Contents

[Create a job base image 1](#_Toc14356394)

[Create Persistent Volume Claim 1](#_Toc14356395)

[Create a schedule job to backup 2](#_Toc14356396)

[Restore from a file 6](#_Toc14356397)

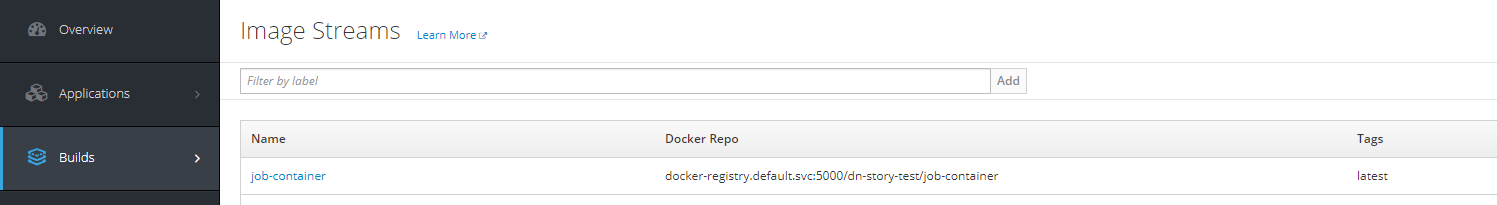
# Create a job base image

1. Create image using build config via command line:

**oc apply -f <path to template folder>\base\_container\_job\_dn\_story\_test.yaml**

Then build it in Openshift or from command line

**oc start-build dn-story-container –n dn-story-test**



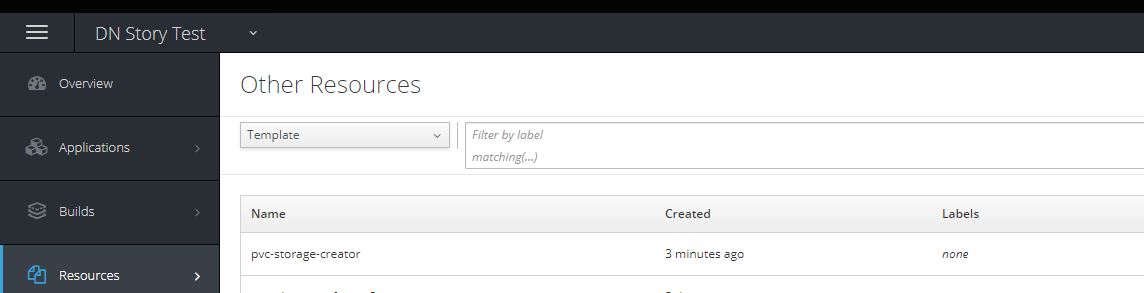
# Create Persistent Volume Claim

This PVC will store backup file of schedule job

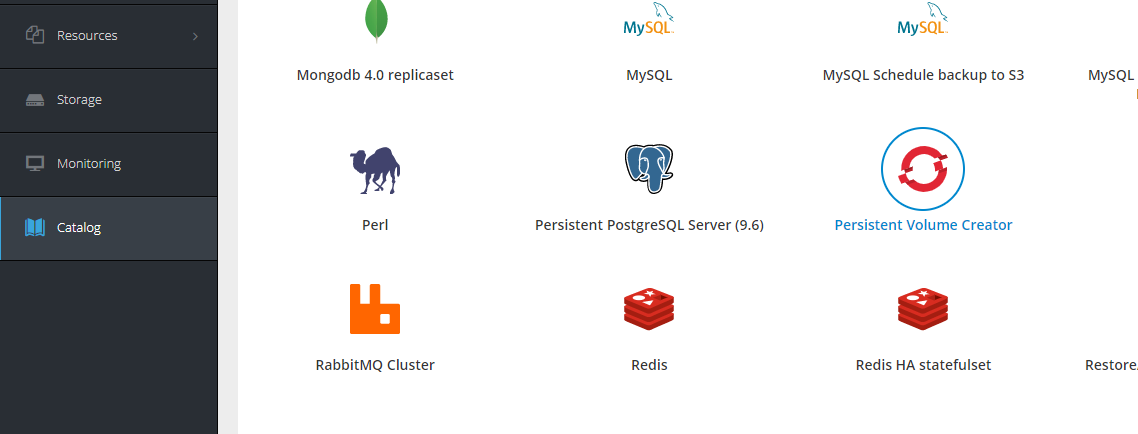
1. Create PVC using yaml via command line:

**oc apply -f <path to template folder>\base\_container\_job\_dn\_story\_test.yaml**

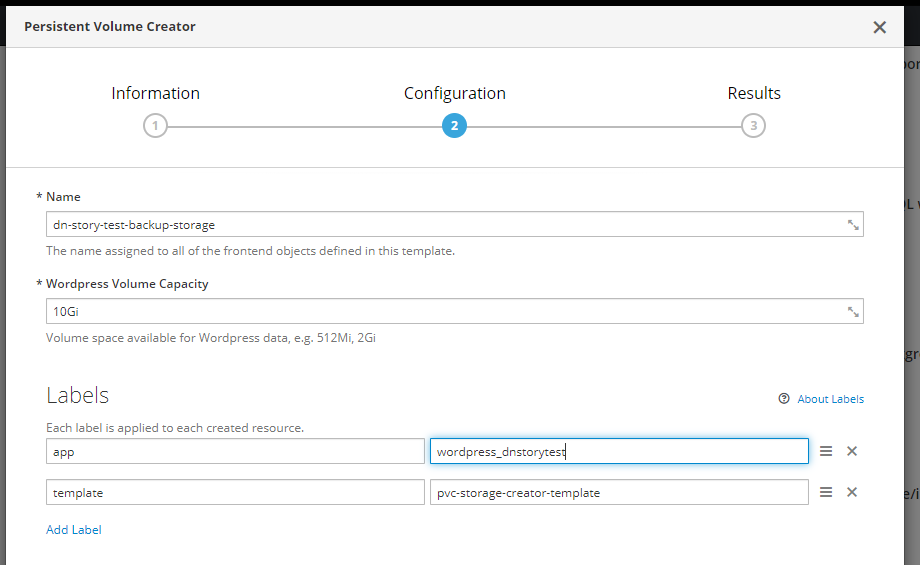
It should then appear in the template resources list.



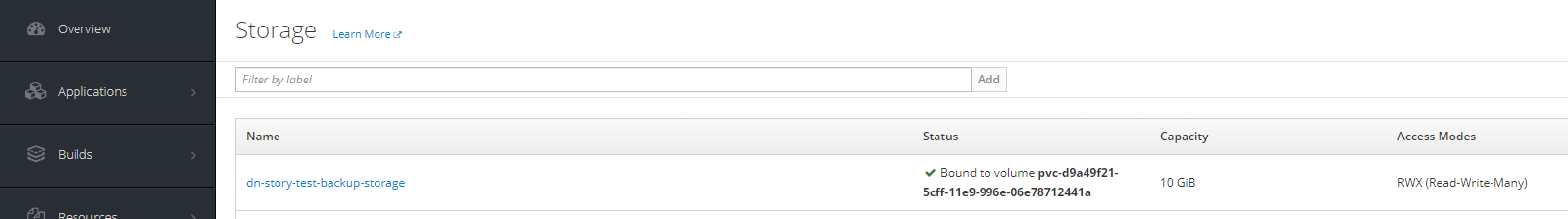
And catalog list



1. Click on the template in the Catalog, fill in the info and start experiencing



1. After created, we can see it in Storage tab

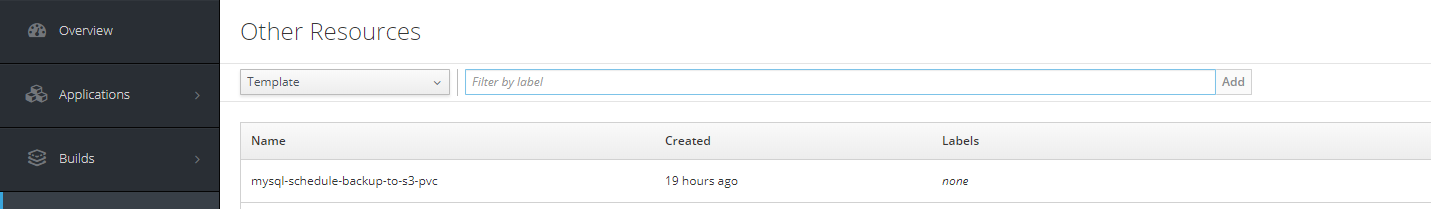


# Create a schedule job to backup

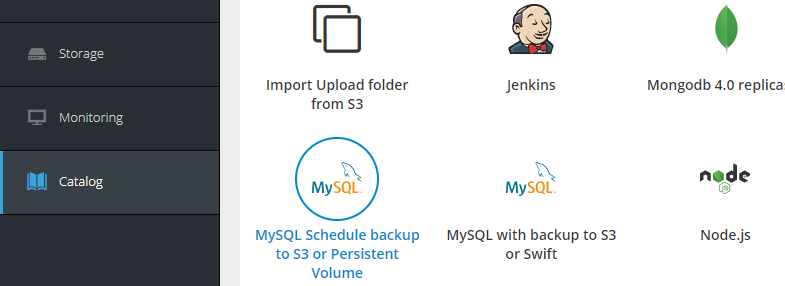
1. Create resources using template via command line:

**oc create -f <path to template folder>\mysql-schedule-backup-to-s3-pvc.yaml**

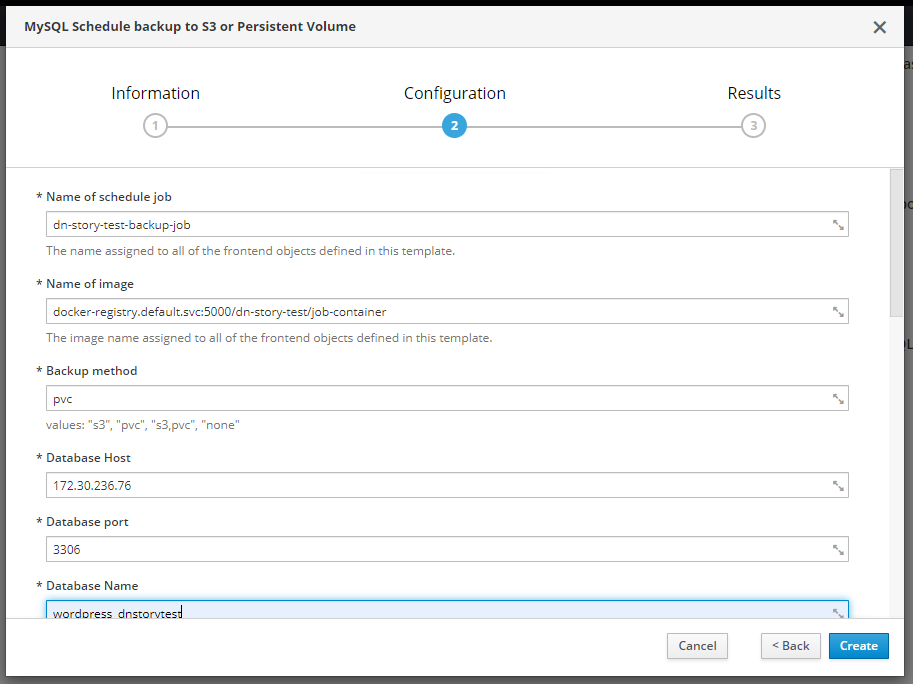
It should then appear in the template resources list.

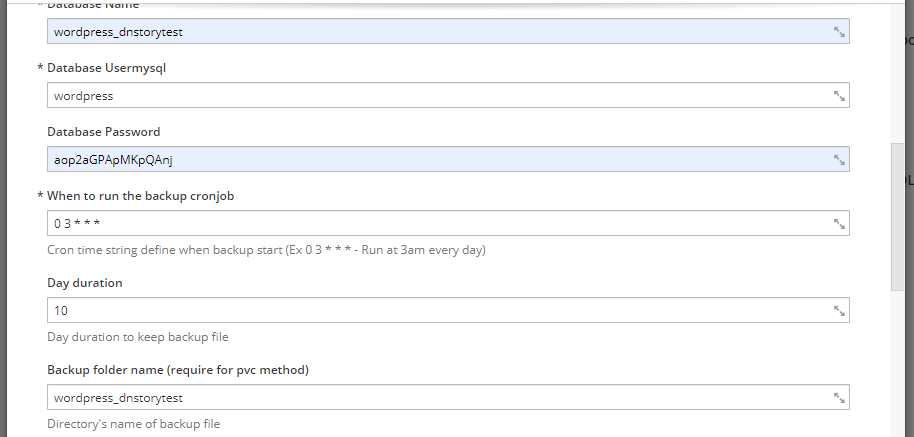


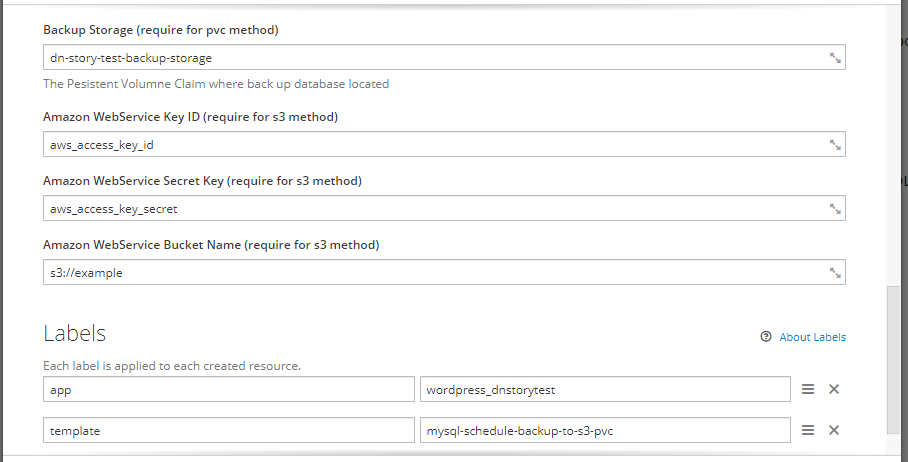
And catalog list

****

1. Click on the template in the Catalog, fill in the info and start experiencing



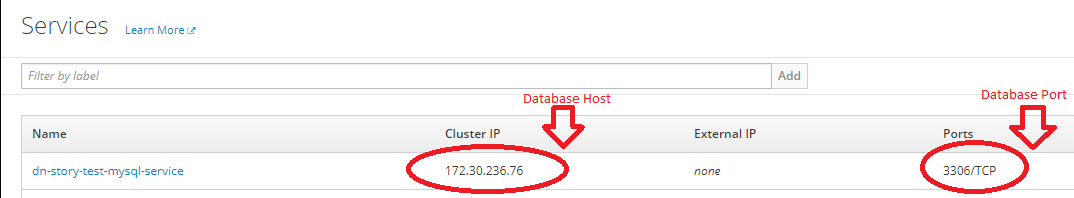




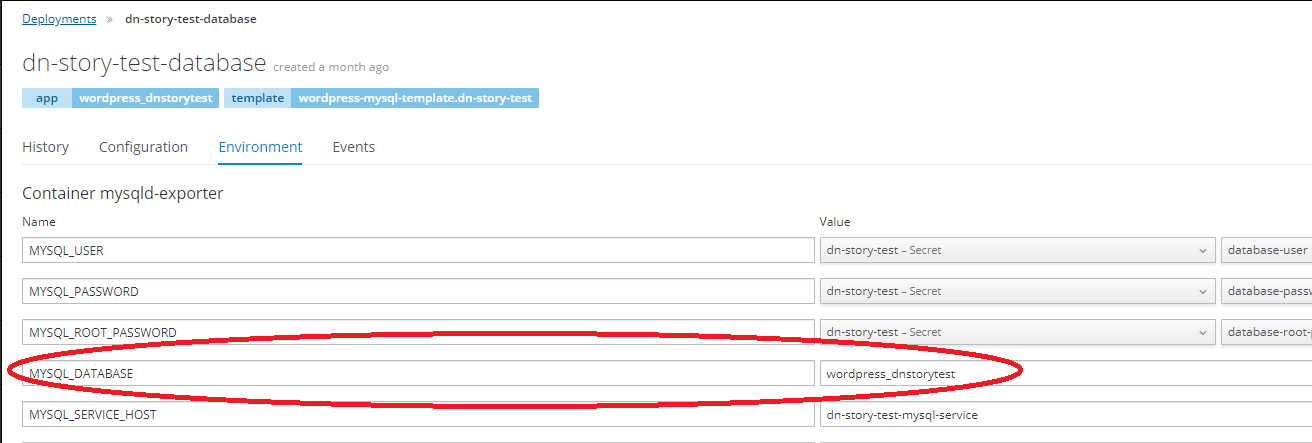
* ***Name of image***: This (image) has been built in the “Create job base image” section.
* ***Backup method***: This field will provide method we will use to store sql file.
  + S3: Store data in Amazon S3 Service
  + PVC: Store data in Persistent Volume Claim

We can fill more than one method for backup to all method provided

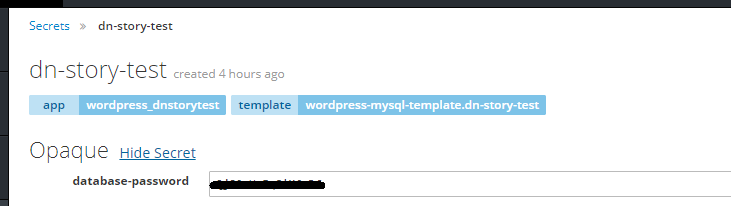
* ***Database Host*** and ***Database port*** get from Service which created:



* ***Database Name***: this field can get from Deployments

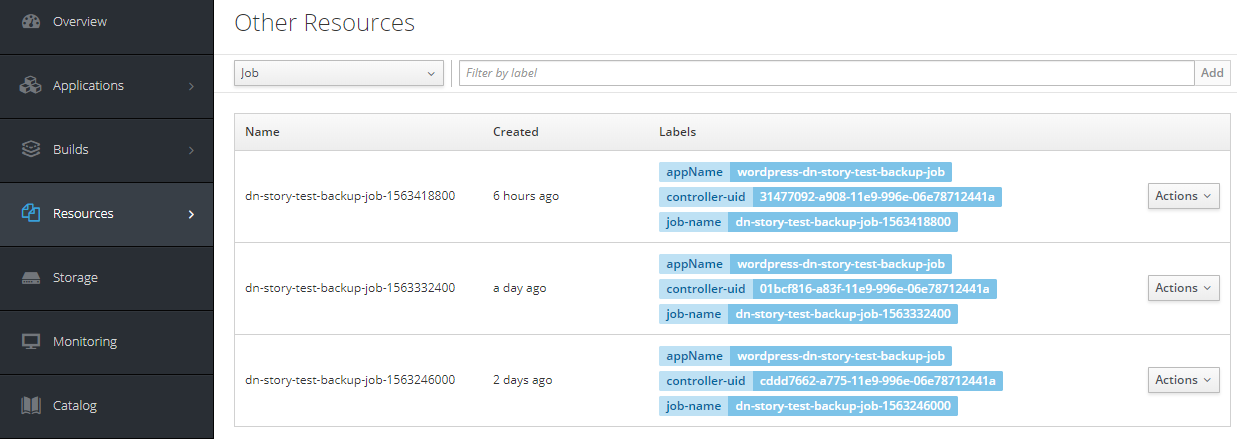


* ***Database Password***: this field get from secret



* ***Day duration***: if sql files older than this day, script will remove them.
* ***Backup folder name***: this is a folder where store sql file after backup. In PVC backup, path to this folder will be: **“/data/backup/< Backup folder name >”**
* ***Backup Storage***: **this field only need when using pvc method**. This value is the name of storage which created from “Create Persistent Volume Claim” section
* ***Amazon WebService Access Key ID & Amazon WebService Secret Key***: these field are the values provided to access AWS S3 services. Reference: <https://docs.aws.amazon.com/general/latest/gr/managing-aws-access-keys.html>
* ***Amazon WebService Bucket Name***: : this path is the path of folder will create backup folder and store sql file in this.

1. You will be able to see the job instances later on after it run.

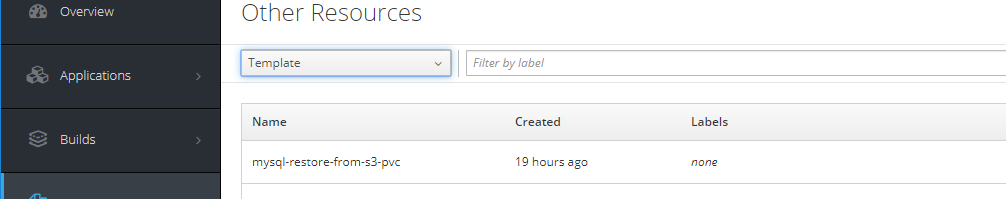


# Restore from a file

1. Create resources using template via command line:

**oc create -f <path to template folder>\mysql-restore-from-s3-pvc.yaml**

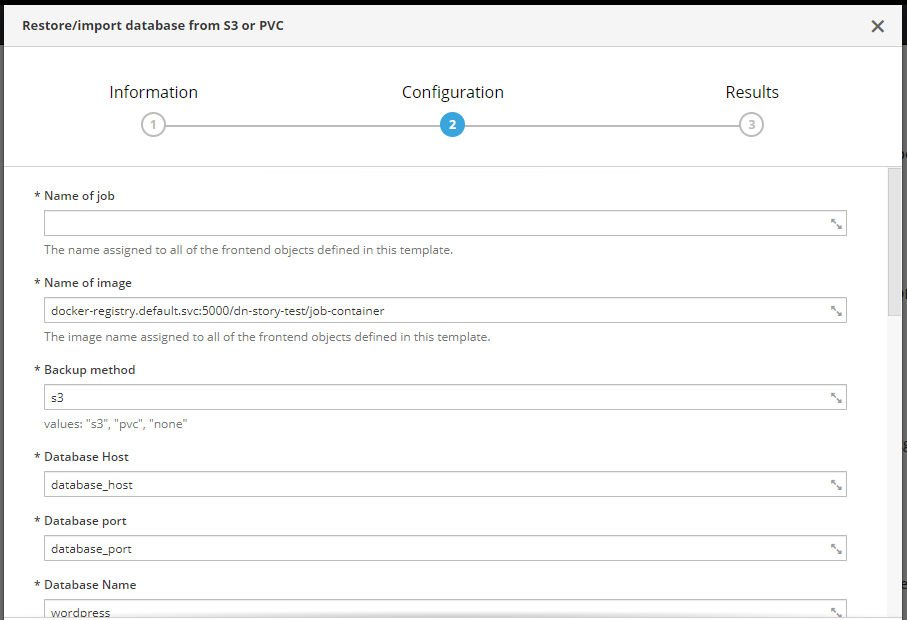
It should then appear in the template resources list.

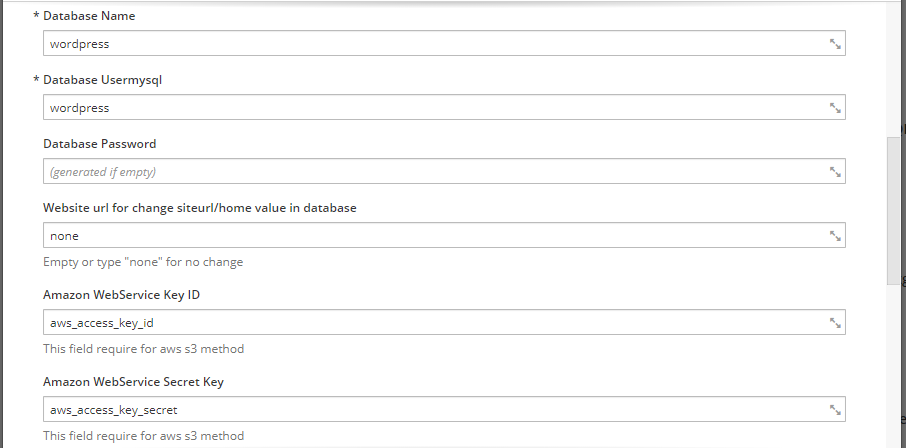


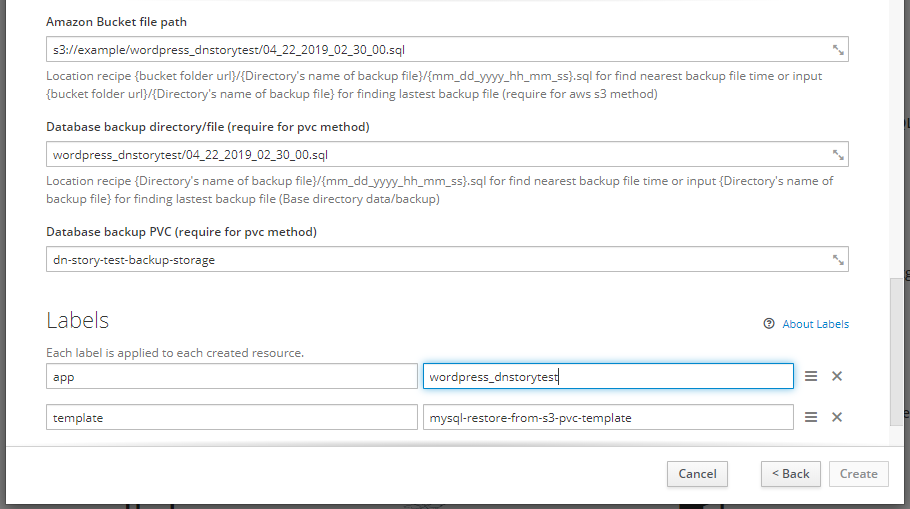
And catalog list



1. Click on the template in the Catalog, fill in the info and start experiencing







* ***Name of image***: This (image) has been built in the “Create job base image” section.
* ***Backup method***: This field will provide method we will use to store sql file.
  + S3: Store data in Amazon S3 Service
  + PVC: Store data in Persistent Volume Claim

**This job only accept one method per execution**

* ***Database backup PVC***: **this field only need when using pvc method**. This value is the name of storage which created from “Create Persistent Volume Claim” section

Optional Section:

* Restore with amazon s3 method
  + Restore with specific file

***Amazon Bucket file path***: fill this field with full path of sql file.

If this file cannot be found, the script will analysis path and find other sql file based on correct format you enter. If your path is not correct format, this job will not execute.

* + Restore latest file

***Amazon Bucket file path***: fill this field to the folder contain sql files. The script will access this folder and find the lastest file in this folder

* Restore with Pesistent Volume method
  + Restore with specific file location

***Database backup directory/file:*** fill this field with full path of sql file.

If this file cannot be found, the script will separate file name and the rest. The rest will added to “/data/backup/" and the script will find sql file after analysis file name based on correct format you enter. If your path is not correct format, this job will not execute.

* + Restore latest file

***Database backup directory/file:*** fill this field to the folder contain sql files. The script will access “/data/backup/< dir backup provided >” and find the lastest file in this directory.