

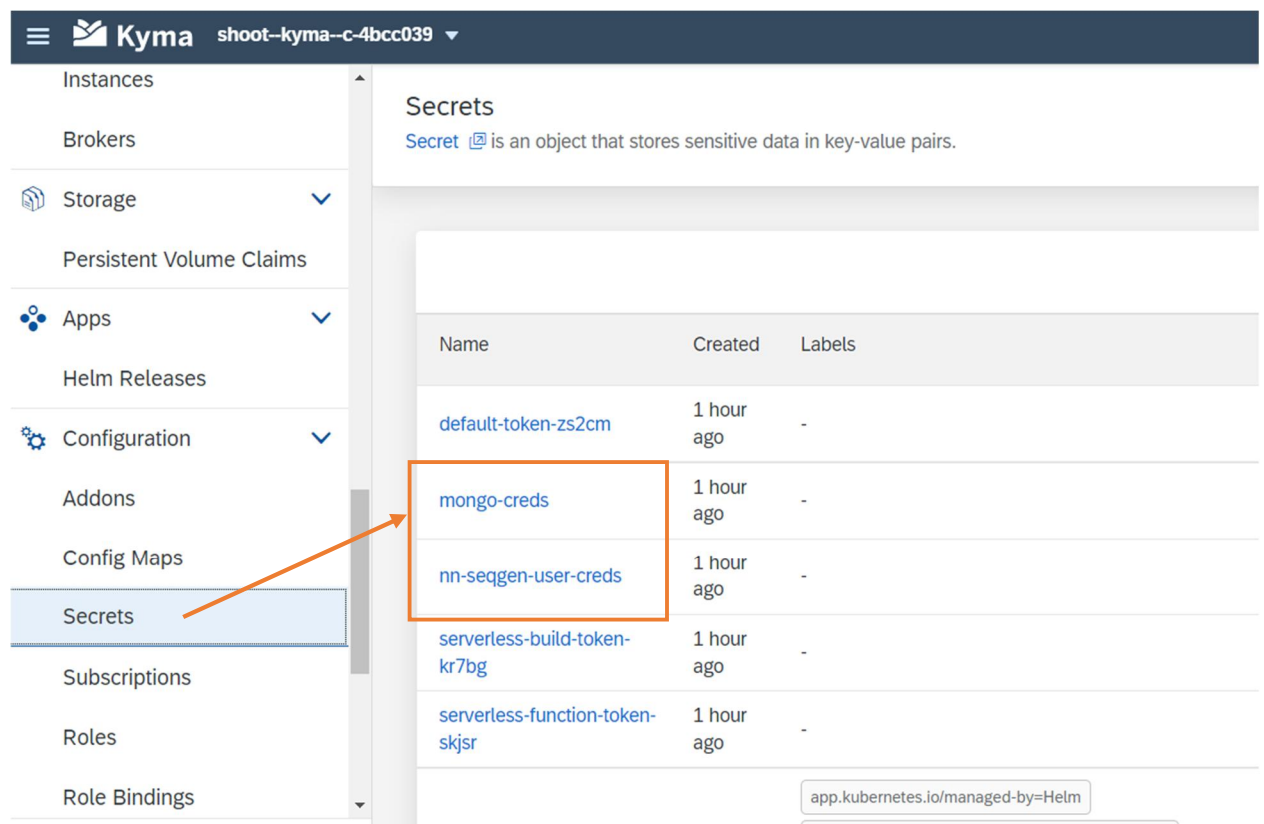
Kubernetes Secrets

A Secret is an object that contains sensitive data such as a password, a token, or a key. Using a Secret means that you don't need to include confidential data in your application code. Secret values are base64-encoded.

Open DMC_NextNumber_InAppExtensions/batch-nn-mongo-db/code_solution directory, contains two YAML files with secrets:

- mongodb-secrets.yaml
- nn-seqgen-secrets.yaml

The result of their deployment can be found at the Secrets screen in Kyma Console UI.



- mongodb-secrets.yaml defines the user name and password is used to login to MongoDB instance.

apiVersion: v1

data:

password: cGFzc3dvcmQxMjM= #password123

username: YWRtaW51c2Vy #adminuser

kind: Secret

metadata:

name: mongo-creds

Here is an example of the mongosh command where we use the same user name and password:

`mongosh --host mongo-nodeport-svc --port 27017 -u adminuser -p password123`

- nn-seqgen-secrets.yaml defines the user name and password for the “ident-db” MongoDB database. Secret values are base64-encoded.

apiVersion: v1

data:

password: cGFzc3dvcmQxMjMONTY3ODIA #password123456789@

username: bm5fc2VxZ2VuX3VzZXI= #nn_seqgen_user

kind: Secret

metadata:

name: nn-seqgen-user-creds

“nn-seqgen” serverless function uses username and password to connect to MongoDB from Node JS.

User nn_seqgen_user was created at “ident-db” MongoDB database using the following command:

```
db.createUser( {
  user: "nn_seqgen_user",
  pwd: "password123456789@",
  roles: [ { role: "readWrite", db: "ident-db" }, { role: 'dbOwner', db: 'ident-db' } ]
})
```

Here is an example of how we refer to this user name and password in Environment Variables in “nn-seqgen” serverless function. Source for such Environment Variable is “SECRET”.

Variable Name	Value	Source Controlled By	Source	Key
PATTERN	→ YYYYDDMMLLNNNN	-	CUSTOM	N/A
RESET_MODE	→ DAY	-	CUSTOM	N/A
NUMBER_BASE	→ 10	-	CUSTOM	N/A
MONGODB_HOST	→ nn-seqgen	-	CONFIG MAP	host
MONGODB_PORT	→ nn-seqgen	-	CONFIG MAP	port
MONGO_USER	→ nn-seqgen-user-creds	-	SECRET	username
MONGO_PASSWORD	→ nn-seqgen-user-creds	-	SECRET	password

Here is an example of how the YAML structure defines SECRET source environment variables.

env:

- name: MONGO_USER

valueFrom:

secretKeyRef:

key: username

name: nn-seqgen-user-creds

- name: MONGO_PASSWORD

valueFrom:

secretKeyRef:

key: password

name: nn-seqgen-user-creds