

**Method of Procedure (MOP)**

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Table of contents

**Upgrade RHEL 7.x version to RHEL 7.9 ……………………………………………5**

**Upgrade RHEL 7.9 version to RHEL 8.6 ……………………………………………5**

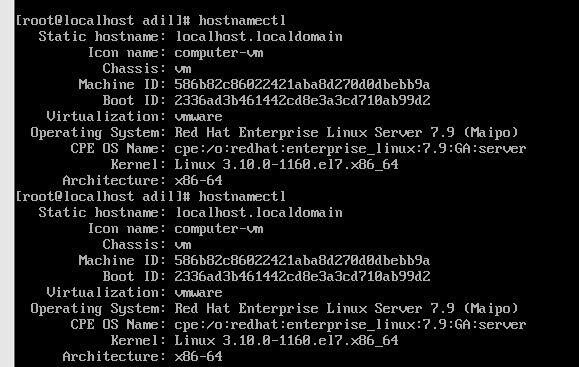
**Upgrade RHEL 7.x version to RHEL 7.9**

Download and install REHL 7 latest version, it’s RHEL 7.9. This is the major version in RHEL 7, and if you are using previous version you have to update it to RHEL 7.9.

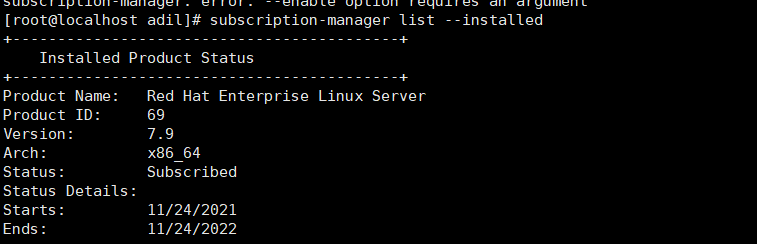
To update the OS use ***yum -y upgrade***

**Upgrade RHEL 7.9 version to RHEL 8.6**

This is a common scenario for any RHEL 7.x version.

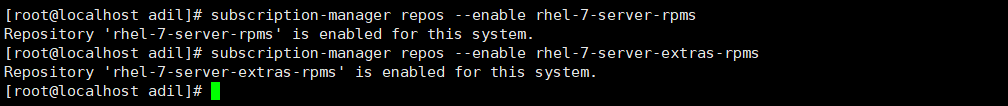


To accomplish the task RHEL 7 need to keep an active subscription.



The important thing is, to upgrade the OS first we need to enable at least these two repositories.

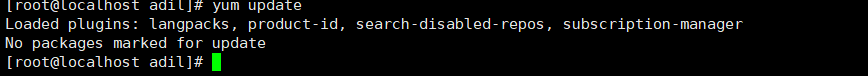
1. rhel-7-server—rpms
2. rhe1-7-server-extras-rpms



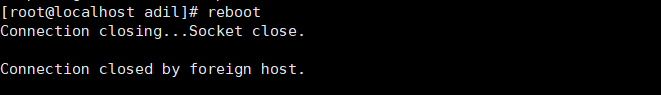
To consume latest packages from rhel 7 repo we need to unset it. So we can get latest releases.



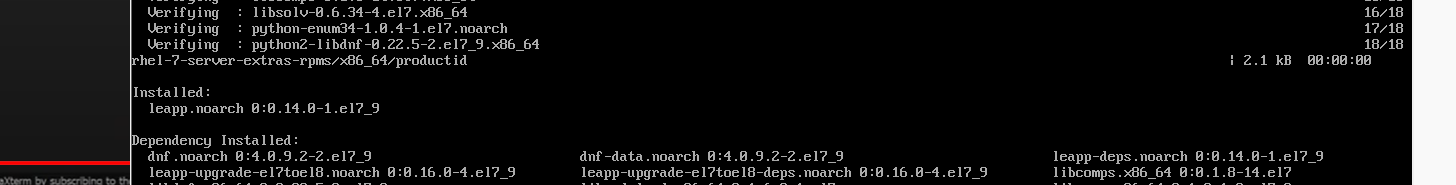
Next, need to update yum repository to download latest version of the packages. Using ***yum update*** command. I have already updated.



After completing these steps, we need to reboot the machine using ***reboot*** command.



After reboot the machine, we need to install **leapp** for the upgrading process. Using ***yum install leapp***

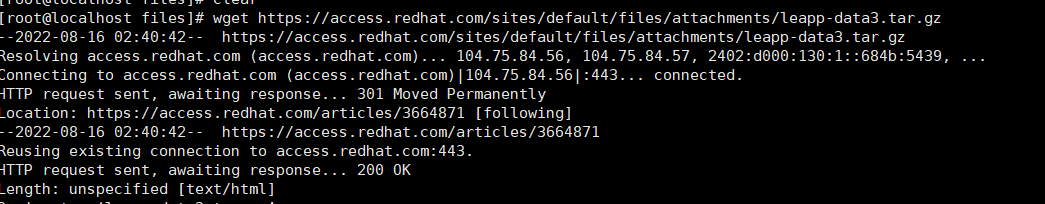


And then download the data files from redhat official web. These are additional required files. The

downloaded link from Community Linux distributions. And then extract in under the /etc/leapp/files

directory. Download the latest version.

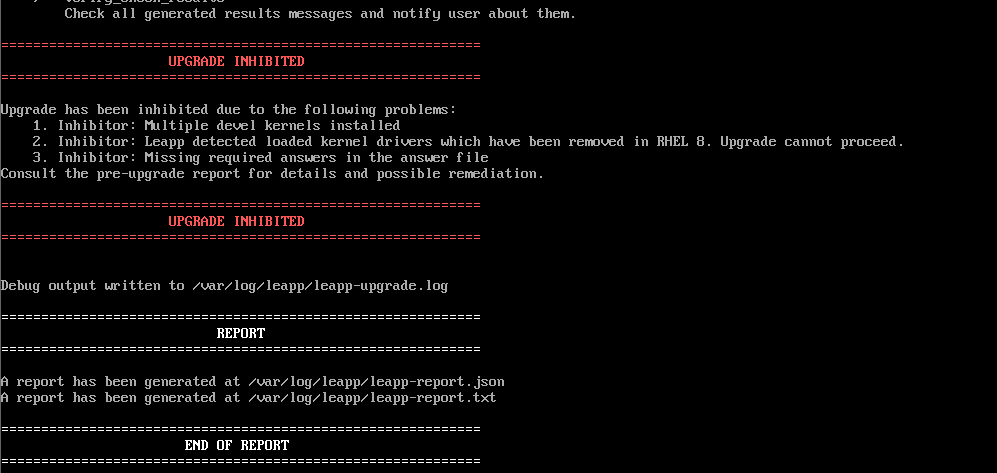
<https://access.redhat.com/articles/3664871>



Finally, we are in the upgrade final steps, type ***leapp upgrade.***

When upgrade the rhel 7 to rhel 8 probably we will get these three issues.

1. Multiple devel kernels installed.
2. Leapp detected loaded kernel drivers which have been removed in RHEL 8. Upgrade cannot proceed.
3. Missing required answers in the answer file.



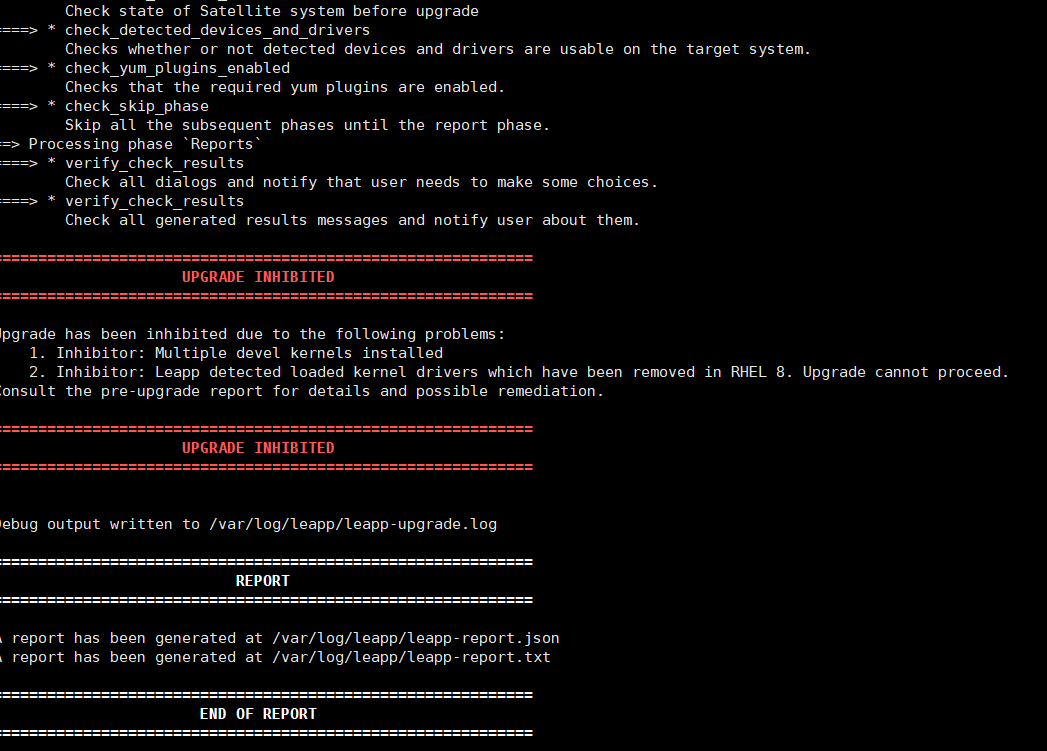
Let encounter those errors.

1. Missing required answers in the answer file.

To encounter this in the terminal,

***leapp answer --section remove\_pam\_pkcs11\_module\_check.confirm=True***

then ***leapp upgrade***



1. Multiple devel kernels installed.

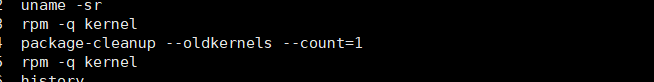
This occurs we had installed multiple kernels. Delete all kernels without the latest one.

For Check the kernels.

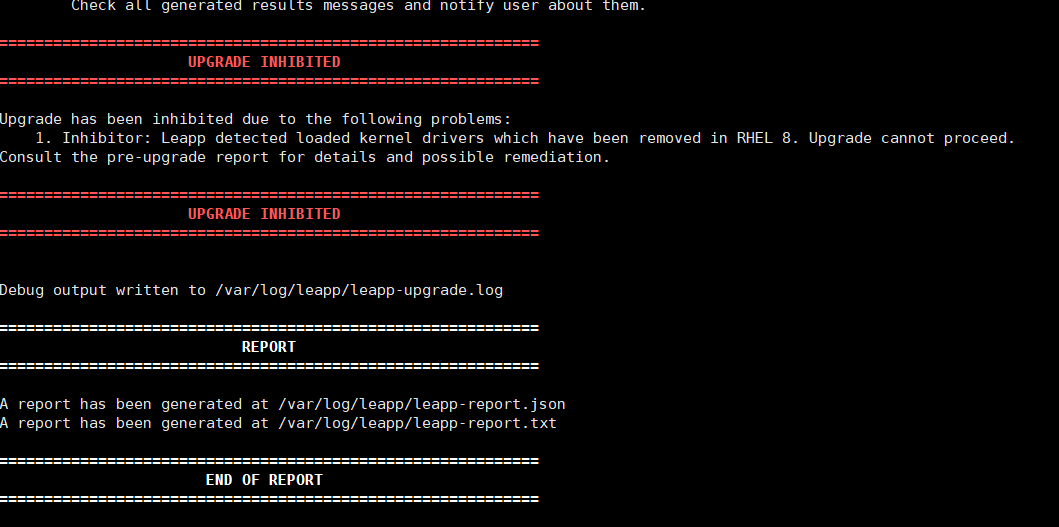
***rpm -q kernel***

delete the oldkernels and by this and mentioned the number of kernels in count that wants to delete.

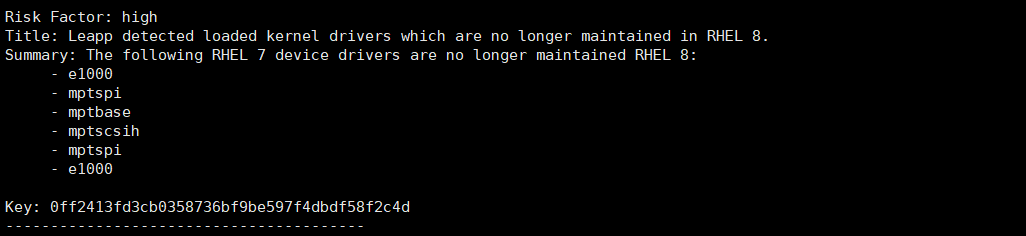
***Package-cleanup –oldkernels --count=<limit>***



Then ***leapp upgrade***



To encounter this error, we need to checkup the report file that generated by the leapp when upgrading. My report like this,

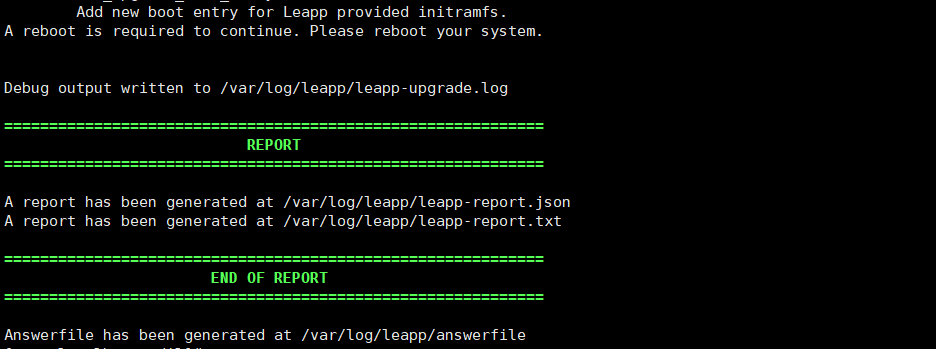


To encounter in the terminal

***rmmod pata\_acpi***

then type ***leapp upgrade***

Finally,



These green marks indicate our upgrade was successful and ***reboot*** the machine. **We got RHEL 8.6**

