

# Sign up and Register

## Tutorials

- [RH-KM] [Using Red Hat Subscription Management](#)
- [How to enable Red Hat Subscription on RHEL 8/7](#)
- [How to register RHEL 8 with subscription manager using command-line](#)
- [??? RHEL ??????????????????](#)
- [How to activate your no-cost Red Hat Enterprise Linux subscription](#)
- [USING AND CONFIGURING SUBSCRIPTION MANAGER](#)
- [Answers to Common Subscription Questions - Red Hat Customer Portal](#)

## Unregistered Subscription Manager

```
# yum repolist
Updating Subscription Management repositories.

This system is registered to Red Hat Subscription Management, but is not receiving updates.
You can use subscription-manager to assign subscriptions.
```

“ NOTE: ? /etc/yum.repos.d/ ?????????????????? repository????????????? Disable?

## Sign up an account

RedHat ??????????????????

???)

- ????: <https://access.redhat.com/>
- ??????????????????

??? for developer)



```
# port for http proxy server
proxy_port =

# user name for authenticating to an http proxy, if needed
proxy_user =

# password for basic http proxy auth, if needed
proxy_password =
```

## Testing the connectivity to RHN

### Without Proxy

```
curl -v https://subscription.rhn.redhat.com/subscription/ --cacert /etc/rhsm/ca/redhat-uep.pem
```

### With Proxy

```
curl -v --proxy-user user:password --proxy proxy.example.com:8080
https://subscription.rhn.redhat.com/subscription/ --cacert /etc/rhsm/ca/redhat-uep.pem

curl -v --proxy-user user:password --proxy proxy.example.com:8080
https://subscription.rhsm.redhat.com/ --cacert /etc/rhsm/ca/redhat-uep.pem

curl -v --proxy-user user:password --proxy proxy.example.com:8080 https://cdn.redhat.com/ --
cacert /etc/rhsm/ca/redhat-uep.pem
```

```
* Trying 10.14.25.128...
* TCP_NODELAY set
* Connected to tpemispr01.winfoundry.com (10.14.25.128) port 8080 (#0)
* allocate connect buffer!
* Establish HTTP proxy tunnel to subscription.rhn.redhat.com:443
> CONNECT subscription.rhn.redhat.com:443 HTTP/1.1
> Host: subscription.rhn.redhat.com:443
> User-Agent: curl/7.61.1
> Proxy-Connection: Keep-Alive
>
< HTTP/1.1 200 Connection established
<
* Proxy replied 200 to CONNECT request
```

```
* CONNECT phase completed!
* ALPN, offering h2
* ALPN, offering http/1.1
* successfully set certificate verify locations:
*   CAfile: /etc/rhsm/ca/redhat-uep.pem
   CApath: none
* TLSv1.3 (OUT), TLS handshake, Client hello (1):
* CONNECT phase completed!
* CONNECT phase completed!
* TLSv1.3 (IN), TLS handshake, Server hello (2):
* TLSv1.2 (IN), TLS handshake, Certificate (11):
* TLSv1.2 (IN), TLS handshake, Server key exchange (12):
* TLSv1.2 (IN), TLS handshake, Request CERT (13):
* TLSv1.2 (IN), TLS handshake, Server finished (14):
* TLSv1.2 (OUT), TLS handshake, Certificate (11):
* TLSv1.2 (OUT), TLS handshake, Client key exchange (16):
* TLSv1.2 (OUT), TLS change cipher, Change cipher spec (1):
* TLSv1.2 (OUT), TLS handshake, Finished (20):
* TLSv1.2 (IN), TLS handshake, Finished (20):
* SSL connection using TLSv1.2 / ECDHE-RSA-AES256-GCM-SHA384
* ALPN, server accepted to use http/1.1
* Server certificate:
*   subject: C=US; ST=North Carolina; O=Red Hat, Inc.; OU=Red Hat Subscription Management;
CN=subscription.rhsm.redhat.com; emailAddress=ca-support@redhat.com
*   start date: May  7 00:43:39 2020 GMT
*   expire date: May  7 00:43:39 2023 GMT
*   issuer: C=US; ST=North Carolina; O=Red Hat, Inc.; OU=Red Hat Network; CN=Red Hat
Entitlement Operations Authority; emailAddress=ca-support@redhat.com
*   SSL certificate verify ok.
> GET /subscription/ HTTP/1.1
> Host: subscription.rhn.redhat.com
> User-Agent: curl/7.61.1
> Accept: */*
>
< HTTP/1.1 200 OK
< Server: openresty/1.19.9.1
< Date: Wed, 16 Feb 2022 06:26:59 GMT
< Content-Type: application/json
< Transfer-Encoding: chunked
```

```
< Connection: keep-alive
< x-candlepin-request-uuid: 616ae5b2-53a2-4e9d-816e-b359545c4805
< X-Version: 3.2.22-1
<
[{"rel":"consumertypes","href":"/consumertypes"}, {"rel":"distributor_versions","href":"/distributor_versions"}, {"rel":"","href":"/"}, {"rel":"admin","href":"/admin"}, {"rel":"content","href":"/content"}, {"rel":"cdn","href":"/cdn"}, {"rel":"jobs","href":"/jobs"}, {"rel":"crl","href":"/crl"}, {"rel":"deleted_consumers","href":"/deleted_consumers"}, {"rel":"rules","href":"/rules"}, {"rel":"products","href":"/products"}, {"rel":"roles","href":"/roles"}, {"rel":"subscriptions","href":"/subscriptions"}, {"rel":"activation_keys","href":"/activation_keys"}, {"rel":"status","href":"/status"}, {"rel":"consumers","href":"/consumers"}, {"rel":"content_overrides","href":"/consumers/{consumer_uuid}/content_overrides"}, {"rel":"users","href":"/users"}, {"rel":"hypervisors","href":"/hypervisors"}, {"rel":"guestids","href":"/consumers/{consumer_uuid}/guestids"}, {"rel":"entitlements","href":"/entitlements"}, {"rel":"owners","href":"/owners"}, {"rel":"pools","href":"/pools"}, {"rel":"serials","href":"/serials"}, {"rel":"packages","href":"/consume*"}]
Connection #0 to host tpemispr01.winfoundry.com left intact
```

## Register to RHN

```
subscription-manager remove --all
subscription-manager unregister
subscription-manager clean
yum clean all
rm -rf /var/cache/yum/*

# Option#1: With the credentials
subscription-manager register --username myname --password 'ThisPassword'
# Option#2: With an Activation Key
# Create a key from the url https://access.redhat.com/management/activation_keys
subscription-manager register --org=<ORG-ID> --activationkey=<NAME>
```

🗨 Update: ?? `subscription-manager attach` ???????????? SCA (Simple Content Access)????????? <https://access.redhat.com/solutions/7080864>

```
[~]# yum clean all
Updating Subscription Management repositories.
Unable to read consumer identity
```

This system is not registered with an entitlement server. You can use subscription-manager to register.

17 files removed

```
[~]# subscription-manager register --username myuser --password 'mypassword'
```

Registering to: subscription.rhsm.redhat.com:443/subscription

The system has been registered with ID: 36e3da57-5896-488e-ab8e-9f95a48c9f8c

The registered system name is: haproxy.winfoundry.com

```
[~]# yum repolist
```

Updating Subscription Management repositories.

This system is registered with an entitlement server, but is not receiving updates. You can use subscription-manager to assign subscriptions.

```
[~]# subscription-manager attach --auto
```

Installed Product Current Status:

Product Name: Red Hat Enterprise Linux for x86\_64

Status: Subscribed

```
[~]# subscription-manager status
```

```
+-----+
```

System Status Details

```
+-----+
```

Overall Status: Current

System Purpose Status: Matched

```
[~]# yum repolist
```

Updating Subscription Management repositories.

repo id	repo name
rhel-8-for-x86_64-appstream-rpms	Red Hat Enterprise Linux 8 for x86_64 - AppStream (RPMs)
rhel-8-for-x86_64-baseos-rpms	Red Hat Enterprise Linux 8 for x86_64 - BaseOS (RPMs)

## Registered Subscription Manager

```
[~]# yum repolist
```

Updating Subscription Management repositories.

repo id	repo name
rhel-8-for-x86_64-appstream-rpms x86_64 - AppStream (RPMs)	Red Hat Enterprise Linux 8 for
rhel-8-for-x86_64-baseos-rpms x86_64 - BaseOS (RPMs)	Red Hat Enterprise Linux 8 for

?? <https://access.redhat.com/>????????????????

[subscription-registered.png](#)

## Registering an offline system (optional)

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1. **Create a system profile.** From the [systems](#) page in Red Hat Subscription Management, click the New button. Provide the required information to finish creating the new system profile.
2. **Attach subscriptions.** In your newly created system profile, click the Subscriptions tab, and attach any subscriptions you want to use with the system.
3. **Download and import the entitlement certificate(s).** From the Subscriptions tab on your system profile, click Download Certificates to download the entitlement certificate(s) for attached subscriptions. The downloaded file will be in zip format. Extract the content and in /export/entitlement\_certificates/ folder you will find the certificate xyz.pem. Move it to the client system's /tmp directory.

```
# subscription-manager import --certificate=/tmp/Name_Of_Downloaded_Entitlement_Cert.pem
```

## Restoring a registration

??

? System UUID ????????????

```
# subscription-manager register --consumerid=SYSTEM-UUID --username=MYUSER --password=MYPASS
```

## Verifying Subscription

```
[root@haproxy ~]# subscription-manager list
+-----+
      Installed Product Status
+-----+
Product Name:   Red Hat Enterprise Linux for x86_64
```

```
Product ID: 479
Version: 8.3
Arch: x86_64
Status: Subscribed
Status Details:
Starts: 03/02/2022
Ends: 03/02/2023
```

```
[root@haproxy ~]# yum repolist enabled
```

```
Updating Subscription Management repositories.
```

repo id	repo name
rhel-8-for-x86_64-appstream-rpms	Red Hat Enterprise Linux 8 for x86_64 - AppStream (RPMs)
rhel-8-for-x86_64-baseos-rpms	Red Hat Enterprise Linux 8 for x86_64 - BaseOS (RPMs)

## Removing from RHN

### Commands Overview

```
subscription-manager unsubscribe --all
subscription-manager remove --all
subscription-manager unregister
subscription-manager clean
```

Remove all subscriptions,run:

```
# subscription-manager remove --all

1 local certificate has been deleted.
1 subscription removed at the server.
```

To unregister the system from the Red Hat, run:

```
# subscription-manager unregister

Unregistering from: subscription.rhsm.redhat.com:443/subscription
System has been unregistered.
```

To remove all local data from the system, run:

```
# subscription-manager clean
All local data removed
```

?? <https://access.redhat.com/> ??????????????????????????????????

## Update System

```
yum list updates
yum update
```

## FAQ

“ Registering to: subscription.rhsm.redhat.com:443/subscription  
Network error, unable to connect to server. Please see  
/var/log/rhsm/rhsm.log for more information.

Solution: Check the firewall by following the instructions below.

- `subscription.rhn.redhat.com:443 [https]` AND `subscription.rhsm.redhat.com:443 [https]` (This is the new default address in newer versions of RHEL 7)
- `cdn.redhat.com:443 [https]`
- `*.akamaiedge.net:443 [https]` OR `*.akamaitechnologies.com:443 [https]`

It is not recommended to specify the IP addresses because the packages are distributed through the [Akamai](#) network and the IP addresses are subject to change. However, if your firewall is unable to use host name filtering, Red Hat provides a [pool of IP addresses](#) that should provide CDN delivery.

Q: subscription-manager attach --auto

“ Installed Product Current Status:  
Product Name: Red Hat Enterprise Linux for x86\_64  
Status: Not Subscribed

Solution:

1. ?? <https://access.redhat.com/????????????????>
2. ?????? RedHat Developer ?????????????????? **Red Hat Developer Subscription for Individuals** ???????? <https://developers.redhat.com/> ?????????? ??:  
????????????????????????????????
3. ?? `subscription-manager refresh`

“ This system is registered to Red Hat Subscription Management, but is not receiving updates. You can use subscription-manager to assign subscriptions.

Solution:

```
subscription-manager attach --auto
```

Q: subscription-manager is showing Overall Status: Disabled

```
?? subscription-manager status
```

“ Overall Status: Disabled  
Content Access Mode is set to Simple Content Access. This host has access to content, regardless of subscription status.  
  
System Purpose Status: Disabled

??? RHEL ?????? SCA mode (Simple Content Access)????????????????????

```
subscription-manager identity ??? org name ? ID ??????????????????
```

<https://access.redhat.com/solutions/7080864>