MBA - ARQUITETURA DE SOLUÇÕES - 8ASOO

Solution Sprint

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Criação de um projeto Red Hat – OpenShift:

```
PS C:\mba> oc new-project rm-343001 Already on project "rm-343001" on server "https://api.na46a.prod.ole.redhat.com:6443".

You can add applications to this project with the 'new-app' command. For example, try:

oc new-app rails-postgresql-example

to build a new example application in Ruby. Or use kubectl to deploy a simple Kubernetes application:

kubectl create deployment hello-node --image=k8s.gcr.io/e2e-test-images/agnhost:2.33 -- /agnhost serve-hostname

PS C:\mba> oc projects

You have access to the following projects and can switch between them with ' project <projectname>':

* rm-343001

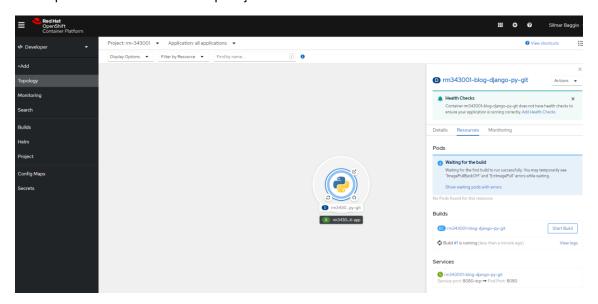
rm-343001-aula2 - silmar baggio

rm-343001-aula4

Using project "rm-343001" on server "https://api.na46a.prod.ole.redhat.com:6443".

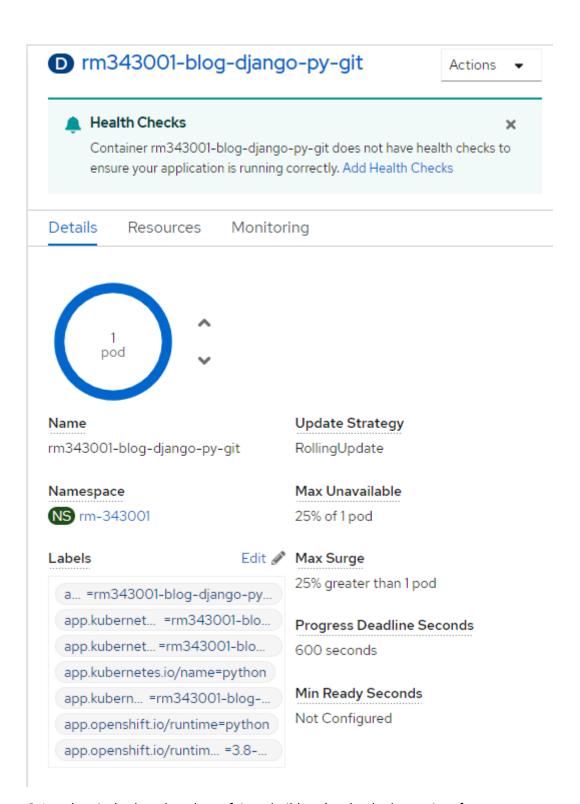
PS C:\mba> |
```

Pelo OpenShift foi clonado uma aplicação do Git e automaticamente realizado o build dela.

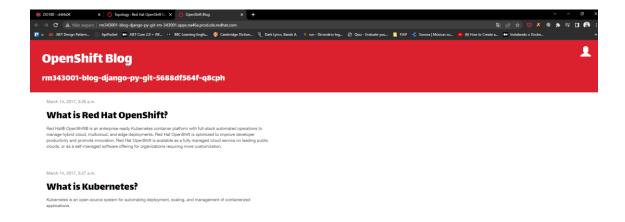


Após o Build o App opera com apenas um pod do container do app conforme abaixo:

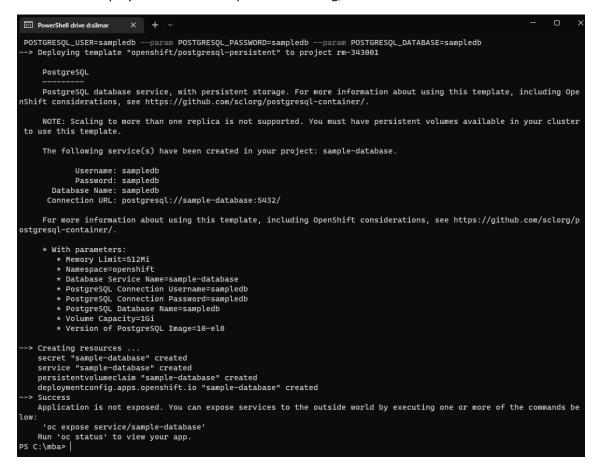




O App depois de clonado e de ter feito o build está rodando da seguinte forma:

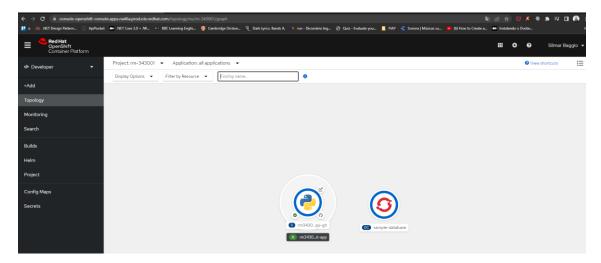


Efetuando o deploy de um database para APP do Blog, conforme abaixo:

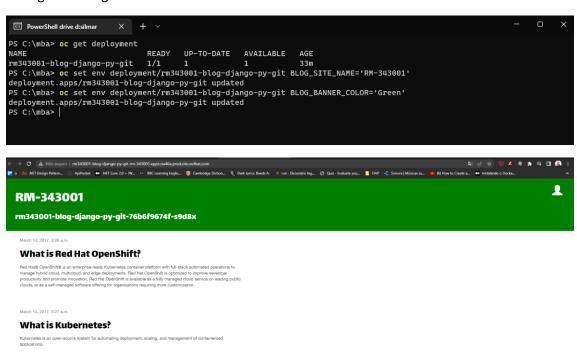


Agora temos um pod do banco rodando também, conforme abaixo:

```
PowerShell drive d:silmar
PS C:\mba> oc get pods
                                                           READY
                                                                     STATUS
                                                                                    RESTARTS
rm343001-blog-django-py-git-1-build
rm343001-blog-django-py-git-5688df564f-q8cph
                                                                                                  21m
                                                           θ/1
1/1
θ/1
1/1
                                                                     Completed
                                                                                    Θ
                                                                     Running
                                                                                                  20m
sample-database-1-deploy
                                                                     Completed
                                                                                    Θ
                                                                                                  63s
sample-database-1-zkcsl
                                                                     Running
PS C:\mba>
```



Configurando algumas variáveis de ambientes:



Conectando a aplicação com o banco de dados:

```
PS C:\mba> oc get deployment

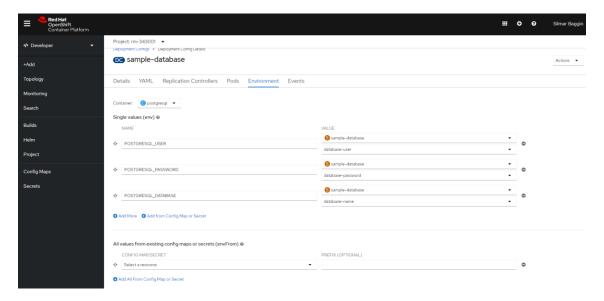
NAME

READY UP-TO-DATE AVAILABLE AGE

rm343001-blog-django-py-git 1/1 1 1 41m

PS C:\mba> oc set env deployment/rm343001-blog-django-py-git DATABASE_URL=postgresql://sampledb:sampledb@sample-database
:5432/sampledb
deployment.apps/rm343001-blog-django-py-git updated

PS C:\mba> |
```



## Conectando no container com rsh:

```
PS C:\mba> oc get pods

NAME

rm343001-blog-django-py-git-1-build

READY STATUS

RESTARTS

AGE

rm343001-blog-django-py-git-d8f86487b-k49jq

// Completed

// Completed

// Completed

// Sample-database-1-deploy

sample-database-1-deploy

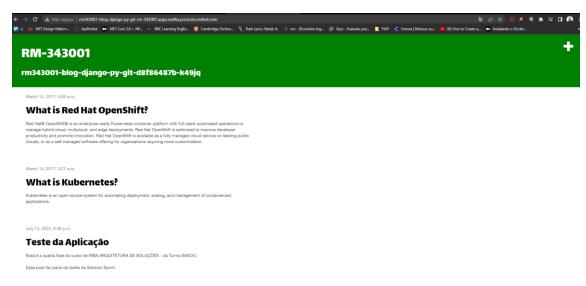
sample-database-1-zkcsl

// Running

// Completed

// Comp
```

## Testando a conexão com o banco:



## Adicionando HPC (Horizontal Pod Autoscalers):

