

# RHEL{5,6} Workstation to RHEL{5,6} Server migration HOW-TO

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## Document Overview

- This document provides the steps to convert a Red Hat Enterprise Linux {5,6} Workstation system to a Red Hat Enterprise Linux {5,6} Server system
- Steps include Red Hat Subscription Manager and RHN Classic registration.
- Steps to add Extended Life Cycle Support (ELS) are provided at the end.

## Why would customers need to do this?

- ELS is not supported on Workstation.
- Customer thought Workstation was okay to use as a production server.
- Reinstalling the Workstation to Server will take time, money, and could be disruptive.

## Helpful links:

- How to migrate a Red Hat Enterprise Linux System from RHN Classic to RHSM?
  - <https://access.redhat.com/solutions/129723>
- How do I access RHEL 5 ELS content after RHEL 5 transitions to Extended Life Phase?
  - <https://access.redhat.com/articles/2973131>
- FAQ: Red Hat Enterprise Linux 5 Extended Life Cycle Support (ELS) Add-On
  - <https://access.redhat.com/articles/2901061>
- Red Hat Enterprise Linux Life Cycle
  - <https://access.redhat.com/support/policy/updates/errata>

## RHEL5 or RHEL6 using RHSM registration

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You will need a Red Hat Enterprise Linux Server subscription. If your account only has Red Hat Enterprise Linux Workstation subscriptions, you will **not** be able to see the server channel (repository) to download this file.



Change the `redhat-release` package to match the version you are working.

## Quick Steps

- Download server release rpm

- Remove workstation release rpm
- Remove RHSM registration
- Install server release rpm
- Use correct x.509 certs
- Re-register using RHSM

## Detailed Steps

- Visit the Red Hat [Customer Portal](#) or Red Hat Satellite and download the latest `redhat-release` package from the Red Hat Enterprise Linux Server base channel.

### Example:

```
[root@0x83 ~]# ls redhat-release*
redhat-release-5Server-5.11.0.9.x86_64.rpm
```



This package will be different on your Workstation.

```
[root@0x83 ~]# rpm -qa | grep redhat-release
redhat-release-5Client-5.11.0.9
```

- Remove the `redhat-release` workstation rpm.

```
[root@0x83 ~]# rpm -e --nodeps redhat-release-5Client-5.11.0.9
[root@0x83 ~]#
```

- Un-register and clean RHSM files.

```
[root@0x83 ~]# subscription-manager unregister
System has been unregistered.
[root@0x83 ~]# subscription-manager clean
All local data removed
```



The commands above clear information on the Candlepin server related to this system and clears information locally on the system, including the certificate files located `/etc/pki/entitlement` and `/etc/pki/consumer`.

- Install the `redhat-release*` server rpm.

```
[root@0x83 ~]# rpm -ivh redhat-release-5Server-5.11.0.9.x86_64.rpm
Preparing... ##### [100%]
1:redhat-release ##### [100%]
```

- Replace the x.509 product certificates from `Workstation (68.pem)` to `Server (69.pem)`.

```
[root@0x83 ~]# mv /etc/pki/product/68.pem /etc/pki/product-default/
[root@0x83 ~]# mv /etc/pki/product-default/69.pem /etc/pki/product
```

- Re-register the machine with Red Hat Subscription Manager

```
[root@0x83 ~]# subscription-manager register
Username: customer-portal-login
Password:
The system has been registered with ID: 5654c2e1-ec40-40d9-a98f-2530893ca7b2
[root@0x83 ~]# subscription-manager list --available --all
[root@0x83 ~]# subscription-manager attach --pool=8a85f98156b0b7e20156b3367c3b6f6d
Successfully attached a subscription for: Red Hat Employee Subscription
```



The server will now be registered as Red Hat Enterprise Linux Server and will get access to the `rhel-x86_64-server-6` base channel.

## Connecting Red Hat Enterprise Linux 5 systems to ELS content via Red Hat Subscription Management (RHSM)

- Ensure that the system is using 5Server as its release version, as ELS content is only released for the 5Server

```
[root@0x83 ~]# subscription-manager release --set 5Server
```

- Find your ELS subscription.

```
[root@0x83 ~]# subscription-manager list --all --available
+-----+
Available Subscriptions
+-----+
Subscription Name: Red Hat Enterprise Linux Extended Life Cycle Support (Physical or Virtual Nodes)
Provides:         Red Hat Enterprise Linux Server - Extended Life Cycle Support
SKU:              RH00270
Contract:         11260534
Pool ID:          8a99f9835a4887e0015a685ef286223d
Available:        90
Suggested:        1
Service Level:    Layered
Service Type:     L1-L3
Subscription Type: Instance Based
Ends:             02/20/2018
System Type:      Physical
```



Find the `Pool ID` above and attach the subscription.

```
[root@0x83 ~]# subscription-manager attach --pool 8a99f9835a4887e0015a685ef286223d
Successfully attached a subscription for: Red Hat Enterprise Linux Extended Life Cycle Support (Physical or Virtual Nodes)
```

- Enable the ELS repo

```
[root@0x83 ~]# subscription-manager repos --enable rhel-5-server-els-rpms
Repo 'rhel-5-server-els-rpms' is enabled for this system.
```

## RHEL5 or RHEL6 using RHN Classic registration

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### Quick Steps

- Download server release rpm
- Remove workstation release rpm
- Install server release rpm
- Remove old RHN profile
- Re-register to get new rhn profile

### Detailed Steps

- Visit the Red Hat [Customer Portal](#) or Red Hat Satellite and download the latest `redhat-release` package from the [Red Hat Enterprise Linux Server](#) base channel.

#### Example:

```
[root@0x83 ~]# ls redhat-release*
redhat-release-5Server-5.11.0.9.x86_64.rpm
```



This package will be different on your Workstation.

```
[root@0x83 ~]# rpm -qa | grep redhat-release
redhat-release-5Client-5.11.0.9
```

- Remove the `redhat-release` workstation rpm.

```
[root@0x83 ~]# rpm -e --nodeps redhat-release-5Client-5.11.0.9
[root@0x83 ~]#
```

- Install the `redhat-release*` server rpm.

```
[root@0x83 ~]# rpm -ivh redhat-release-5Server-5.11.0.9.x86_64.rpm
Preparing...                               ##### [100%]
 1:redhat-release                           ##### [100%]
```

- Then remove the profile off of RHN or Satellite and re-register the machine.



Log into <https://access.redhat.com> to remove the profile from RHN Classic.

```
[root@0x83 ~]# rhn_register
```



The server will now be registered as `Red Hat Enterprise Linux Server` and will get access to the `rhel-x86_64-server-6` base channel.