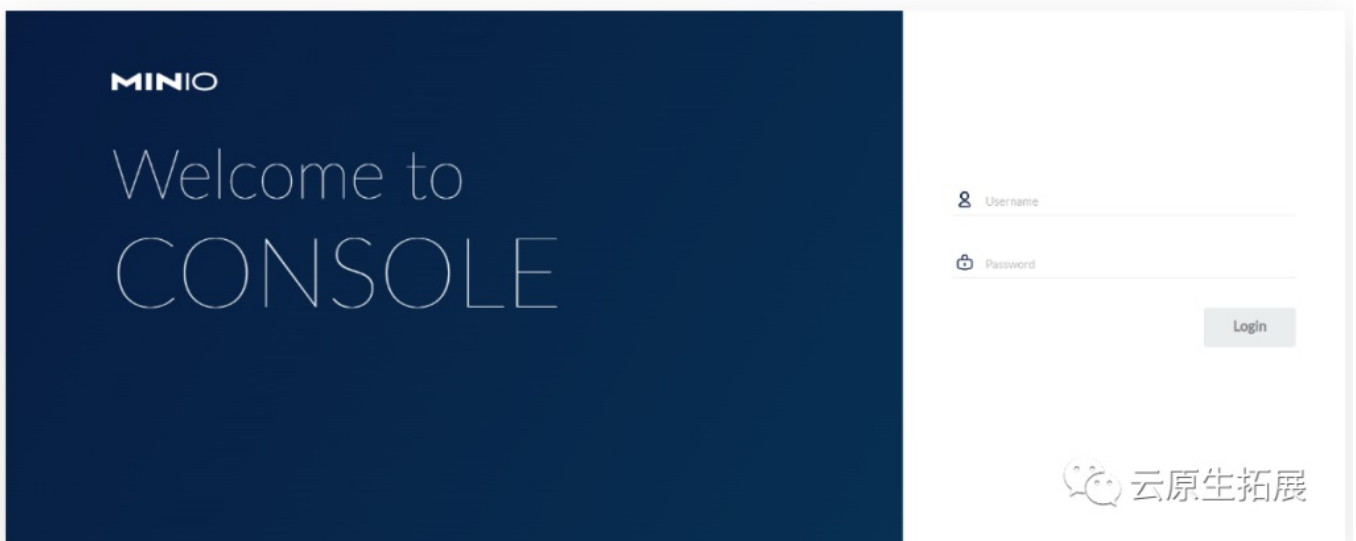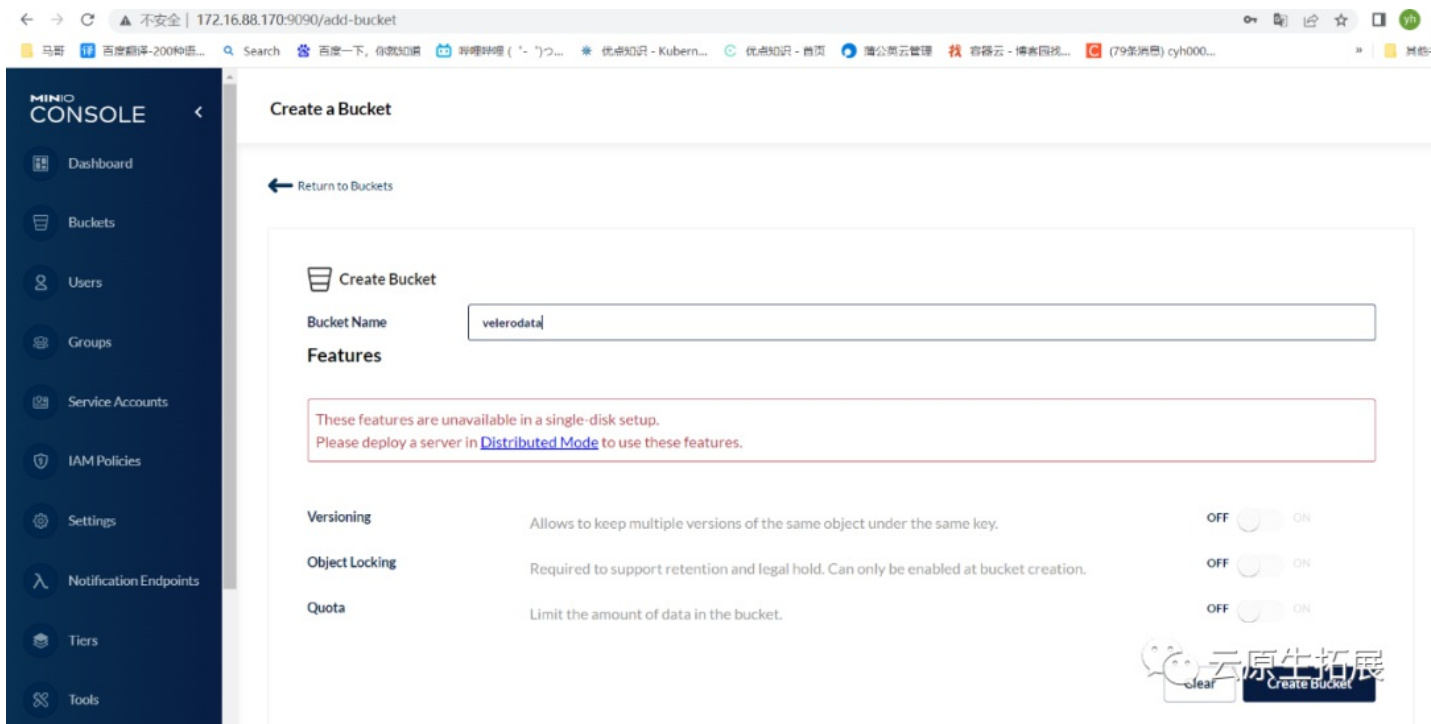
admin minio123

创建 velerodata buckets

在master-01节点部署velero

```
下载安装包
wget https://github.com/vmware-tanzu/velero/releases/download/v1.8.1/velero-v1.8.1-linux-amd64.tar.gz
tar -xvzf velero-v1.8.1-linux-amd64.tar.gz
mv velero /usr/local/bin
```

```
root@easzlab-k8s-master-01:~# velero version
Client:
        Version: v1.8.1
        Git commit: 18ee078dffd9345df610e0ca9f61b31124e93f50
<error getting server version: no matches for kind "ServerStatusRequest" in versi... v1
root@easzlab-k8s-master-01:~#
```

配置 velero 认证环境

```
mkdir /data/velero -p
cd /data/velero
root@easzlab-k8s-master-01:/data/velero# cat velero-auth.txt
[default]
aws_access_key_id = admin
aws_secret_access_key = minio123
```

将 velero 安装到 K8s 集群

```
root@easzlab-k8s-master-01:/data/velero# kubectl create ns velero-system
namespace/velero-system created
root@easzlab-k8s-master-01:/data/velero# velero --kubeconfig /root/.kube/config \
> install \
> --provider aws \
> --plugins velero/velero-plugin-for-aws:v1.3.1 \
> --bucket velerodata \
> --secret-file ./velero-auth.txt \
> --use-volume-snapshots=false \
> --namespace velero-system \
> --backup-location-config region=minio,s3ForcePathStyle="true",s3Url=http://172.16.88.170:9000
CustomResourceDefinition/backups.velero.io: attempting to create resource
CustomResourceDefinition/backups.velero.io: attempting to create resource client
```

```
CustomResourceDefinition/backups.velero.io: created
CustomResourceDefinition/backupstoragelocations.velero.io: attempting to create resource
CustomResourceDefinition/backupstoragelocations.velero.io: attempting to create resource client
CustomResourceDefinition/backupstoragelocations.velero.io: created
CustomResourceDefinition/deletebackuprequests.velero.io: attempting to create resource
CustomResourceDefinition/deletebackuprequests.velero.io: attempting to create resource client
CustomResourceDefinition/deletebackuprequests.velero.io: created
CustomResourceDefinition/downloadrequests.velero.io: attempting to create resource
CustomResourceDefinition/downloadrequests.velero.io: attempting to create resource client
CustomResourceDefinition/downloadrequests.velero.io: created
CustomResourceDefinition/podvolumebackups.velero.io: attempting to create resource
CustomResourceDefinition/podvolumebackups.velero.io: attempting to create resource client
CustomResourceDefinition/podvolumebackups.velero.io: created
CustomResourceDefinition/podvolumerestores.velero.io: attempting to create resource
CustomResourceDefinition/podvolumerestores.velero.io: attempting to create resource client
CustomResourceDefinition/podvolumerestores.velero.io: created
CustomResourceDefinition/resticrepositories.velero.io: attempting to create resource
CustomResourceDefinition/resticrepositories.velero.io: attempting to create resource client
CustomResourceDefinition/resticrepositories.velero.io: created
CustomResourceDefinition/restores.velero.io: attempting to create resource
CustomResourceDefinition/restores.velero.io: attempting to create resource client
CustomResourceDefinition/restores.velero.io: created
CustomResourceDefinition/schedules.velero.io: attempting to create resource
CustomResourceDefinition/schedules.velero.io: attempting to create resource client
CustomResourceDefinition/schedules.velero.io: created
CustomResourceDefinition/serverstatusrequests.velero.io: attempting to create resource
CustomResourceDefinition/serverstatusrequests.velero.io: attempting to create resource client
CustomResourceDefinition/serverstatusrequests.velero.io: created
CustomResourceDefinition/volumesnapshotlocations.velero.io: attempting to create resource
CustomResourceDefinition/volumesnapshotlocations.velero.io: attempting to create resource client
CustomResourceDefinition/volumesnapshotlocations.velero.io: created
Waiting for resources to be ready in cluster...
Namespace/velero-system: attempting to create resource
Namespace/velero-system: attempting to create resource client
Namespace/velero-system: already exists, proceeding
Namespace/velero-system: created
ClusterRoleBinding/velero-velero-system: attempting to create resource
ClusterRoleBinding/velero-velero-system: attempting to create resource client
ClusterRoleBinding/velero-velero-system: created
ServiceAccount/velero: attempting to create resource
ServiceAccount/velero: attempting to create resource client
ServiceAccount/velero: created
Secret/cloud-credentials: attempting to create resource
Secret/cloud-credentials: attempting to create resource client
Secret/cloud-credentials: created
BackupStorageLocation/default: attempting to create resource
BackupStorageLocation/default: attempting to create resource client
BackupStorageLocation/default: created
Deployment/velero: attempting to create resource
Deployment/velero: attempting to create resource client
Deployment/velero: created
Velero is installed! ⎈ Use 'kubectl logs deployment/velero -n velero-system' to view the status.
root@easzlab-k8s-master-01:/data/velero#
```

```
root@easzlab-k8s-master-01:/data/velero# kubectl get pod -A
NAMESPACE              NAME                                                 READY   STATUS    RESTARTS         AGE
kube-system            calico-kube-controllers-5c8bb696bb-fxbmr             1/1     Running   1 (2d7h ago)     6d18h
kube-system            calico-node-2qtfm                                    1/1     Running   1 (2d7h ago)     6d18h
kube-system            calico-node-8l78t                                    1/1     Running   1 (2d7h ago)     6d18h
kube-system            calico-node-9b75m                                    1/1     Running   1 (2d7h ago)     6d18h
kube-system            calico-node-k75jh                                    1/1     Running   1 (2d7h ago)     6d18h
kube-system            calico-node-kmbhs                                    1/1     Running   1 (2d7h ago)     6d18h
kube-system            calico-node-lxfk9                                    1/1     Running   1 (2d7h ago)     6d18h
kube-system            coredns-69548bdd5f-6df7j                             1/1     Running   1 (2d7h ago)     6d6h
kube-system            coredns-69548bdd5f-nl5qc                             1/1     Running   1 (2d7h ago)     6d6h
kubernetes-dashboard   dashboard-metrics-scraper-8c47d4b5d-2d275            1/1     Running   1 (2d7h ago)     6d6h
kubernetes-dashboard   kubernetes-dashboard-5676d8b865-6l8n8                1/1     Running   1 (2d7h ago)     6d6h
linux70                linux70-tomcat-app1-deployment-5d666575cc-kbjhk      1/1     Running   1 (2d7h ago)     4d7h
myserver               linux70-nginx-deployment-55dc5fdcf9-58ll2            1/1     Running   1 (2d7h ago)     4d7h
myserver               linux70-nginx-deployment-55dc5fdcf9-6xcjk            1/1     Running   1 (2d7h ago)     4d7h
myserver               linux70-nginx-deployment-55dc5fdcf9-cxg5m            1/1     Running   1 (2d7h ago)     4d7h
myserver               linux70-nginx-deployment-55dc5fdcf9-gv2gk            1/1     Running   1 (2d7h ago)     4d7h
velero-system          velero-858b9459f9-c7qc9                              1/1     Running   0                2m29s
root@easzlab-k8s-master-01:/data/velero#
```
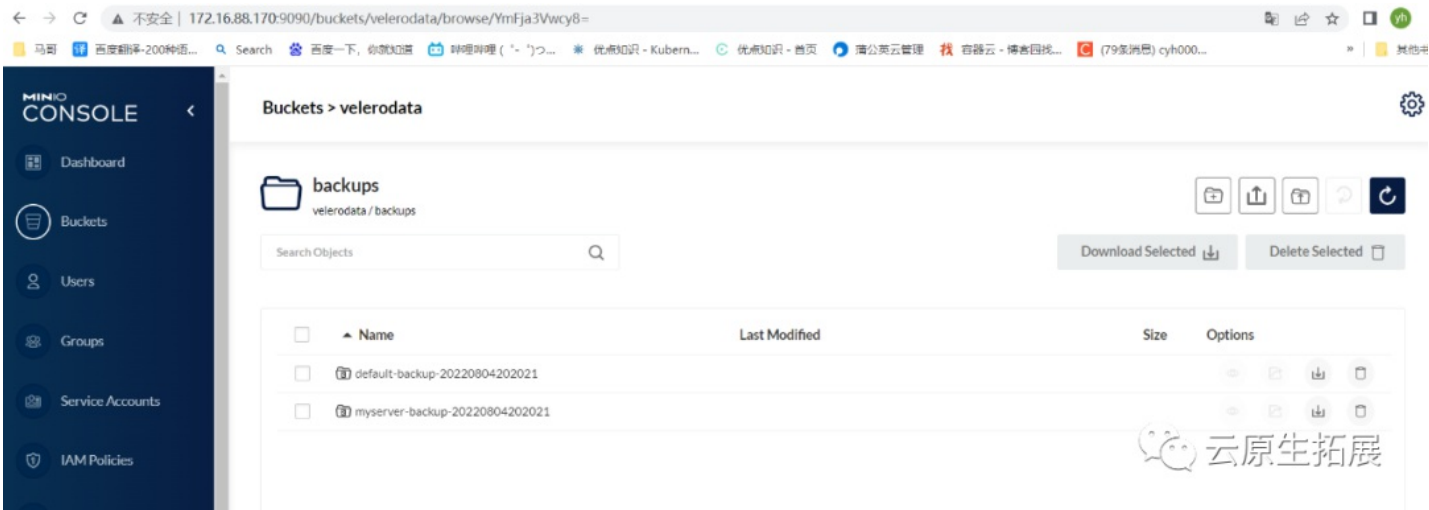
测试备份功能

```
root@easzlab-k8s-master-01:~# DATE=`date +%Y%m%d%H%M%S`
root@easzlab-k8s-master-01:~# velero backup create default-backup-${DATE} --include-cluster-resources=true  --include-namespaces k
Backup request "default-backup-20220804202021" submitted successfully.
Run `velero backup describe default-backup-20220804202021` or `velero backup logs default-backup-20220804202021` for more details.
root@easzlab-k8s-master-01:~#
root@easzlab-k8s-master-01:~# velero backup create myserver-backup-${DATE} --include-cluster-resources=true --include-namespaces m
Backup request "myserver-backup-20220804202021" submitted successfully.
Run `velero backup describe myserver-backup-20220804202021` or `velero backup logs myserver-backup-20220804202021` for more detail
root@easzlab-k8s-master-01:~#
```

检查是否备份成功

使用脚本备份

```
root@easzlab-k8s-master-01:~# cat velero-k8s-backup.sh
#!/bin/bash
NS_NAME=$(kubectl get ns |awk '{if(NR>1){print $1}}')
DATE=$(date +%Y%m%d%H%M%S)
cd /data/velero/

for i in $NS_NAME;do
  velero backup create ${i}-ns-backup-${DATE} \
  --include-cluster-resources=true \
  --include-namespaces ${i} \
  --kubeconfig=/root/.kube/config \
  --namespace velero-system
done
root@easzlab-k8s-master-01:~#
root@easzlab-k8s-master-01:~# bash velero-k8s-backup.sh
Backup request "default-ns-backup-20220805165331" submitted successfully.
Run `velero backup describe default-ns-backup-20220805165331` or `velero backup logs default-ns-backup-20220805165331` for more de
Backup request "kube-node-lease-ns-backup-20220805165331" submitted successfully.
Run `velero backup describe kube-node-lease-ns-backup-20220805165331` or `velero backup logs kube-node-lease-ns-backup-20220805165
Backup request "kube-public-ns-backup-20220805165331" submitted successfully.
Run `velero backup describe kube-public-ns-backup-20220805165331` or `velero backup logs kube-public-ns-backup-20220805165331` for
Backup request "kube-system-ns-backup-20220805165331" submitted successfully.
Run `velero backup describe kube-system-ns-backup-20220805165331` or `velero backup logs kube-system-ns-backup-20220805165331` for
Backup request "kubernetes-dashboard-ns-backup-20220805165331" submitted successfully.
Run `velero backup describe kubernetes-dashboard-ns-backup-20220805165331` or `velero backup logs kubernetes-dashboard-ns-backup-2(
Backup request "linux70-ns-backup-20220805165331" submitted successfully.
Run `velero backup describe linux70-ns-backup-20220805165331` or `velero backup logs linux70-ns-backup-20220805165331` for more de
Backup request "myserver-ns-backup-20220805165331" submitted successfully.
Run `velero backup describe myserver-ns-backup-20220805165331` or `velero backup logs myserver-ns-backup-20220805165331` for more (
Backup request "velero-system-ns-backup-20220805165331" submitted successfully.
Run `velero backup describe velero-system-ns-backup-20220805165331` or `velero backup logs velero-system-ns-backup-20220805165331`
root@easzlab-k8s-master-01:~#
```

恢复备份测试

删除备份 pod

```
root@easzlab-deploy:~/pod-test# kubectl get pod -A
NAMESPACE              NAME                                              READY   STATUS    RESTARTS          AGE
kube-system            calico-kube-controllers-5c8bb696bb-fxbmr          1/1     Running   1 (2d10h ago)     6d21h
kube-system            calico-node-2qtfm                                 1/1     Running   1 (2d10h ago)     6d21h
kube-system            calico-node-8l78t                                 1/1     Running   1 (2d10h ago)     6d21h
kube-system            calico-node-9b75m                                 1/1     Running   1 (2d10h ago)     6d21h
kube-system            calico-node-k75jh                                 1/1     Running   1 (2d10h ago)     6d21h
kube-system            calico-node-kmbhs                                 1/1     Running   1 (2d10h ago)     6d21h
kube-system            calico-node-lxfk9                                 1/1     Running   1 (2d10h ago)     6d21h
kube-system            coredns-69548bdd5f-6df7j                          1/1     Running   1 (2d10h ago)     6d9h
kube-system            coredns-69548bdd5f-nl5qc                          1/1     Running   1 (2d10h ago)     6d9h
kubernetes-dashboard   dashboard-metrics-scraper-8c47d4b5d-2d275         1/1     Running   1 (2d10h ago)     6d9h
kubernetes-dashboard   kubernetes-dashboard-5676d8b865-6l8n8             1/1     Running   1 (2d10h ago)     6d9h
linux70                linux70-tomcat-app1-deployment-5d666575cc-kbjhk   1/1     Running   1 (2d10h ago)     4d10h
myserver               linux70-nginx-deployment-55dc5fdcf9-58ll2         1/1     Running   1 (2d10h ago)     4d10h
myserver               linux70-nginx-deployment-55dc5fdcf9-6xcjk         1/1     Running   1 (2d10h ago)     4d10h
myserver               linux70-nginx-deployment-55dc5fdcf9-cxg5m         1/1     Running   1 (2d10h ago)     4d10h
myserver               linux70-nginx-deployment-55dc5fdcf9-gv2gk         1/1     Running   1 (2d10h ago)     4d10h
velero-system          velero-858b9459f9-5mxxx                           1/1     Running   0                 23m
root@easzlab-deploy:~/pod-test# kubectl delete -f  nginx.yaml
deployment.apps "linux70-nginx-deployment" deleted
service "linux70-nginx-service" deleted
root@easzlab-deploy:~/pod-test# kubectl get pod -A
NAMESPACE              NAME                                              READY   STATUS    RESTARTS          AGE
kube-system            calico-kube-controllers-5c8bb696bb-fxbmr          1/1     Running   1 (2d10h ago)     6d21h
kube-system            calico-node-2qtfm                                 1/1     Running   1 (2d10h ago)     6d21h
kube-system            calico-node-8l78t                                 1/1     Running   1 (2d10h ago)     6d21h
kube-system            calico-node-9b75m                                 1/1     Running   1 (2d10h ago)     6d21h
kube-system            calico-node-k75jh                                 1/1     Running   1 (2d10h ago)     6d21h
kube-system            calico-node-kmbhs                                 1/1     Running   1 (2d10h ago)     6d21h
kube-system            calico-node-lxfk9                                 1/1     Running   1 (2d10h ago)     6d21h
kube-system            coredns-69548bdd5f-6df7j                          1/1     Running   1 (2d10h ago)     6d9h
kube-system            coredns-69548bdd5f-nl5qc                          1/1     Running   1 (2d10h ago)     6d9h
kubernetes-dashboard   dashboard-metrics-scraper-8c47d4b5d-2d275         1/1     Running   1 (2d10h ago)     6d9h
kubernetes-dashboard   kubernetes-dashboard-5676d8b865-6l8n8             1/1     Running   1 (2d10h ago)     6d9h
linux70                linux70-tomcat-app1-deployment-5d666575cc-kbjhk   1/1     Running   1 (2d10h ago)     4d10h
velero-system          velero-858b9459f9-5mxxx                           1/1     Running   0                 24m
root@easzlab-deploy:~/pod-test#
```

使用备份数据进行恢复

```
root@easzlab-k8s-master-01:~# velero restore create --from-backup myserver-backup-20220804202021 --wait --kubeconfig=/root/.kube/c
Restore request "myserver-backup-20220804202021-20220804203424" submitted successfully.
Waiting for restore to complete. You may safely press ctrl-c to stop waiting - your restore will continue in the background.
....................
Restore completed with status: Completed. You may check for more information using the commands `velero restore describe myserver-
root@easzlab-k8s-master-01:~# kubectl get pod -A
NAMESPACE              NAME                                              READY   STATUS            RESTARTS         AGE
kube-system            calico-kube-controllers-5c8bb696bb-fxbmr          1/1     Running           1 (2d10h ago)    6d21h
kube-system            calico-node-2qtfm                                 1/1     Running           1 (2d10h ago)    6d21h
kube-system            calico-node-8l78t                                 1/1     Running           1 (2d10h ago)    6d21h
kube-system            calico-node-9b75m                                 1/1     Running           1 (2d10h ago)    6d21h
kube-system            calico-node-k75jh                                 1/1     Running           1 (2d10h ago)    6d21h
kube-system            calico-node-kmbhs                                 1/1     Running           1 (2d10h ago)    6d21h
kube-system            calico-node-lxfk9                                 1/1     Running           1 (2d10h ago)    6d21h
kube-system            coredns-69548bdd5f-6df7j                          1/1     Running           1 (2d10h ago)    6d9h
kube-system            coredns-69548bdd5f-nl5qc                          1/1     Running           1 (2d10h ago)    6d9h
kubernetes-dashboard   dashboard-metrics-scraper-8c47d4b5d-2d275         1/1     Running           1 (2d10h ago)    6d9h
kubernetes-dashboard   kubernetes-dashboard-5676d8b865-6l8n8             1/1     Running           1 (2d10h ago)    6d9h
linux70                linux70-tomcat-app1-deployment-5d666575cc-kbjhk   1/1     Running           1 (2d10h ago)    4d10h
myserver               linux70-nginx-deployment-55dc5fdcf9-58ll2         0/1     ContainerCreating 0                36s
myserver               linux70-nginx-deployment-55dc5fdcf9-6xcjk         1/1     Running           0                36s
myserver               linux70-nginx-deployment-55dc5fdcf9-cxg5m         0/1     ContainerCreating 0                36s
myserver               linux70-nginx-deployment-55dc5fdcf9-gv2gk         1/1     Running           0                36s
velero-system          velero-858b9459f9-5mxxx                           1/1     Running           0                25m
root@easzlab-k8s-master-01:~# kubectl get pod -A
NAMESPACE              NAME                                              READY   STATUS    RESTARTS        AGE
kube-system            calico-kube-controllers-5c8bb696bb-fxbmr          1/1     Running   1 (2d10h ago)   6d21h
kube-system            calico-node-2qtfm                                 1/1     Running   1 (2d10h ago)   6d21h
kube-system            calico-node-8l78t                                 1/1     Running   1 (2d10h ago)   6d21h
kube-system            calico-node-9b75m                                 1/1     Running   1 (2d10h ago)   6d21h
kube-system            calico-node-k75jh                                 1/1     Running   1 (2d10h ago)   6d21h
kube-system            calico-node-kmbhs                                 1/1     Running   1 (2d10h ago)   6d21h
kube-system            calico-node-lxfk9                                 1/1     Running   1 (2d10h ago)   6d21h
kube-system            coredns-69548bdd5f-6df7j                          1/1     Running   1 (2d10h ago)   6d9h
kube-system            coredns-69548bdd5f-nl5qc                          1/1     Running   1 (2d10h ago)   6d9h
kubernetes-dashboard   dashboard-metrics-scraper-8c47d4b5d-2d275         1/1     Running   1 (2d10h ago)   6d9h
kubernetes-dashboard   kubernetes-dashboard-5676d8b865-6l8n8             1/1     Running   1 (2d10h ago)   6d9h
linux70                linux70-tomcat-app1-deployment-5d666575cc-kbjhk   1/1     Running   1 (2d10h ago)   4d10h
myserver               linux70-nginx-deployment-55dc5fdcf9-58ll2         1/1     Running   0               2m6s
myserver               linux70-nginx-deployment-55dc5fdcf9-6xcjk         1/1     Running   0               2m6s
myserver               linux70-nginx-deployment-55dc5fdcf9-cxg5m         1/1     Running   0               2m6s
myserver               linux70-nginx-deployment-55dc5fdcf9-gv2gk         1/1     Running   0               2m6s
velero-system          velero-858b9459f9-5mxxx                           1/1     Running   0               27m
root@easzlab-k8s-master-01:~#
```

卸载安装

```
root@easzlab-k8s-master-01:~# kubectl get pod -A
NAMESPACE             NAME                                          READY   STATUS    RESTARTS         AGE
kube-system           calico-kube-controllers-5c8bb696bb-fxbmr      1/1     Running   1 (2d7h ago)     6d18h
kube-system           calico-node-2qtfm                             1/1     Running   1 (2d7h ago)     6d18h
kube-system           calico-node-8l78t                             1/1     Running   1 (2d7h ago)     6d18h
kube-system           calico-node-9b75m                             1/1     Running   1 (2d7h ago)     6d18h
kube-system           calico-node-k75jh                             1/1     Running   1 (2d7h ago)     6d18h
kube-system           calico-node-kmbhs                             1/1     Running   1 (2d7h ago)     6d18h
kube-system           calico-node-lxfk9                             1/1     Running   1 (2d7h ago)     6d18h
kube-system           coredns-69548bdd5f-6df7j                      1/1     Running   1 (2d7h ago)     6d7h
kube-system           coredns-69548bdd5f-nl5qc                      1/1     Running   1 (2d7h ago)     6d7h
kubernetes-dashboard  dashboard-metrics-scraper-8c47d4b5d-2d275     1/1     Running   1 (2d7h ago)     6d7h
kubernetes-dashboard  kubernetes-dashboard-5676d8b865-6l8n8         1/1     Running   1 (2d7h ago)     6d7h
linux70               linux70-tomcat-app1-deployment-5d666575cc-kbjhk  1/1  Running   1 (2d7h ago)     4d7h
myserver              linux70-nginx-deployment-55dc5fdcf9-58ll2     1/1     Running   1 (2d7h ago)     4d7h
myserver              linux70-nginx-deployment-55dc5fdcf9-6xcjk     1/1     Running   1 (2d7h ago)     4d7h
myserver              linux70-nginx-deployment-55dc5fdcf9-cxg5m     1/1     Running   1 (2d7h ago)     4d7h
myserver              linux70-nginx-deployment-55dc5fdcf9-gv2gk     1/1     Running   1 (2d7h ago)     4d7h
velero-system         velero-858b9459f9-c7qc9                       1/1     Running   0                15m
root@easzlab-k8s-master-01:~#
root@easzlab-k8s-master-01:~# velero --kubeconfig /root/.kube/config uninstall --namespace velero-system
You are about to uninstall Velero.
Are you sure you want to continue (Y/N)? y
Waiting for velero namespace "velero-system" to be deleted
.......................................................................
Velero namespace "velero-system" deleted
Velero uninstalled ⎈
root@easzlab-k8s-master-01:~# kubectl get pod -A
NAMESPACE             NAME                                          READY   STATUS    RESTARTS         AGE
kube-system           calico-kube-controllers-5c8bb696bb-fxbmr      1/1     Running   1 (2d9h ago)     6d21h
kube-system           calico-node-2qtfm                             1/1     Running   1 (2d9h ago)     6d21h
kube-system           calico-node-8l78t                             1/1     Running   1 (2d9h ago)     6d21h
kube-system           calico-node-9b75m                             1/1     Running   1 (2d9h ago)     6d21h
kube-system           calico-node-k75jh                             1/1     Running   1 (2d9h ago)     6d21h
kube-system           calico-node-kmbhs                             1/1     Running   1 (2d9h ago)     6d21h
kube-system           calico-node-lxfk9                             1/1     Running   1 (2d9h ago)     6d21h
kube-system           coredns-69548bdd5f-6df7j                      1/1     Running   1 (2d9h ago)     6d9h
kube-system           coredns-69548bdd5f-nl5qc                      1/1     Running   1 (2d9h ago)     6d9h
kubernetes-dashboard  dashboard-metrics-scraper-8c47d4b5d-2d275     1/1     Running   1 (2d9h ago)     6d9h
kubernetes-dashboard  kubernetes-dashboard-5676d8b865-6l8n8         1/1     Running   1 (2d9h ago)     6d9h
linux70               linux70-tomcat-app1-deployment-5d666575cc-kbjhk  1/1  Running   1 (2d9h ago)     4d9h
myserver              linux70-nginx-deployment-55dc5fdcf9-58ll2     1/1     Running   1 (2d9h ago)     4d9h
myserver              linux70-nginx-deployment-55dc5fdcf9-6xcjk     1/1     Running   1 (2d9h ago)     4d9h
myserver              linux70-nginx-deployment-55dc5fdcf9-cxg5m     1/1     Running   1 (2d9h ago)     4d9h
myserver              linux70-nginx-deployment-55dc5fdcf9-gv2gk     1/1     Running   1 (2d9h ago)     4d9h
root@easzlab-k8s-master-01:~#
```

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