

3- OPENSIFT CRC INSTALLATION



Sezgin KEŞÇİOĞLU tarafından oluşturuldu
Son güncelleme: Eki 24, 2022

OPENSIFT CONTAINER PLATFORM | Installation

Installation Paradigms

OPENSIFT CONTAINER PLATFORM

Full Stack Automated

Simplified opinionated “Best Practices” for cluster provisioning

Fully automated installation and updates including host container OS.



Pre-existing Infrastructure

Customer managed resources & infrastructure provisioning

Plug into existing DNS and security boundaries



HOSTED OPENSIFT

Azure Red Hat OpenShift

Deploy directly from the Azure console. Jointly managed by Red Hat and Microsoft Azure engineers.

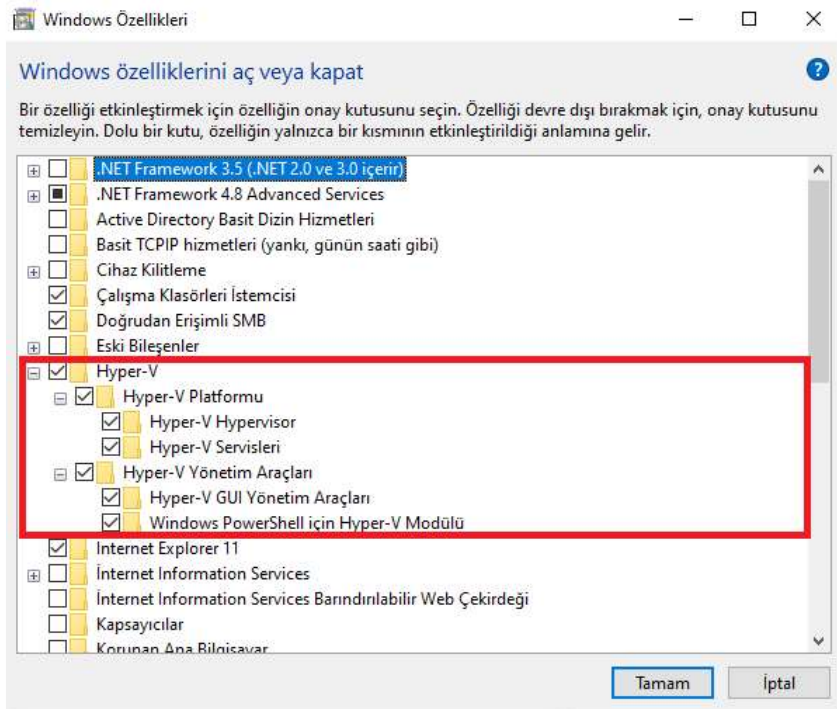
OpenShift Dedicated

Get a powerful cluster, fully Managed by Red Hat engineers and support.



OPENSIFT CLUSTER INSTALLATION ON LOCAL FOR LABS

Enable your hyperv from windows features;



 console.redhat.com

<https://developers.redhat.com/content-gateway/rest/mirror/pub/openshift-v4/clients/crc/latest/crc-windows-installer.zip>

→ ↻ console.redhat.com/openshift/create/local

☰

Red Hat Hybrid Cloud Console

All apps and services ▾

⚙️

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Sezgin Kescioglu ▾

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Create an OpenShift cluster

☁ Cloud

🏢 Datacenter

🖥 Local

Red Hat OpenShift Local

local sandbox

Create a minimal OpenShift on your desktop/laptop for local development and testing.

Note: Your OpenShift Local installation won't appear in the OpenShift Cluster Manager unless you enable cluster monitoring and telemetry.

1

Download what you need to get started

OpenShift Local

Download and extract the OpenShift Local archive on your computer and open the installer. Opening the installer will automatically start a step-by-step installation guide.

Windows ▾

x86_64 ▾

Download OpenShift Local

Pull secret

Download or copy your pull secret. You'll be prompted for this information during installation.

Download pull secret

📄 Copy pull secret

2

Follow the documentation to install OpenShift Local

Run `crc setup` to set up your host operating system for the OpenShift Local virtual machine.

Then, run `crc start` to create a minimal OpenShift 4 cluster on your computer.

[View the OpenShift Local Getting started guide ↗](#)

```
1 crc setup
2 #Restart your pc and run command below.
3 #Note : Our secret file is inside "C:\OPENSIFT\" path.
4 #According to your hardware you can change cpu, memory and other resources.
5 crc start --disk-size 100 --cpus 8 --memory 20000 --pull-secret-file "C:\OPENSIFT\" crc start --disk-size 100 --cpus 8 --memory 20000
```

[illegible]

```
INFO All operators are available. Ensuring stability...
INFO Operators are stable (2/3)...
INFO Operators are stable (3/3)...
INFO Adding crc-admin and crc-developer contexts to kubeconfig...
Started the OpenShift cluster.
```

```
The server is accessible via web console at:
https://console-openshift-console.apps-crc.testing
```

```
Log in as administrator:
Username: kubeadmin
Password: 3noMo-KsLKm-VyMTI-X7y6J
```

```
Log in as user:
Username: developer
Password: developer
```

```
Use the 'oc' command line interface:
> @FOR /F "tokens=*" %i IN ('crc oc-env') DO @call %i
> oc login -u developer https://api.crc.testing:6443
```

You can connect to your own administrator and developer perspective with authentication information which are written in start command output.

Save authentication information a file in your local machine.

SETUP OPENSIFT CLIENT

Set up your oc (openshift-client) console enviroment variable. Path : C:\Users\{YOUR_USER_ACCOUNT}\crc\bin\oc

```
C:\TOOLS\cmdr
λ oc
OpenShift Client

This client helps you develop, build, deploy, and run your applications on any
OpenShift or Kubernetes cluster. It also includes the administrative
commands for managing a cluster under the 'adm' subcommand.

Basic Commands:
  login          Log in to a server
  new-project    Request a new project
  new-app        Create a new application
  status         Show an overview of the current project
  project        Switch to another project
  projects       Display existing projects
  explain        Get documentation for a resource

Build and Deploy Commands:
  rollout        Manage a Kubernetes deployment or OpenShift deployment config
  rollback       Revert part of an application back to a previous deployment
  new-build      Create a new build configuration
  start-build    Start a new build
  cancel-build   Cancel running, pending, or new builds
  import-image   Import images from a container image registry
  tag            Tag existing images into image streams

Application Management Commands:
  create         Create a resource from a file or from stdin
  apply          Apply a configuration to a resource by file name or stdin
  get            Display one or many resources
  describe       Show details of a specific resource or group of resources
  edit           Edit a resource on the server
  set            Commands that help set specific features on objects
  label          Update the labels on a resource
  annotate       Update the annotations on a resource
  expose         Expose a replicated application as a service or route
  delete         Delete resources by file names, stdin, resources and names, or by resources and label selector
  scale          Set a new size for a deployment, replica set, or replication controller
  autoscale      Autoscale a deployment config, deployment, replica set, stateful set, or replication controller
  secrets        Manage secrets

Troubleshooting and Debugging Commands:
  logs           Print the logs for a container in a pod
  rsh            Start a shell session in a container
  rsync          Copy files between a local file system and a pod
  port-forward   Forward one or more local ports to a pod
  debug          Launch a new instance of a pod for debugging
  exec           Execute a command in a container
  proxy          Run a proxy to the Kubernetes API server
  attach         Attach to a running container
  run            Run a particular image on the cluster
  cp             Copy files and directories to and from containers
  wait           Experimental: Wait for a specific condition on one or many resources

Advanced Commands:
  adm            Tools for managing a cluster
  replace        Replace a resource by file name or stdin
  patch          Update fields of a resource
  process        Process a template into list of resources
  extract        Extract secrets or config maps to disk
  observe        Observe changes to resources and react to them (experimental)
  policy         Manage authorization policy
  auth           Inspect authorization
  image          Useful commands for managing images
  registry       Commands for working with the registry
  idle           Idle scalable resources
  api-versions   Print the supported API versions on the server, in the form of "group/version"
  api-resources  Print the supported API resources on the server
  cluster-info   Display cluster information
  diff           Diff the live version against a would-be applied version
  kustomize      Build a kustomization target from a directory or URL.

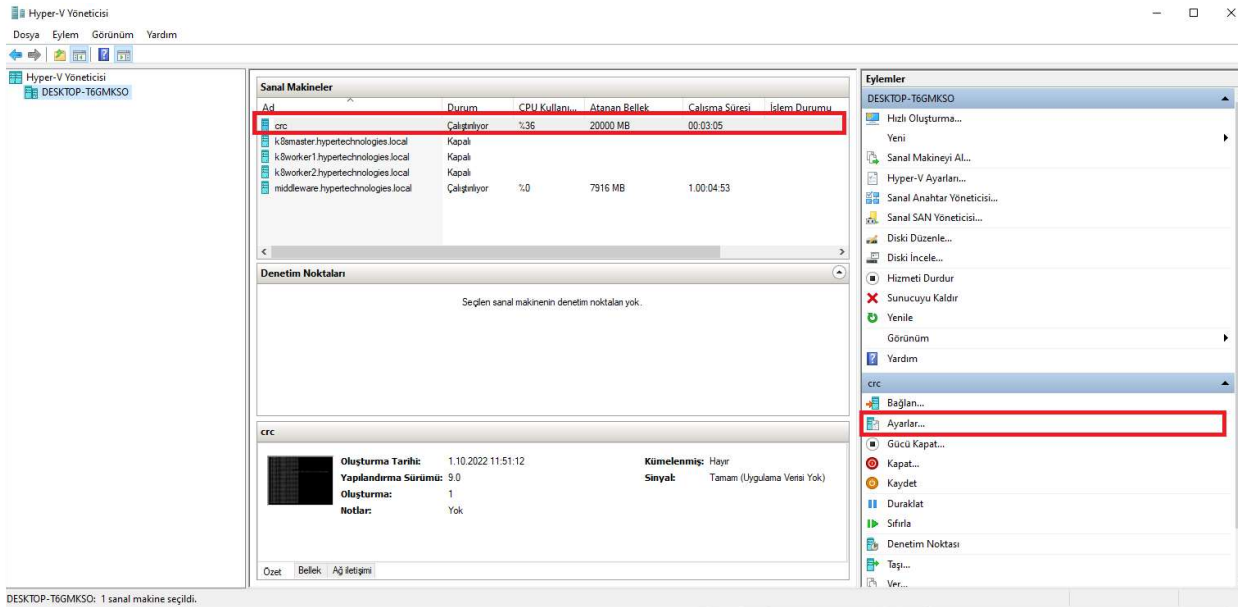
Settings Commands:
  logout         End the current server session
  config         Modify kubeconfig files
```



```
completion
whoami
Return information about the current session
Output shell completion code for the specified shell (bash, zsh or fish)

Other Commands:
plugin Provides utilities for interacting with plugins
version Print the client and server version information
```

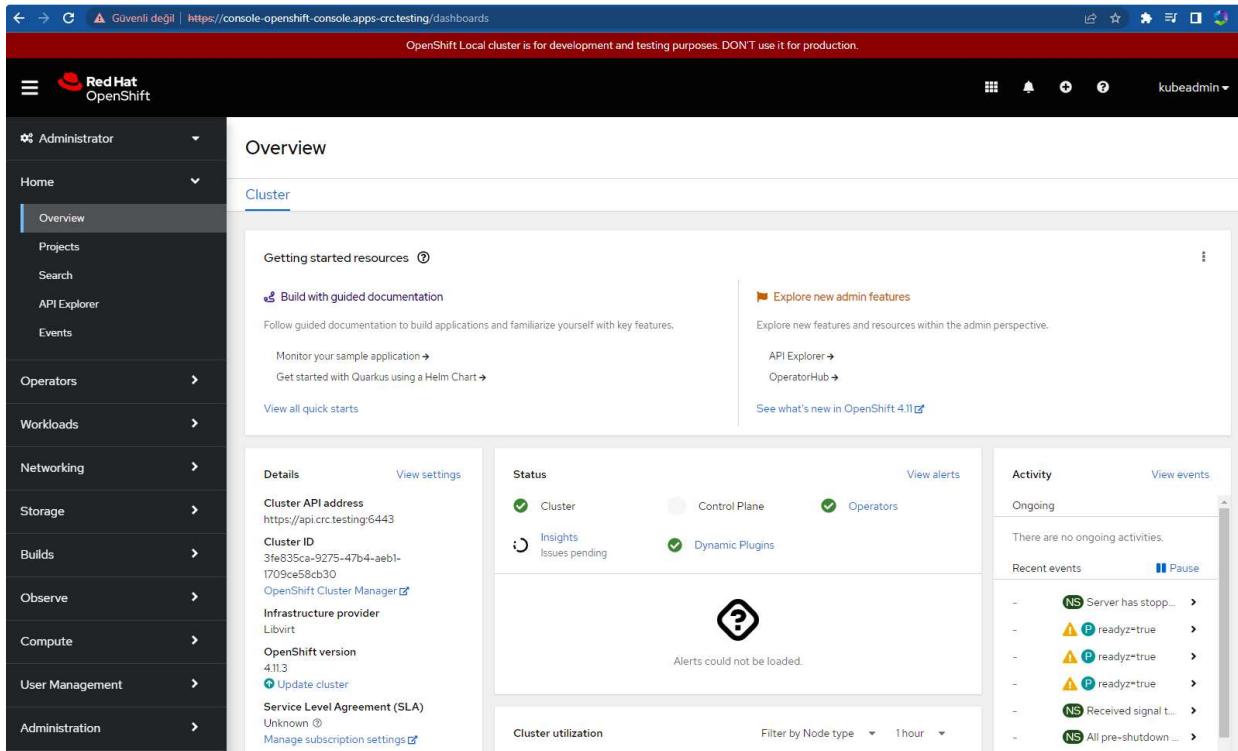
You can also see your openshift cluster vm in Windows HyperV Manager as below.



CONNECT OPENSIFT CLUSTER FROM BROWSER

Connect your cluster from this url from your browser.

<https://console-openshift-console.apps-crc.testing>



CONNECT OPENSIFT CLUSTER FROM CLI

Check openshift client connection as below;

```
1 oc login -u kubeadmin https://api.crc.testing:6443
```

```
C:\TOOLS\cmdr
```

```
λ oc login -u kubeadmin https://api.crc.testing:6443
```

```
Logged into "https://api.crc.testing:6443" as "kubeadmin" using existing credentials.
```

```
You have access to 71 projects, the list has been suppressed. You can list all projects with 'oc projects'
```

```
Using project "apps-hypertechnologies-test".
```



Congratulations, your local lab is ready to go.

If you want to install Openshift on cloud, you can use this source;

 [How to Install & Deploy Red Hat Openshift | K21 Academy](#)



Etiket ekle



Tepki ekleyen ilk siz olun