

Red Hat Connect for Technology Partners

Getting Started Guide - Container Zone

Prepared for: Product Managers and Technical Staff
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Introduction

Welcome to Red Hat Connect for Technology Partners. This guide provides instructions on how to register for the Red Hat Connect for Technology Partner program.

This document will also guide you through the process of obtaining a “Red Hat Certified” designation for an application that you have made deployable via a Linux container using Red Hat technology.

The process involves preparing your containerized application so that it meets certain criteria as specified in the Red Hat Certification Policy Guide, submitting it to Red Hat for review and certification, and publishing it so that the containerized application is available for consumption.

It should be noted that the ability to maintain the certification requires a commitment to maintaining the trustworthiness of the container, i.e., updating it as needed for security or other reasons.

Register for RHC4TP & Request Technology Partnership

Go to connect.redhat.com and click *LOG IN* at the upper right of the page.

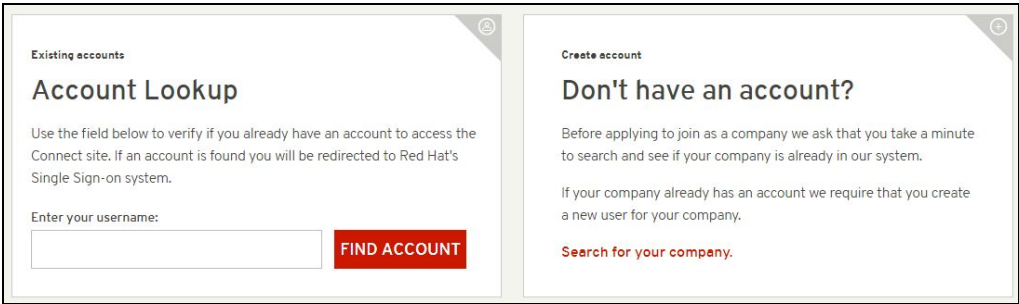
Click *REGISTER*.



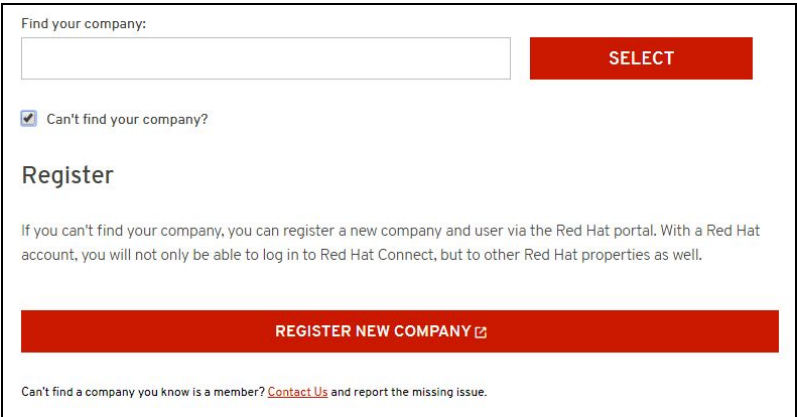
Check to see if you have an existing account by searching your Red Hat account login Username.

If you do not have an existing User Account, check if your Company has an existing account by clicking *SEARCH FOR YOUR COMPANY*.

NOTE: If you find your company in the search field, please email connect@redhat.com to find out who the Org Admin is for your company, so they can add you to the existing account.



If your company does not have an existing account, click *CAN'T FIND YOUR COMPANY* and then click *REGISTER NEW COMPANY*.



Fill in all required fields and *SUBMIT*.

Create a Red Hat Login

A Red Hat account gives you access to product evaluations and purchasing capabilities.

* Indicates Required Field

Need access to an account?

If your company has an existing Red Hat account, your organization administrator can grant you access. If you have questions, [contact customer service](#).

Login Information

* Create a Red Hat Login:

Your login is a user ID for accessing your account across all Red Hat sites. It must be at least five characters and cannot be changed once created.

* Email Address:

* Password:

Your password must be at least six characters long. A strong password combines lower case letters, upper case letters, numbers, and symbols.

* Confirm Password:

Company Information

A confirmation Email will be sent (example email)

Once your Email has been confirmed, log in to your RHC4TP account at [connect.redhat.com](#). You will be redirected to the *Getting Started* page.

NOTE: If you are not redirected, please click *MANAGE COMPANY* and then click *BECOME A PARTNER*


You will now be required to complete the following sections (clicking *Next* after filling in the required information):

- Company Details
- Connect Details
- My Profile

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Once the Profile section is complete, you will need to review and accept the Technology Partner Program Agreement..

Signing up is simple, easy and catch-free. Since some of the program benefits require confidentiality protection, we do ask partners to agree to the terms

 [PA_Technology_Partner_Program_20150501.pdf](#)

☒ I agree with the Technology Partner Agreement Terms *

Back

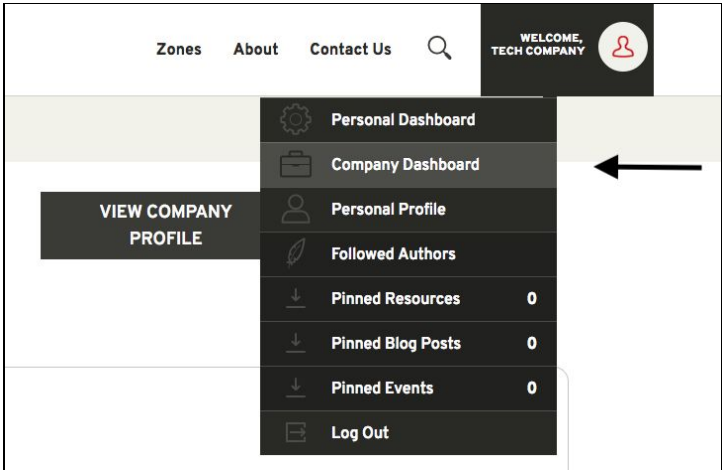
Complete

Request Zone Access

When you’re ready to certify your product on Red Hat Software, you will need to request Zone access and then create a Certification Project.

Go to connect.redhat.com and click *LOG IN* at the upper right of the page.

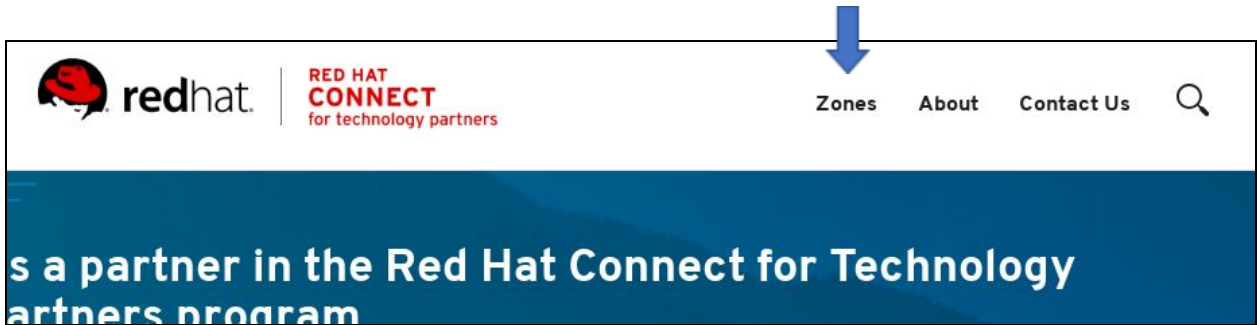
Click on *COMPANY DASHBOARD*



Then select *EDIT COMPANY PROFILE*

Complete all mandatory fields marked with an * and then click *SUBMIT* at the end of the page

Click on *ZONES* at the top of the page.



Scroll down to Join a Zone section.

Under the Zone you wish to join, click *APPLY FOR ZONE ACCESS*.

Join a Zone

Apply for Zone Access to one or more Red Hat Zones listed below. Each Zone may have additional terms and conditions specific to that Zone, that will require acceptance for entry. You will be notified of your Zone application status within the next 48 hours.

PLATFORMS

RED HAT ENTERPRISE LINUX

Provide customers with enterprise-ready reliability, long term support and proven business value via the industry's leading commercial Linux Platform.

APPLY FOR ZONE ACCESS

PLATFORMS

CONTAINERS

Transform application delivery, address scalability needs and iterate faster across hybrid environments.

APPLY FOR ZONE ACCESS

MIDDLEWARE

RED HAT MIDDLEWARE

Innovate faster and smarter with light-weight, cloud-friendly Red Hat middleware.

APPLY FOR ZONE ACCESS

You will be notified via Email upon approval of your Zone Request.

Add a Product

Log in to your RHC4TP account at connect.redhat.com.

Select the *Human* icon at the top right of the screen and select *Company Dashboard* from the dropdown menu.

Scroll down to *Products* section.

Click *ADD A PRODUCT*.

Products

ADD A PRODUCT

Edit product information, add product logos, assign teams, see status and certification information. Add new solutions.

PRODUCT NAME	PROJECT NAME (STATUS, ZONE)	PUBLISHED
--------------	-----------------------------	-----------

Fill in all required information and click *SUBMIT*.

Create partner product

Product Name *

Brief Overview *

Product Description *

Format

B **I**

body p

Content limited to 32768 characters, remaining: 32768

Switch to plain text editor

☐ Use Company Logo

Product Logo

Choose File

No file chosen

Upload

Files must be less than 5 MB.

Allowed file types: png gif jpg jpeg.

Product URL *

Download URL

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If your Product requires more than one container, add the container names separately under Product Version. Example:

Partner Product Versions *

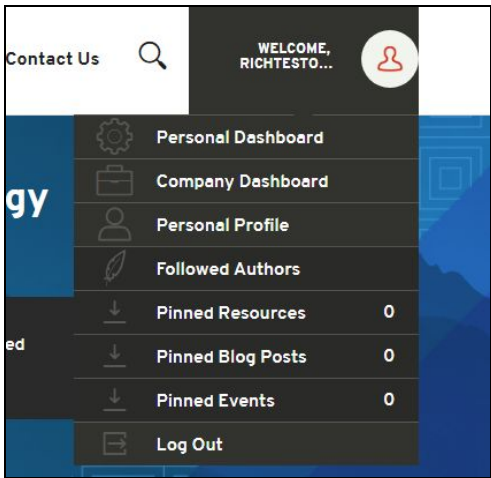
PRODUCT VERSION	OPERATIONS
App 1.x	<div>RemoveEdit</div>
DB 1.x	<div>RemoveEdit</div>
App 5.x	<div>RemoveEdit</div>
<div>Add new Version</div>	

Note: The product information you enter will be used to feed the [certified product catalog](#) after certification is complete and approved by Red Hat, therefore verify all information is correct.

Add a New User to the RHC4TP Account

Login to your RHC4TP account at connect.redhat.com

Click on the *Human* icon at the top right of the page and select *Company Dashboard* from the drop-down menu



Scroll down to *Users* section and click *MANAGE USERS*.

Users

MANAGE USERS

View and manage company users. The five most recently created users are listed.

USER NAME	EMAIL	USER TYPE	DATE CREATED	LAST ACCESSED
Ritchie Bernier	richard.bernier	Org Admin	12/11/2017	12/12/2017

View All Users

Click **ADD NEW USER**

User List

Edit - RichTestOnly2017

Add New User

ACTIVE

INACTIVE

ALL

Displaying 10 users per page

0 users selected from table

Filter

<input type="checkbox"/>	Username	First Name	Last Name	Position	Department	Created	Updated
No user entries were found.							

No user entries were found.

Fill in required information, then click **SAVE**.

Create New User

Return to user list

Name:

Greeting:

* First name:

* Last name:

Suffix:


NOTE: For a User to access software and certification tools, you must check the Organization Administrator (Org Admin) box. Multiple users can be Organization Administrators.

Request Software Access

Log in to your RHC4TP account at connect.redhat.com.

Scroll down to the **As a program member you receive** section and click **LEARN MORE** under **Software access**.


As a program member you receive



Software access

No cost Red Hat software subscriptions (also called NFR's) for our program partners to help grow our joint businesses.


Learn more >



Technical resources

Access information to increase your knowledge about Red Hat Products and Technologies.

Learn more >



Access to zones

Zones are special-interest areas for partners of varying types to get privileged access to information and activities.

Learn more >

On the Red Hat Software Access Page, scroll down to **PLATFORMS** and click **REQUEST SUBSCRIPTION** under the software you need

PLATFORMS

RED HAT ENTERPRISE LINUX

On Premise

Request a subscription of Red Hat Enterprise Linux and Red Hat Virtualization. Access will be granted to your Red Hat account, and you will receive an email notification.

Request Subscription >

PLATFORMS

RED HAT VIRTUALIZATION

On Premise

Request a subscription of Red Hat Virtualization. Access will be granted to your Red Hat account. You will receive emails to notify you about the status of your request. If you have requested access to Red Hat Enterprise Linux through our program, Red Hat Virtualization has already been included.

You will receive an email once software access has been granted.

Access granted software entitlements

Go to access.redhat.com

Click *DOWNLOADS* under Quick links at the bottom of the page

Choose the product family

Then follow the instructions to download

Create a Certification Project

Log in to your RHC4TP account at connect.redhat.com.

Select *ZONES* at the top of the page.

Scroll down to the Zone you wish to create the Project under and click *CREATE A PROJECT*.



Complete the required fields and click *SUBMIT*.

Project Name *

Product *

- Select a Product -

Product Version *

- Select a Version -

Release Category *

Generally Available

Red Hat Product *

- Select a Red Hat Product -

Red Hat Product Version *

- Select a Red Hat Product Version -

SUBMIT

For RHEL & Middleware Projects, complete the Certification Checklist and select *PUBLISH*.

Align	→	Build	→	Validate
<input type="radio"/> Sign the Technology Partner Agreement		<input type="radio"/> Get familiar with Red Hat Enterprise Linux ↗		<input type="radio"/> Verify the functionality of your application on RHEL
<input type="radio"/> Make sure your company profile is current		<input type="radio"/> Review the RHEL ABI compatibility guide ↗		<input type="radio"/> Make sure your product profile is complete for publication
<input type="radio"/> Request access ↗ to Red Hat Enterprise Linux		<input type="radio"/> Determine if Software Collections ↗ are right for your application		<input type="radio"/> Confirm that you commercially support your application on RHEL
<div>PUBLISH</div>				

You will be contacted within 2 business days with the link to the Catalog entry for your Product.

Primed & Container Certification

To find the Checklist for Primed and Container Certification go to your Project Page and select Certification Checklist located on the left menu under Actions.



Primed

Primed is a technical readiness designation for applications that interoperate with OpenShift. Through Primed, partners indicate that they have verified their product’s functionality on OpenShift, taking the first step towards the ongoing commitment of container certification. Primed is also the suggested path for products that integrate with OpenShift but are not packaged as containers.

To achieve the Primed designation, complete the Primed section of the Container Checklist

	Primed ⓘ	Certified ⓘ
Update your company profile	✓	✓
Update your product profile	✓	✓
Submit Primed evidence <small>This is required for Primed but not Certified</small>	<input type="radio"/>	

The check marked box only indicates that the evidence has been submitted, NOT approved. Once the evidence is submitted, it will be reviewed and if your application successfully demonstrates running on the latest release of OpenShift, it will be listed in the OpenShift Primed page found here.

<https://access.redhat.com/openshift-primed/>

NOTE: Primed listing page is being redesigned and will be available soon.

Container Certification Checklist

Certified containers are applications that meet Red Hat’s best practices for packaging, distribution and maintenance. Certified containers imply a commitment from partners to maintain their images up to date and represent the highest level of trust and supportability for Red Hat customers container-capable platforms, including OpenShift

For Container Certification, complete the *Certified* section of the checklist and publish the image. The certified container will be published in the [Red Hat Container Catalog \(RHCC\)](#)

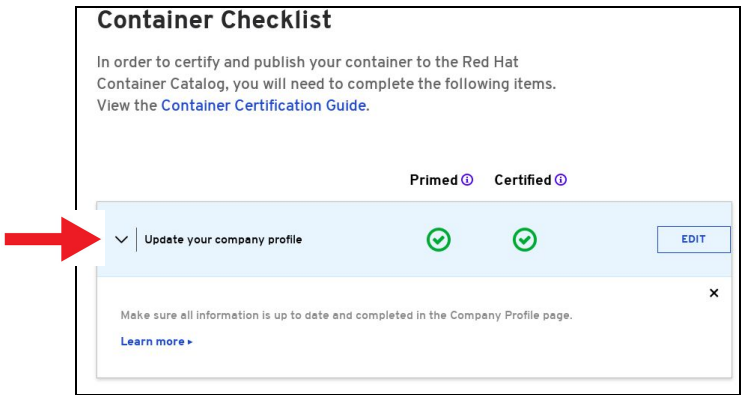
Example of Container Checklist in progress:

	Primed ⓘ	Certified ⓘ	
Update your company profile	✓	✓	EDIT
Update your product profile	✓	✓	EDIT
Submit Primed evidence <small>This is required for Primed but not Certified</small>	○		START
Accept the Red Hat Container Appendix		✓	EDIT
Update your project profile		✓	EDIT
> Package and test your application as a c...		✓	EDIT

Container Checklist

The certified container will be published in the Red Hat Container Catalog (RHCC) along with containers published by Red Hat and those published by other software companies. The RHCC is the public-facing website that showcases the containerized applications suitable for enterprise consumption. RHCC pages will allow for publishing information about the partner company, and company’s products, as well as technical information about the containerized application. There will also be a way to link in assets from the partner company (by URL) that provide additional information about the product, for example a datasheet, a solution brief, a pre-recorded webinar, a case study, etc. The data populating the RHCC is sourced from the Connect site. Therefore, it is important to review the company and product entries on Connect prior to publishing the container to RHCC.

Before your image gets published you must complete the Certification Checklist. Once all items are completed and your image has passed the scan, you will be able to publish to the Red Hat Container Catalog. Each item on the Checklist has more information, you can select the drop down arrow located to the left of each item to Learn More.



Red Hat Partner Logo

To download the *Red Hat Technology Partner logo*, please go to <https://connect.redhat.com/benefits/marketing>

If you have a product certified on Red Hat Technology, please contact us at connect@redhat.com so that we can send you the *Certified Product* logo.

Please contact connect@redhat.com for any questions or concerns.

Uploading your Image

There are two ways to Upload your Image. The recommended approach is through the build service. In order for you to use this, your application must be accessible through GitHub/GitLab. If your application is not accessible through GitHub/GitLab you can also manually upload your image.

Build Service

Build service allows Red Hat to build your container and upload it automatically through the portal. In order for you to use this, your application must be accessible through GitHub/GitLab.

To Use Build Service:

Login to the Portal and go to your projects page

On the left side menu bar, under *Actions*, select BUILD SERVICE

Select the tab *CONFIGURE BUILD SERVICE*

Turn the switch from OFF to ON and fill the necessary information. Use **Auto Rebuild** to automatically rebuild your container when an underlying Red Hat base image is update

Click *SUBMIT* at the bottom of the page

Start New Build

DetailsConfigure Build Service

Configure Build Service

BETA

Red Hat Container Build

Red Hat can automatically build your container.

ON

Auto Rebuild

Automatically rebuild your container when an underlying Red Hat base image is updated. Auto-publish is required and will be enabled when Auto Rebuild is on.

ON

Auto-publish

is always enabled when auto-rebuilding is enabled.

Git Source URL

https://github.com/user_1/myrepo

The URL to the source used for the build. For example "https://github.com/openshift/ruby-hello-world".

Dockerfile Name

Dockerfile

A different filename other than the default Dockerfile (for example, MyDockerfile), or a path to a Dockerfile in a subdirectory (for example, dockerfiles/appl/).

Source Code SSH Key

If the source code repository requires authentication, provide a SSH key to be used for access.

Context Directory

If the application exists within a subdirectory, the default location (the root directory) can be overridden using this field.

Branch

master

The specific Git branch to checkout.

SUBMIT

Select *START NEW BUILD* blue button located on the right side

Create a Tag number and click *SUBMIT*

Tag Name *

An image tag name is subject to the following restrictions:

- Must be valid ASCII.
- Cannot contain special characters other than underscores, periods and hyphens (-).
- Must not start with a period or a hyphen (-).
- Must be 32 characters or less.

Cancel

SUBMIT

Red Hat is now building your container. Once it is completed you can go to Container Project Status to view the Status of your container.

NOTE: The Build Service must first be completed before it can begin the scanning process for certification. If your Build Service fails or does not complete, make sure the details you entered under the Configure Build Service tab is correct

Manually Upload your Image

This information can be located in the UPLOAD YOUR IMAGE tab on the Projects page.

Cut and paste the following line to your terminal.

```
# docker login -u unused -e none scan.connect.redhat.com
```

When prompted for the password copy and paste the **Registry Key** located on the **Upload Your Image** tab in the project. This Registry Key is unique per project, please make sure you are using the correct password for the project you are working on.

Actions

[Container Project Status](#)

[Project Settings](#)

[Certification Checklist](#)

[Build Service](#) BETA

Container Resources

[Container Certification Policy Guide](#)

[Partner Build Service for Containers](#)

[V2 API Guide](#)

Container Information

Upload Your Image

Upload your Image

In order to certify your containerized application, you must first push it to Red Hat's inbound certification registry. Once your image has been pushed to the inbound registry, it will automatically be scanned and the results of the certification test will be available for you to view.

The following commands will allow you to login to the registry, tag your image and push your image.

To view a list of the containers you have pushed, navigate to the "Container Information" tab.

To view scan results, click on the "Detail" link next to any container on the "Container Information" tab.

Container Registry Login:

The inbound certification registry requires authorization. The following command will allow you to authenticate to the registry. You will be prompted for a password. Use the registry key that is provided in the following section. You may also provide a -p [registry] option to prevent the need for interaction, such as for use in a script.

Copied

```
docker login -u unused -e none scan.connect.redhat.com
```

Image Scan

After the image has completed being uploaded, the image will display "Scan In-Progress" in the "Status" column.

CONTAINER IMAGE	STATUS	ACTIONS
1.2-2	Scan In-Progress	View Publish Remove

NOTE: It may be necessary to refresh the browser page to see the current status.

15

Once the image has completed the scan in Red Hat Connect repository, the image will show the results of the scan. Scans normally take about 10-15 minutes to complete.

Actions

[Container Project Status](#)

[Project Settings](#)

[Certification Checklist](#)

[Build Service](#) BETA

Container Resources

[Container Certification Policy Guide](#)

[Partner Build Service for Containers](#)

Container Information

Container Information

CONTAINER IMAGE	STATUS	ACTIONS
1.0	Passed	View Publish Remove
1	Failed	View Publish Remove

Upload Your Image

The “View” button will expand on the scan results. The “Publish” button will publish the image to the Red Hat Container Catalog. It will change to “Unpublish” once an image has been published. The “Remove” button allows you to remove an image that you do not want to use or need anymore.

Image Results

If the image returns a “Failed” scan status, the results will automatically be displayed. Click on the name of the failed item (in this example, “has_licenses”) for reference to the policy guide.

Scan Details

Assessments

Name	Value
has_licenses	X
not_running_privileged	✓
rpm_list_successful	✓
rpm_verify_successful	✓
is_rhel	✓
vendor_label_exists	✓
free_of_critical_vulnerabilities	✓
good_tags	✓
good_layer_count	✓
release_label_exists	✓
not_running_as_root	✓
version_label_exists	✓
name_label_exists	✓

***NOTE:** If you receive an “Access Denied” link when accessing the Policy Guide, please reach out to connect@redhat.com

Export Compliance Questionnaire

Red Hat Export Questionnaire and Resource Links

This section references a set of questions provided by the Red Hat legal team for evaluation of export compliance by third party software vendors.

The resource links and questions should be reviewed and answered by a legal representative of the partner.

Completion and returning this document does not guarantee export compliance approval, but begins the evaluation process by Red Hat.

Depending on the answers provided, a set of follow-up questions may be necessary.

In the event that you have insufficient information to complete the questionnaire, some additional resources are provided in Part 2 below.

- The evaluation process is outlined below:
- Step 1: Red Hat provides questionnaire to partner to complete
 - Step 2: Partner engages their legal team to review and respond to questionnaire
 - Step 3: Partner returns completed questionnaire to Red Hat
 - Step 4: Within approximately 5 business days, Red Hat legal evaluates responses and
 - a. Approves partner
 - b. Defers decision
 - c. Requests more information
 - d. Declines partner

Part I: Red Hat Questionnaire

Please access and complete this [export questionnaire](#).

At this time, Red Hat is NOT able to accept applications that are authorized for export as encryption items under License Exception ENC §740.17(b)(2) and/or License Exception ENC §740.17(a) of the U.S. Export Administration Regulations.

Part II: Resources

In the event that your company has not previously gone through the process of obtaining an export classification, or if you have not gone through this process for the product that you intend to publish in the Red Hat Container Catalog, the U.S. Department of Commerce’s Bureau of Industry and Security provides these resources.

Unfortunately Red Hat cannot provide any guidance or help with our partners’ export control compliance.

EAR/Encryption Overview	https://bis.doc.gov/index.php/1-encryption-on-items-not-subject-to-the-ear/15-policy-guidance/encryption	Guidance for determining whether your item is subject to the EAR.
Encryption items not subject to the EAR	https://bis.doc.gov/index.php/1-encryption-on-items-not-subject-to-the-ear	
Flowchart 1	https://bis.doc.gov/index.php/documents/new-encryption/1654-flowchart1/file	Item designed to use encryption NOT controlled under Category 5, Part 2
Flowchart 2	https://bis.doc.gov/index.php/documents/new-encryption/1655-flowchart-2-1/file	Item classified under an ECCN in Category 5, Part

	<u>e</u>	2
License Exception ENC §740.17/ Mass Market Chart	https://bis.doc.gov/index.php/documents/new-encryption/1651-740-17-enc-table/file	
Chambers & Global - US Export Control Lawyers	http://www.chambersandpartners.com/12788/525/editorial/5/1	
Red Hat Export Control Product Matrix (for example purposes)	https://www.redhat.com/en/about/export-control-product-matrix	

Maintaining Certified Images

Image Maintenance Requirements
As software package vulnerabilities are discovered it is important to rebuild container images to keep them up-to-date. Without automation this process quickly becomes onerous and reflects poorly on the catalog listing. Organizations frequently run vulnerable software but few want to download vulnerable software. It is a requirement of Red Hat Connect Partner Program that the partner maintain the image certification. Red Hat publishes a “Container Health Index” (or CHI) as described here to inform partners about those situations where an image might need to be updated.

The following grades and icons are used with a brief explanation of how they are calculated.

	Grade A: This image does not contain known unapplied errata that fix Critical or Important flaws.
	Grade B: This image may be missing Critical or Important security errata, but no missing Critical flaw is older than 7 days and no missing Important flaw is older than 30 days.
	Grade C: This image may be missing Critical or Important security errata, but no missing Critical flaw is older than 30 days and no missing Important flaw is older than 90 days.
	Grade D: This image may be missing Critical or Important security errata, but no missing Critical flaw is older than 90 days and no missing Important flaw is older than 365 days.
	Grade E: This image may be missing Critical or Important security errata, but no missing Critical or Important flaw is older than 365 days.
	Grade F: This image may be missing Critical or Important security errata, and they are older than 365 days. Or the container is out of its lifecycle.
	Grade Unknown: This image cannot be scanned as it is missing metadata required to perform the Container Health Index calculation.

Reference: <https://access.redhat.com/articles/2803031>

If a container image falls below an "A" grade, a periodic email from connect@redhat.com will be sent out to the partner contact list.

In order to keep the image up to date, it is recommended that the partner use the Red Hat Connect **Build Service** located in the Project section of Red Hat Connect. The option Auto-Rebuild will automatically rebuild your container and automatically publish it.

RED HAT

CONNECT

for technology partners

Zones

About

Contact Us

Start New Build

Actions

Container Project Status

Project Settings

Certification Checklist

Build Service BETA

Details

Configure Build Service

Configure Build Service BETA

Red Hat Container Build

Red Hat can automatically build your container.

ON

Auto Rebuild

Automatically rebuild your container when an underlying Red Hat base image is updated. Auto-publish is required and will be enabled when Auto Rebuild is on.

ON

Auto-publish is always enabled when auto-rebuilding is enabled.

Git Source URL

The only requirement to use this service is that the image bits be accessible via github/gitlab. If the github is internal, ssh access to the bits is required. This service automates the rebuilding of the image whenever an updated Red Hat package is available.

Top 5 FAQs

1. Who can upload images through the Portal?

- A. The administrator account created for your organization may upload images. However, this account may grant permissions to other user accounts so that those accounts may also upload images.

2. Can I change the Product Version after I created a Project?

- A. No you cannot; therefore make sure you set it up correctly before starting any project with that product version. Keep in mind that the product version should be considered as the name of the image, the version can be specified later on when you Tag your image during the project.

3. Can a container be built on another version of Linux other than Red Hat?

- A. No, the Red Hat certification is a validation that the container, which is a combination of application software and Linux, is made of genuine Red Hat parts. Currently, Red Hat has just a little over one million paying customers today. Our customers do not use other versions of Linux and pay us for the services and support we provide to them. Therefore, your container needs to be built on a version of Red Hat Linux.

4. Will the catalog support an ISO or virtual machine image as the container image?

- A. No, this certification process is specifically for containers. Therefore, your image needs to be in Dockerfile format. You can find an example provided by Red Hat Engineering: [Dockerfile Examples](#)

5. What path should my licenses be on?

- A. Should be on / (the root or home directory of where the application resides). You can find an example provided by RH Engineer: [Dockerfile Example](#)

For a full list of FAQs please visit: <http://people.redhat.com/~pchrste/.faq/>

Online Resources

Learn Kubernetes by Example	http://kubernetesbyexample.com/
OpenShift Interactive Learning Portal	https://learn.openshift.com/
Partner Openshift Onboarding Guide	https://www.openshift.com/partners/get-started/index.html
OpenShift Documentation	https://docs.openshift.com/container-platform/
Red Hat Atomic Recommended Practices for Container Development	https://access.redhat.com/articles/1483053
Continuous integration Examples	https://rhsyseng.github.io/containerzone-pipeline-library/#_example_jenkins_pipeline_using_docker
Examples of scan ready Dockerfiles	https://github.com/RHC4TP/starter.git
Docker tagging	https://docs.docker.com/engine/reference/commandline/tag/