### Login to OpenShift using oc

https://docs.okd.io/3.11/minishift/openshift/openshift-client-binary.html

Get the oc.exe (OpenShift Client tool) location and add its path to the paths in the environment variable:

#### minishift oc-env

### oc config use-context minishift

### oc login -u system:admin

```
C:\Users\yaron.IL>oc login -u system:admin
Logged into "https://172.23.225.117:8443" as "system:admin" using existing credentials.

You have access to the following projects and can switch between them with 'oc project poshift posshift <pr
```

### oc config view

Accessing the Web Console:

minishift console --url

minishift console

#### Viewing OpenShift Logs

### minishift logs

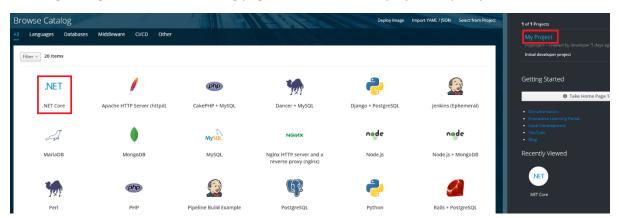
# minishift openshift config view

### Login to OpenShift console

https://172.23.225.117:8443/login?then=%2Foauth%2Fauthorize%3Fclient\_id%3Dopenshift-web-console%26response\_type%3Dcode%26state%3DeyJ0aGVuljoiL2NhdGFsb2ciLCJub25jZSI6IjE2NDEyODYwMTM5NDctMjg2ODkwOTQ5OTE1MTI4MTE2NjYzNzEzMzE0NTE5MjI3MzQ5MDM4ODQwMTk2MTQwMjMyMzAwNDIzMTM3MjM4NzI3OTUzMDMyNTgxNDE3OTcifQ%26redirect\_uri%3Dhttps%253A%252F%252F172.23.225.117%253A8443%252Fconsole%252Foauth



After login we get the browser catalog page and se the default project "My Project"



We see .NET (.NET Core) language but it supports by default only. netcore2.0

#### Add .NET 5.0 to catalog

https://access.redhat.com/documentation/enus/net/5.0/html/getting started with .net on rhel 8/using net 5 0 on openshift container pla tform

#### oc describe is dotnet | more

oc create -f <a href="https://raw.githubusercontent.com/redhat-developer/s2i-dotnetcore/master/dotnet\_imagestreams.json">https://raw.githubusercontent.com/redhat-developer/s2i-dotnetcore/master/dotnet\_imagestreams.json</a>

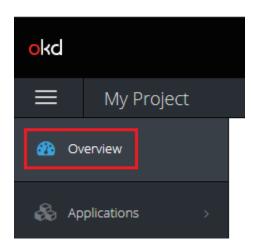
oc replace -f <a href="https://raw.githubusercontent.com/redhat-developer/s2i-dotnetcore/master/dotnet">https://raw.githubusercontent.com/redhat-developer/s2i-dotnetcore/master/dotnet</a> imagestreams.json

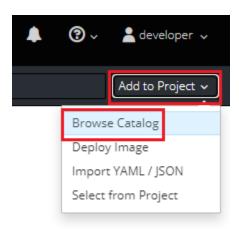


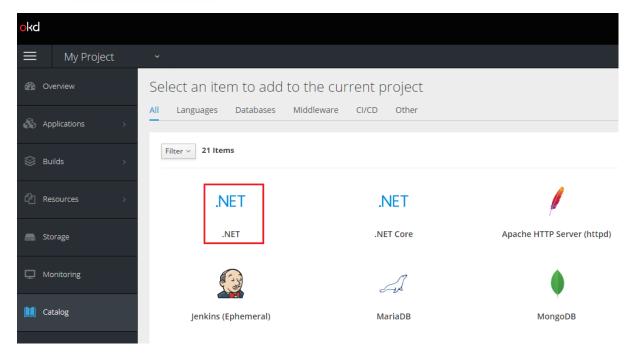
#### oc describe is dotnet | more

```
Command Prompt
C:\Users\yaron.IL>oc describe is dotnet | more
Name:
                          dotnet
Namespace:
                         myproject
Created:
                          18 hours ago
Labels:
                          <none>
Annotations:
                          openshift.io/display-name=.NET
Docker Pull Spec:
                          172.30.1.1:5000/myproject/dotnet
Image Lookup:
                          local=false
Unique Images:
                          8
Tags:
  tagged from registry.access.redhat.com/ubi8/dotnet-60:6.0
    prefer registry pullthrough when referencing this tag
  Build and run .NET 6 applications on UBI 8. For more information abo
onsiderations, see https://github.com/redhat-developer/s2i-dotnetcore
  Tags: builder, .net, dotnet, dotnetcore, dotnet60, hidden
  Supports: dotnet:6.0, dotnet
Example Repo: https://github.com/redhat-developer/s2i-dotnetcore-ex
  * registry.access.redhat.com/ubi8/dotnet-60@sha256:46c89b5baa22641bc
      18 hours ago
6.0-ubi8 (latest)
  tagged from registry.access.redhat.com/ubi8/dotnet-60:6.0
    prefer registry pullthrough when referencing this tag
 Build and run .NET 6 applications on UBI 8. For more information abo
onsiderations, see https://github.com/redhat-developer/s2i-dotnetcore/
  Tags: builder, .net, dotnet, dotnetcore, dotnet60
Supports: dotnet:6.0, dotnet
Example Repo: https://github.com/redhat-developer/s2i-dotnetcore-ex
  * registry.access.redhat.com/ubi8/dotnet-60@sha256:46c89b5baa22641bc
      18 hours ago
  tagged from registry.access.redhat.com/ubi8/dotnet-50:5.0
    prefer registry pullthrough when referencing this tag
```

### **Deploy .NET5.0 WebAPI Microservice**







.NET X

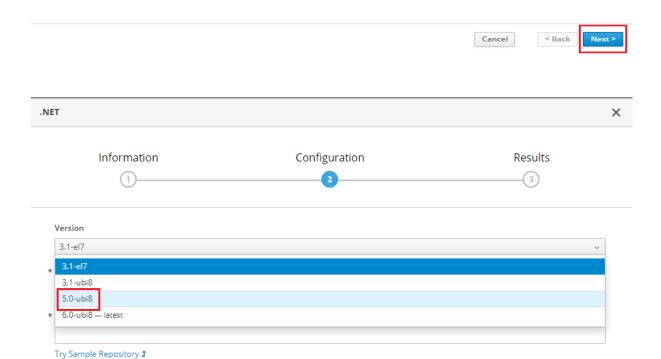




BUILDER .NET DOTNET DOTNETCORE RH-DOTNET31

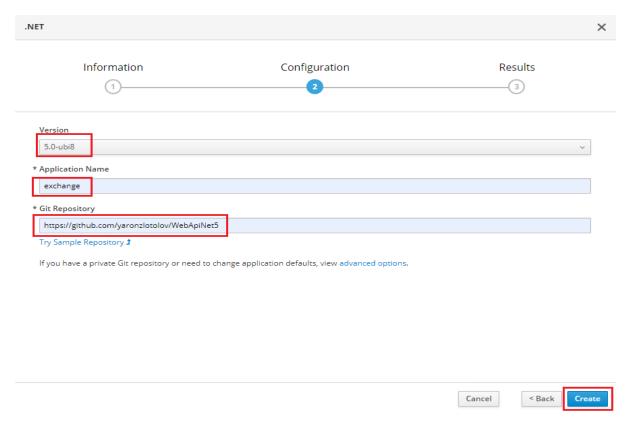
Build and run .NET Core 3.1 applications on RHEL 7. For more information about using this builder image, including OpenShift considerations, see https://github.com/redhat-developer/s2i-dotnetcore/tree/master/3.1/build/README.md.

Sample Repository: https://github.com/redhat-developer/s2i-dotnetcore-ex



 $If you have a private \ Git \ repository \ or \ need \ to \ change \ application \ defaults, \ view \ advanced \ options.$ 

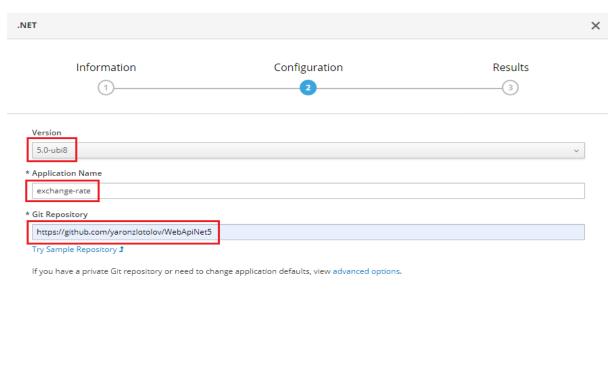




.NET version: 5.0

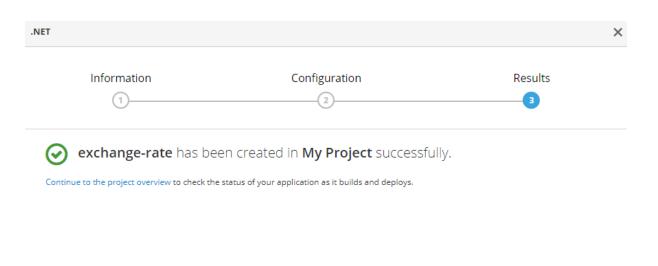
**Git repo**: <a href="https://github.com/yaronzlotolov/WebApiNet5">https://github.com/yaronzlotolov/WebApiNet5</a>

Application name: exchange-rate

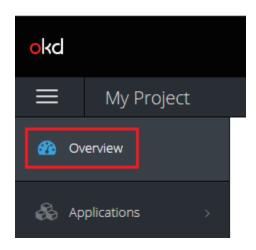


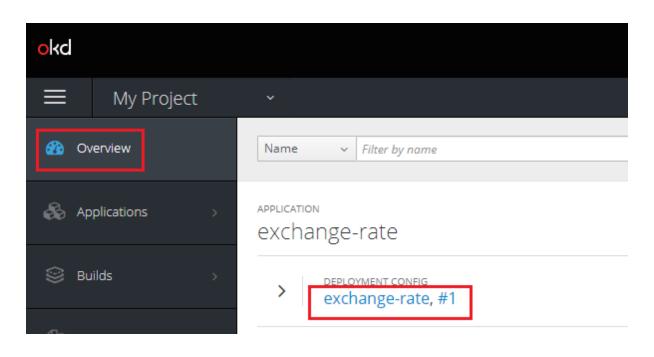
< Back

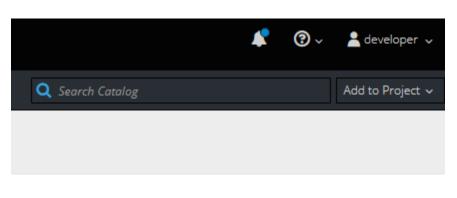
Cancel





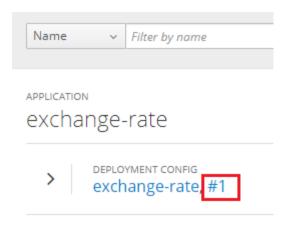


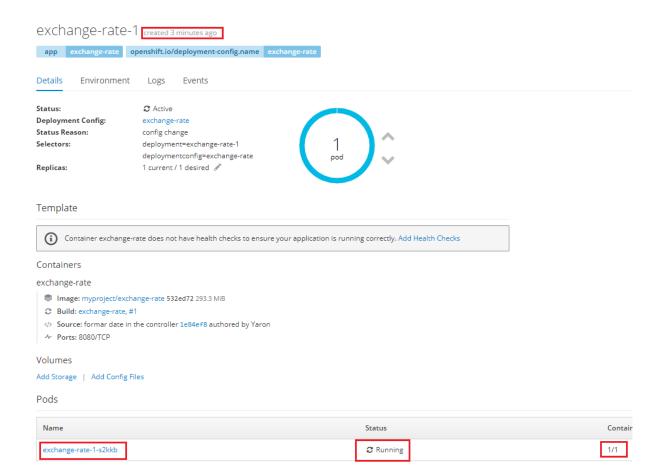




http://exchange-rate-myproject.172.23.225.117.nip.io







### oc --help

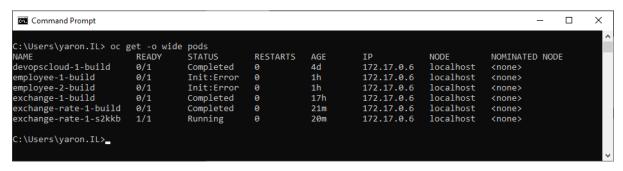
## oc get nodes



#### oc get pods

:\Users\yaron.IL>oc g	at node						
IAME	READY	STATUS	RESTARTS	AGE			
levopscloud-1-build	0/1	Completed	0	4d			
mployee-1-build	0/1	Init:Error	0	1h			
mployee-2-build	0/1	Init:Error	0	1h			
xchange-1-build	0/1	Completed	0	17h			
xchange-rate-1-build	0/1	Completed	0	17m			
xchange-rate-1-s2kkb	1/1	Running	0	16m			

#### oc get -o wide pods



#### oc describe pod exchange-rate-1-s2kkb

```
Command Prompt
                                                                                                                                                                                                                                                                                    \times
 :\Users\yaron.IL>oc describe pod exchange-rate-1-s2kkb
lame: exchange-rate-1-s2kkb
lamespace: myproject
riority: 0
 Namespace:
 Priority:
PriorityClassName:
                                               0'

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 start Time:
Annotations:
                                                 openshift.io/scc=restricted
                                                Running
172.17.0.6
ReplicationController/exchange-rate-1
IP:
Controlled By:
 ontainers:
    exchange-rate:
Container ID:
                                                docker://cfd1d6c2abf3986ad0cb414cb8ebad6061cbd79a39ee65097c18687cb1315c3d
172.30.1.1:5000/myproject/exchange-rate@sha256:532ed72d0b54954f265f8ad853f7470c47489d65ea9b40788e7
 Image:
350c6c434d725
 | Image ID: docker-pullable://172.30.1.1:5000/myproject/exchange-rate@sha256:532ed72d0b54954f265f8ad853f7470c4
| 1489d65ea9b40788e7350c6c434d725
| Port: 8080/TCP
         Port:
Host Port:
State:
Started:
                                                0/TCP
Running
Tue, 04 Jan 2022 11:07:13 +0200
True
         Ready:
         Restart Count: 0
Environment: <
         Mounts:
/var/run/secrets/kubernetes.io/serviceaccount from default-token-2vw52 (ro)
   onditions:
                                                Status
True
True
    Type
Initialized
    Ready
ContainersReady
PodScheduled
    default-token-2vw52:
         Type: Secret (a volume populated by a Secret)
SecretName: default-token-2vw52
                                        false
BestEffort
<none>
         Optional:
 QoS Class:
Node-Selectors:
Tolerations:
  vents:
    Туре
                       Reason
                                                  Age From
                                                                                                                   Message
  Normal Scheduled 42m default-scheduler Successfully assigned myproject/exchange-rate-1-s2kkb to localhost
Normal Pulling 42m kubelet, localhost pulling image "172.30.1.1:5000/myproject/exchange-rate@sha256:532ed72d0
54954f265f8ad853f7470c47489d65ea9b40788e7350c6c434d725"
Normal Pulled 42m kubelet, localhost Successfully pulled image
6:532ed72d0b54954f265f8ad853f7470c47489d65ea9b40788e7350c6c434d725"
172.30.1.1:5000/myproject/exchange-rate@sha26:532ed72d0b54954f265f8ad853f7470c47489d65ea9b40788e7350c6c434d725"
   Normal Created
Normal Started
                                                                 kubelet, localhost Created container
kubelet, localhost Started container
  :\Users\yaron.IL>_
```

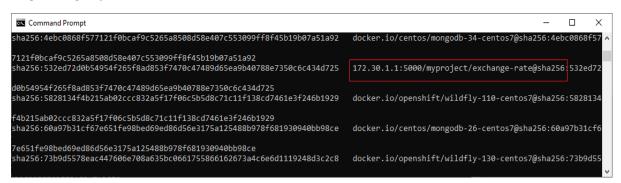
#### oc get svc

Command Pron	npt					_	×
- 1							-
C:\Users\yaron	.IL>oc get s	VC					
NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE		
devopscloud	ClusterIP	172.30.19.145	<none></none>	8080/TCP	4d		
employee	ClusterIP	172.30.244.234	<none></none>	8080/TCP	2h		
exchange	ClusterIP	172.30.43.91	<none></none>	8080/TCP	18h		
exchange-rate	ClusterIP	172.30.120.17	<none></none>	8080/TCP	45m		
C:\Users\yaron	.IL>						

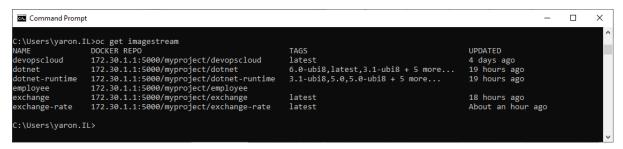
#### oc get routes



#### oc get images | more



### oc get imagestream



#### oc get builds



### oc get replicationcontroller



### Scale-up 2 pods

# exchange-rate-1 created an hour ago

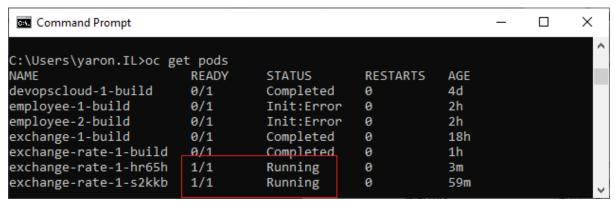


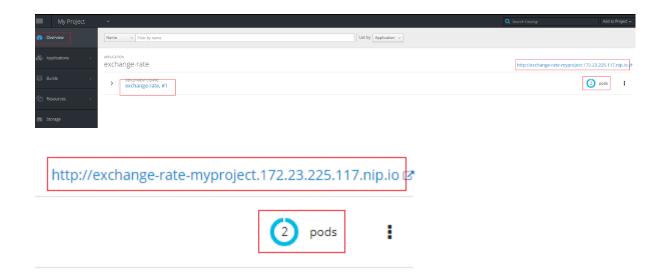
### Template

#### Pods

Name	Status	Containers Ready
exchange-rate-1-hr65h	<b>♂</b> Running	1/1
exchange-rate-1-s2kkb	<b>♂</b> Running	1/1







http://exchange-rate-myproject.172.23.225.117.nip.io/ExchangeRate/USD/ILS

http://exchange-rate-myproject.172.23.225.117.nip.io/ExchangeRate/EUR/ILS

