

OpenShift Local Installation for Windows

To perform an OpenShift Local installation, you need a valid Red Hat Login. If you don't have one, go to www.redhat.com to create an account. The OpenShift Local instance will be associated with this login ID.

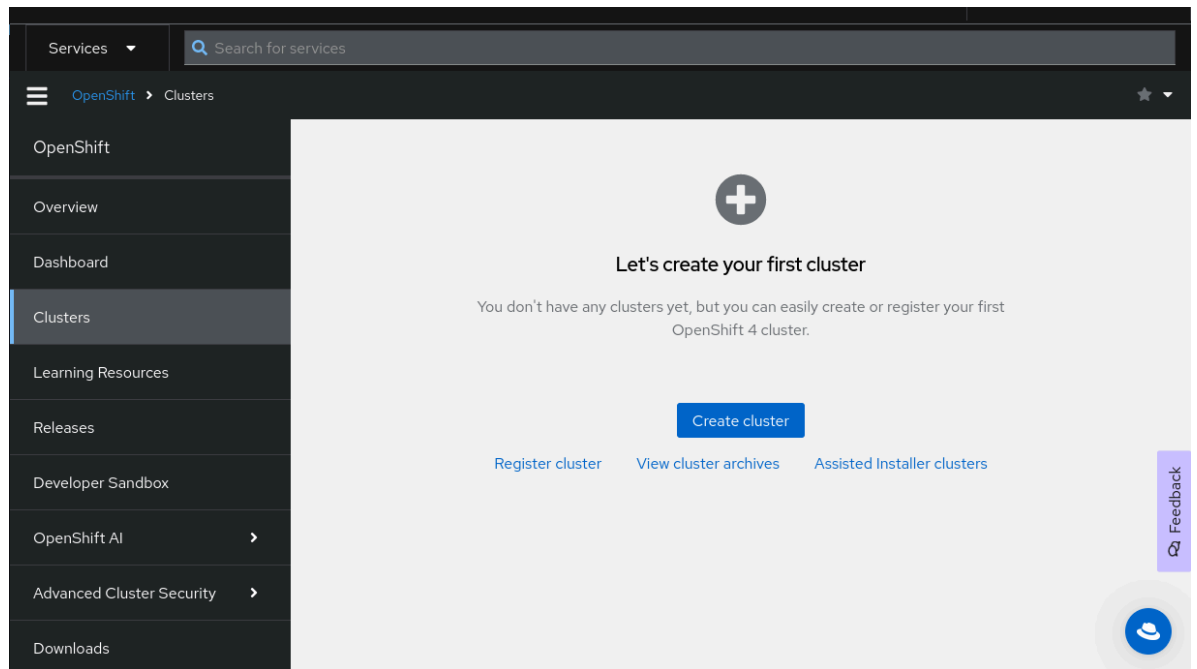
Minimum Hardware Requirements

- 4 CPU cores
- 16 GiB Memory
- 50 GB Free Storage

Installation Steps

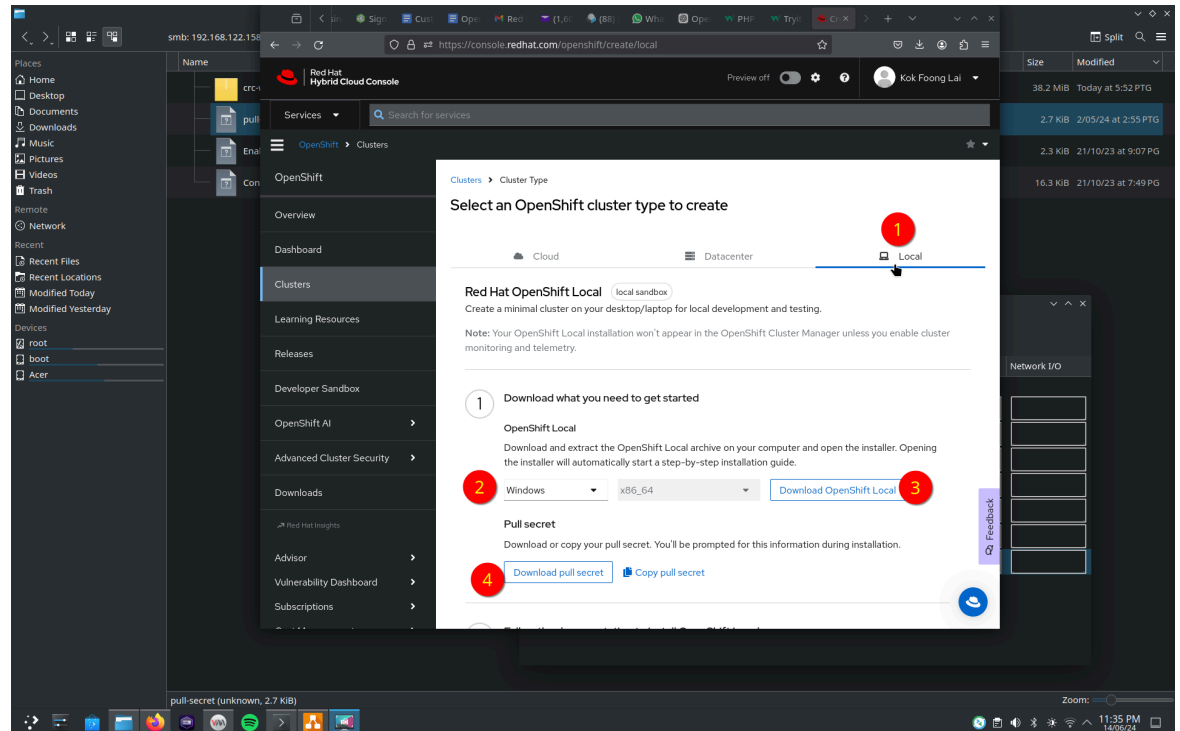
1. Login to OpenShift Console
 - a. Go to <https://console.redhat.com/openshift> and log in with your Red Hat credentials.
2. Create a Cluster

a. Click on “Create cluster”



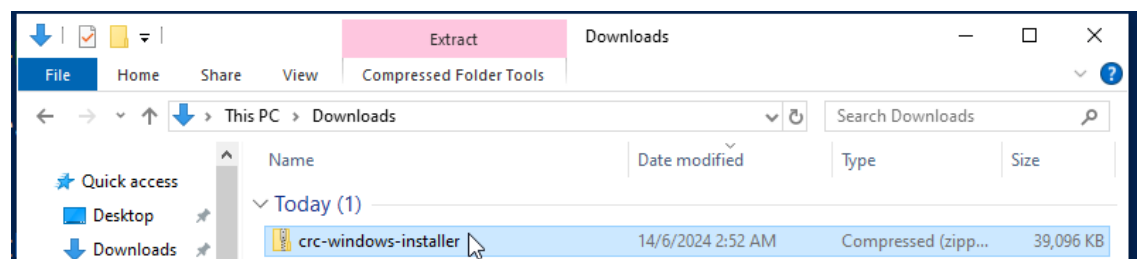
3. Download the Installer and Pull Secret

- Select the **Local** Tab, and choose **Windows** from the dropdown list.
- Download the installer by clicking the **Download OpenShift Local** button.
- Download the pull secret by clicking the **Download pull secret** button.



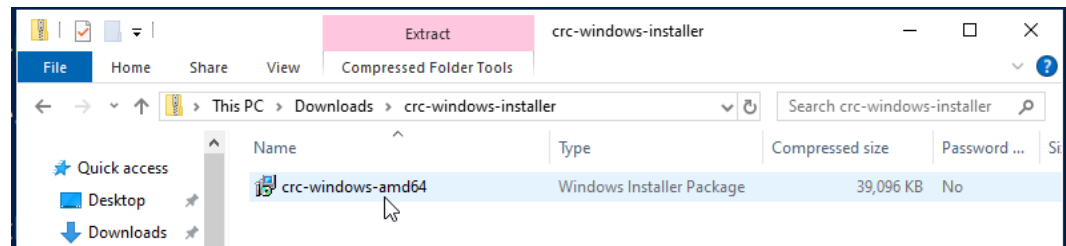
4. Run the Installer

- Open Windows Explorer and navigate to the Downloads folder.
- Double-click the ***crc-windows-installer*** file.

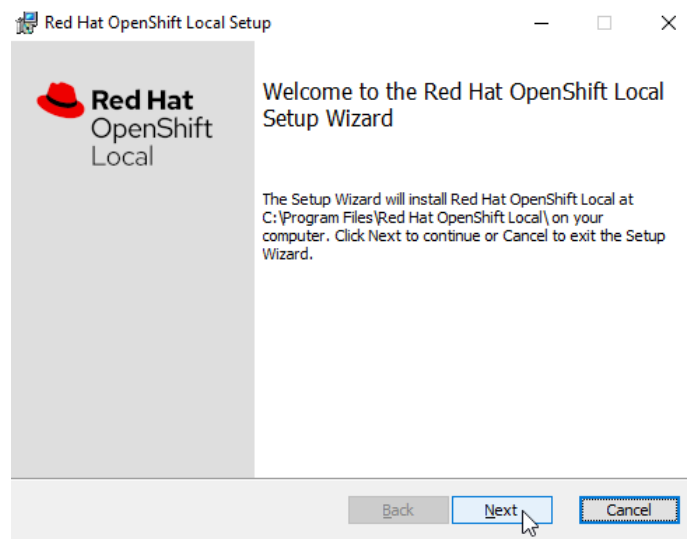


5. Installation Process

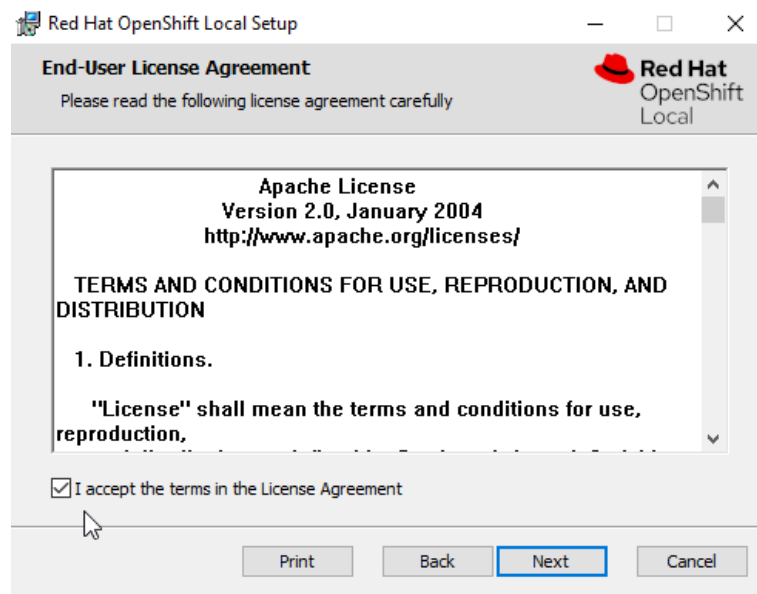
- a. Double-click the ***crc-windows-amd64*** installer.



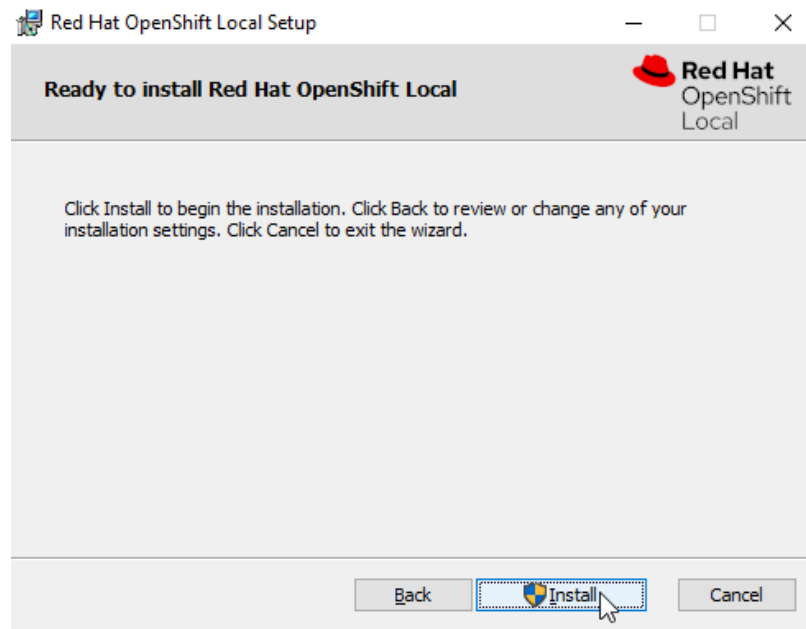
- b. Click ***Next*** in the installation dialog.



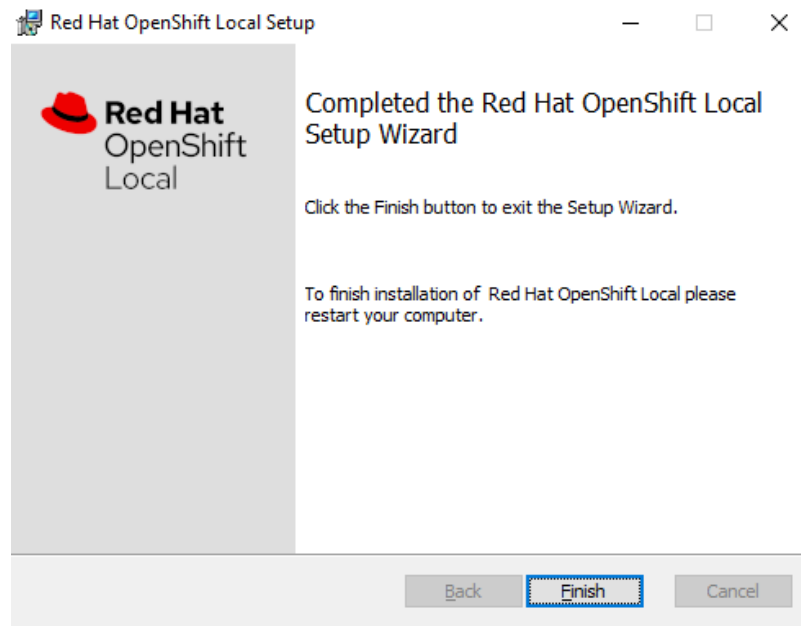
- c. Accept the EULA and click **Next**.



- d. Click **Install** to proceed with the installation.

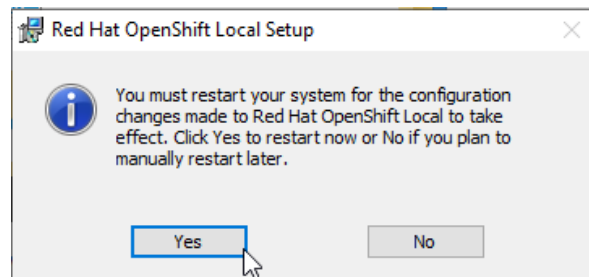


- e. Once the installation finishes, click **Finish**.



6. Reboot the Machine

- a. Restart your computer to complete the installation process.



7. Setup the OpenShift Local Environment

- a. After the reboot, open a PowerShell terminal and type **crc setup**.

Note: The image download size is approximately 4.69GiB.

```
Windows PowerShell
/developers.redhat.com/article/tool-data-collection)
Your preference can be changed manually if desired using 'crc config set consent-telemetry <yes/no>'
Would you like to contribute anonymous usage statistics? [y/N]:
No worry, you can still enable telemetry manually with the command 'crc config set consent-telemetry yes'.
INFO Using bundle path C:\Users\user\.crc\cache\crc_hyperv_4.15.14_amd64.crcbundle
INFO Checking minimum RAM requirements
INFO Check if Podman binary exists in: C:\Users\user\.crc\bin\oc
INFO Checking if running in a shell with administrator rights
INFO Checking Windows release
INFO Checking Windows edition
INFO Checking if Hyper-V is installed and operational
INFO Checking if Hyper-V service is enabled
INFO Checking if crc-users group exists
INFO Checking if current user is in crc-users and Hyper-V admins group
INFO Checking if vsock is correctly configured
INFO Checking if CRC bundle is extracted in '$HOME/.crc'
INFO Checking if C:\Users\user\.crc\cache\crc_hyperv_4.15.14_amd64.crcbundle exists
INFO Getting bundle for the CRC executable
INFO Downloading bundle: C:\Users\user\.crc\cache\crc_hyperv_4.15.14_amd64.crcbundle...
14.13 MiB / 4.69 GiB [>_____] 0.29% 407.15 KiB/s
```

- b. The image will be expanded (after the download completes), which will require approximately 22.45 GiB of storage space.

```
INFO Downloading bundle: C:\Users\user\.crc\cache\crc_hyperv_4.15.14_amd64.crcbundle...
4.69 GiB / 4.69 GiB [-----] 100.00% 3.13 MiB/s
INFO Uncompressing C:\Users\user\.crc\cache\crc_hyperv_4.15.14_amd64.crcbundle
crc.vhdx: 4.99 GiB / 22.45 GiB [----->_____] 22.24%
```

8. Start the OpenShift Cluster

- Start your OpenShift cluster by typing ***crc start*** in the PowerShell terminal.
- You will be prompted to paste your **pull-secret** file contents. This step is required only the first time you start the cluster.

```
Select Windows PowerShell
PS C:\Users\user\Downloads> crc start
INFO Using bundle path C:\Users\user\.crc\cache\crc_hyperv_4.15.14_amd64.crcbundle
INFO Checking minimum RAM requirements
INFO Check if Podman binary exists in: C:\Users\user\.crc\bin\oc
INFO Checking if running in a shell with administrator rights
INFO Checking Windows release
INFO Checking Windows edition
INFO Checking if Hyper-V is installed and operational
INFO Checking if Hyper-V service is enabled
INFO Checking if crc-users group exists
INFO Checking if current user is in crc-users and Hyper-V admins group
INFO Checking if vsock is correctly configured
INFO Checking if the win32 background launcher is installed
INFO Checking if the daemon task is installed
INFO Checking if the daemon task is running
INFO Checking admin helper service is running
INFO Checking SSH port availability
INFO Loading bundle: crc_hyperv_4.15.14_amd64...
CRC requires a pull secret to download content from Red Hat.
You can copy it from the Pull Secret section of https://console.redhat.com/openshift/create/local.
? Please enter the pull secret
```

9. Access Cluster Credentials

- When the startup finishes, you will be shown the credentials and URL needed to access your cluster.
- Note down the **kubeadmin** and **developer** passwords.

```
Windows PowerShell
INFO Updating cluster ID...
INFO Updating root CA cert to admin-kubeconfig-client-ca configmap...
INFO Starting openshift instance... [waiting for the cluster to stabilize]
ERROR Cluster is not ready: cluster operators are still not stable after 10m0.3566293s
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: tCF4V-Ckfpi-wiRvP-NuejD

Log in as user:
Username: developer
Password: developer

Use the 'oc' command line interface:
PS> & crc oc-env | Invoke-Expression
PS> oc login -u developer https://api.crc.testing:6443
PS C:\Users\user\Downloads>
```

10. Access the OpenShift Console

- Access the cluster by going to the URL displayed earlier, <https://console-openshift-console.apps-crc.testing>, or by typing **crc**

console in the PowerShell terminal.

Managing the Cluster

- crc start*** - Start the cluster after a machine reboots.
- crc stop*** - Stop the cluster before shutting down your machine.
- crc console*** - Open your browser and navigate to the OpenShift console.
- crc console --credentials*** - Display login credentials