Red Hat Enterprise Linux Developer Subscription

This page will provide a procedure for establishing a Red Hat account and developer subscription such that it can be attached to a RHEL installation.

This document is relevant as of 🗓 27 Jan 2017

Background

As of March 2016 Red Hat instituted a program allowing developers to obtain a Red Hat Enterprise Linux subscription at no cost. This program allows for the download of a full-featured version of RHEL and attaching a special developer subscription to the installation.

Prior to this program, developers would either have to use a community-supported distribution of Red Hat (CentOS/Fedora) or consume an enterprise subscription license for Red Hat.

For more details on this program, reference the Red Hat blog post: No-Cost RHEL Developer Subscription now available

> Please note that attaching the Red Hat Developer Subscription to your installation provides access to an extended list of software packages.
>
> The Library's paid enterprise subscription contains a subset of what is available. This means there is a chance that packages you install using the Developer subscription may not be available under the Library's enterprise subscription.
>
> If you determine a package is necessary for the use of your applications that is not available in our enterprise license, we can evaluate the package and get it added to our production subscription.

Red Hat Customer Portal Account

The Customer Portal is the location where you'll manage all of your RHEL servers (Red Hat refers to this as your **inventory**) and the subscriptions attached to each system.

ℹ️ It is important to establish this Customer Portal account first, otherwise you won't be able to link your developer subscription to your RHEL systems.

1. In a web browser, navigate to the URL https://access.redhat.com/

2. At the top-right corner of the page, find the symbol that looks like a little person and click on it.

3. In the menu that drops down, click on the **Register** button. This will bring you to a page to complete all of the registration details.
   For Account Type, choose Personal.
   When complete click the **Submit** button at the bottom of the page.

4. An account confirmation will be sent to the email address you used during registration. You'll need to confirm receipt of this email by clicking on the URL provided in the body of the email.

5. Once your email is confirmed, you'll have to access to your Customer Portal.
   Navigate back to https://access.redhat.com/ and click on the **Subscription** link at the top-left corner of the page. At this point you should have no active subscriptions available and your Subscriber Inventory should be zero.

Developer Account

This step establishes your Red Hat account as a developer and grants you access to the developer subscription.

1. In a web browser, navigate to the URL http://developers.redhat.com/
2. At the top-right corner of the page, find the **Login** link and click on it. ⚠️ Do **not** use the Register link. If you register a new account, it will make it difficult to link the account to your Red Hat Customer Portal.
3. At the Red Hat Developers Login page, use the same credentials you created during the Customer Portal account set-up. Click on the **Login** button.
4. You are taken to a page to enter/verify information about your account and to accept Red Hat's terms/conditions for using a developer subscription.
   Be sure to fill in all required fields and click the check boxes at the bottom of the page, then click Submit.
5. You are taken back to the Developers page you started at. At the top-right corner of the page, find your **username** and click on it.
6. This will bring you to an account edit screen. Notice the following section toward the bottom of the page:

   # Red Hat Developer Program

   ☑ Subscribed ⬅   View Terms & Conditions ⧉
   ┌ Agreement Date ───
   │ Jan 27, 2017

7. This is indicates you successfully subscribed to a Red Hat Developer subscription. This entitles you to the following:
   a. Download current and past versions of Red Hat Enterprise Linux
   b. Entitle 1 physical server and 100 virtual servers with a Red Hat Subscription
8. You may now log-out of the Red Hat Developer Portal.

Verify Developer Subscription Linkage

1. Your Developer Subscription is managed via the Red Hat Customer portal - not the Developer Portal.
2. You can verify your Developer Subscription is linked to your Customer Portal by navigating back to https://access.redhat.com/
   If necessary, login to your account.
3. Click on the Subscriptions link at the top-left corner of the page.
4. You should now see that you have one active subscription.

   ## MY SUBSCRIPTIONS

   1 Active subscriptions ▸   **VIEW ALL**

   Click the **View All** button to be taken to your subscriptions list. You should now see the following:

Display 10 ▾ available subscriptions				Filter:
Subscription Name ▲	Contract Number ⇕	Quantity ⇕	Start Date ⇕	End Date ⇕
Red Hat Enterprise Linux Developer Suite	▓▓▓▓▓	1	2017/01/27	2018/01/26
Displaying available subscriptions 1–1 of 1			|⟨ ⟨ 1 ⟩ ⟩|

5. This confirms your ability to link a RHEL operating system installation to your Developer Subscription.

Attach a Developer Subscription to a RHEL Install

1. This step assumes: you have installed the appropriate version of RHEL, it has a connection to the Internet, and you are at a root

command line prompt.

2. Enter the following command to attach your Developer Subscription to this RHEL installation:

```
# subscription-manager register --auto-attach
--username=YOUR-RHEL-CUSTOMER-PORTAL-USERNAME
```

3. You will be prompted to enter your password - this is the same password you used to log-in to both the RHEL Customer Portal and Developer sites.

4. After entering your password, if system registration and subscription attachment are successful, you should see the following output:

```
The system has been registered with ID:
f10b6f33-4712-4d40-8cb6-df9049a3a469

Installed Product Current Status:
Product Name: Red Hat Enterprise Linux Server
Status:       Subscribed

Product Name: Red Hat Developer Toolset (for RHEL Server)
Status:       Subscribed

Product Name: Red Hat Enterprise Linux Load Balancer (for RHEL Server)
- Extended Update Support
Status:       Subscribed

Product Name: Red Hat Enterprise Linux High Availability (for RHEL
Server) - Extended Update Support
Status:       Subscribed

Product Name: Red Hat Enterprise Linux Server - Extended Update
Support
Status:       Subscribed
```

5. To further verify success, login to your RHEL Customer portal (https://access.redhat.com/) and click on the Subscriptions link.

6. In the Subscriber Inventory section, you should now see one system:

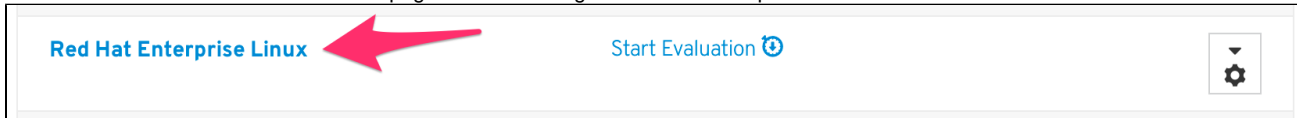**Subscriber Inventory**

Systems   1

Hypervisors   0

7. This confirms subscription attachment and that is included in your inventory.

8. You can now use the `yum` utility to update and/or install desired software.

```
# yum update

# yum install PACKAGE-NAME
```
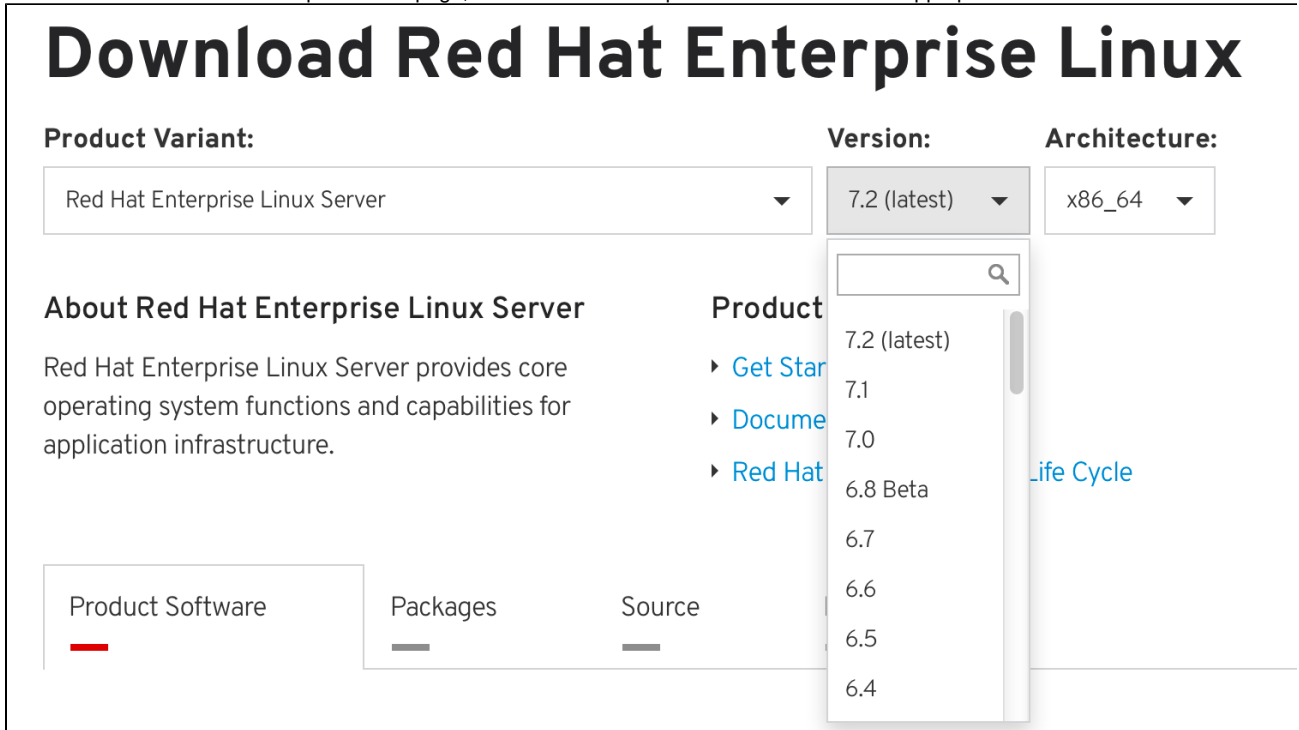
Download Older Version of RHEL

⚠️ If the version of RHEL obtained from http://developers.redhat.com/downloads/ is not the standard supported version used in production by the Library, follow the steps below to obtain the correct version.

1. Determine the appropriate version used in production by the Library by contacting a member of the Development Support or Core Operations teams.

2. Login to your Red Hat Customer Portal (https://access.redhat.com/) and click on the **Downloads** link at the top of the screen.

3. You are taken to the Product Downloads page. Find the listing for Red Hat Enterprise Linux and click on the link:

4. On the Download Red Hat Enterprise Linux page, use the **Version** drop-down box to select the appropriate version:

5. After you make your selection, the page will update the listing of available RHEL software. If you want the full RHEL installer for this version (this uses an example of version 6.7), you would click on the following:

6. A download of the iso image will begin. Use this to perform the installation of RHEL and then return to **Attach a Developer Subscription to a RHEL Install** to link it with your developer subscription.

Subscription Expiration

The RHEL Developer Subscription has an active period of one year, for example:

Subscription Name	Contract Number	Quantity	Start Date	End Date
Red Hat Enterprise Linux Developer Suite		1	2016/04/01	2017/03/31

At the **End Date**, your Developer Subscription is no longer valid. When you log-in to your Red Hat Customer Portal, your Active Subscription count will show zero.

However, your Subscriber Inventory will still contain any systems previously attached to the expired subscription.

Subscription renewal does not occur automatically - you will nee to do this manually after your subscription expires.

To renew your Developer Subscription perform the following steps:

1. In a web browser, navigate to the URL http://developers.redhat.com/
2. At the top-right corner of the page, find the **Login** link and click on it.

3. At the Red Hat Developers Login page, use the same credentials you used to log-in to the RHEL Customer Portal. Click on the **Login** button.

4. You are taken a to a page that asks you to verify your email address. An verification link is sent to your email address.
    a. When the email arrives, click on the link, which should then take you back to the Red Hat Developers page.
    b. At the top-right corner of the page, find your **username** and click on it.

5. This will bring you to an account edit screen. Notice the section toward the bottom of the page showing the new Agreement Date:

Red Hat Developer Program

☑ Subscribed   View Terms & Conditions ⤤

┌─ Agreement Date ──┐
│ Apr 6, 2017   │
└───┘

6. This indicates you successfully renewed your Red Hat Developer subscription.

7. To verify your subscription made it to the Customer Portal - follow the steps in Verify Developer Subscription Linkage

8. From the Red Hat Customer Portal, you'll need to re-attach your renewed subscription to each of the systems in your inventory. When your licensed expired, the subscriptions detached from your systems.

9. Go into your Subscriber Inventory Systems list and you should see each of your hosts has a Subscriptions Attached value of zero.

10. To re-attach the subscription, click on your host and on the next page click on the Run Auto-attach button.

11. When the auto-attach process complete, your host will now have the valid subscription attached.

12. To get this change to propagate down to the host machine, log-in to root and run the command:

```
# subscription-manager refresh
```

This will pull down the latest subscription data.

13. You are now ready to being using the yum utility for installs and updates.