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| Do it first in a safe environment | For the Impatient ( TLDR version ) |

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| Upgrade Redhat Enterprise Linux from 7 to 8 for Impatient | | |
| Pre-requisite software  Advantage | Win / Linux | * Install vagrant and virtual box inside your system * Virtual Box 6.1 and Vagrant 2.2.7 were used * Use rpm/yum for linux / exe click installation in Windows or brew in case of MacOs |
| Install the plug-ins required to use in this env | Win / Linux | * vagrant-disksize * use command : vagrant plugin install vagrant-disksize |
| Utilize the git repository to download necessary files | Win / Linux | * <git repository address goes here> |
| Utilize the command to install your rhel 7 | Win / Linux | * vagrant up * \*\* This will install a RHEL 7 with all required filesystem up and running for you. |
| Subscribe the vm in redhat subscription service | Win / Linux | * \*\* you need to have a valid subscription to do that * \*\* you can use your server subscription temporally * subscription-manager repos –list * subscription-manager attach --pool=<pool number> |
| Disable/Enable necessary repositories | Win / Linux | * subscription-manager repos --disable rhel-7-server-rpms --enable rhel-7-server-eus-rpms * subscription-manager repos --enable rhel-7-server-extras-rpms * subscription-manager repos --disable rhel-7-server-optional-rpms --enable rhel-7-server-eus-optional-rpms * subscription-manager repos --disable rhel-7-server-supplementary-rpms --enable rhel-7-server-eus-supplementary-rpms |
| Install the boom boot package | Win / Linux | * yum install lvm2-python-boom |
| Create the lvm snapshot. | Win / Linux | * lvcreate -s **rhel**/root -n root\_snapshot\_rhel7 -L **XXG** * \*\* rhel in the command is VG name change accordingly * XXG is size in GB change to your value |
| Use boom command to put line in grub for the snapshoot | Win / Linux | * boom create --title 'Snapshot - RHEL7, pre-upgrade' --rootlv rhel/root\_snapshot\_rhel7 |
| UPDATE the grub config to understand the change | Win / Linux | * grub2-mkconfig >/boot/grub2/grub.cfg |
| Check if boom output is correct | Win / Linux | * boom list |
| Install necessary packages | Win / Linux | * yum install plugin yum-versionlock |
| Run config commands | Win / Linux | * yum versionlock clear * subscription-manager release --set 7.6 ( or above ) * cat /etc/locale.conf ( needs to be UTF\_8) |
| Install Leapp upgrade tool | Win / Linux | * yum install leap * \*\*erros to install is usually a repository problem ( enable or disable) |
| Need to download needed files | Win / Linux | * Follow the guide bellow: * https://access.redhat.com/articles/3664871 |
| Use the command to upgrade | Win / Linux | * leapp upgrade –debug | tee -a /tmp/upgrade.log |
| Possible errors | Win / Linux | =========================================================  ERRORS  =========================================================  2020-03-20 17:28:29.876813 [ERROR] Actor: verify\_check\_results Message: Detected loaded kernel drivers which have been removed in RHEL 8. Upgrade cannot proceed.  2020-03-20 17:28:29.896745 [ERROR] Actor: verify\_check\_results Message: Possible problems with remote login using root account  =========================================================  END OF ERRORS  ========================================================== |
| How to fix errors | Win / Linux | * The kernel driver error is about e1000 driver, need to change the standard NIC card in Virtual Box to virtio type. * Second error just need to change the PermitRootLogin to yes inside sshd\_config file and restart the service. * If the errors are different, check /var/log/leapp/leapp-report.txt for detail |
| Around 1 hour of upgrade | Win / Linux | * Upgrade will take about an hour to finish and few reboots, * Once done You will reboot into kernel version 4.18 and will be inside RHEL8. |
| “Application” | Win / Linux | * Under /appfs you can run application.sh to simply verify date / version /kernel for the system * You can also boot back to the snapshot taken if something goes south. |

# Heading

References used in this “Guide for the impatient”

<https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/8/html/upgrading_to_rhel_8/preparing-a-rhel-7-system-for-the-upgrade_upgrading-to-rhel-8>

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

<https://bugzilla.redhat.com/show_bug.cgi?id=1692693>