How to upgrade a fresh install of CentOS to ClearOS

2021-07-20: WikiSuite will now support all major Linux distros. Thus, the information below is no longer updated. It may still be valid, or not. It will be eventually removed from this site, so anything relevant should be moved to the appropriate site. For anything related to ClearOS, please search among the following: ClearOS site, code base, Developer docs, Wiki or forum.

Please contact us if you would like to help out.

Determine if CentOS and ClearOS are at the same version

You will need to start with a sparse install of CentOS available. For virtualization providers, find a very minimal instance type to use.

There are two different conditions where it should be possible to convert Centos to ClearOS:
1. If the Centos version is the same as the ClearOS version in the os repo. You can check the clearos-release file in http://mirror1-newyork.clearos.com/clearos/7/os/x86_64/Packages/. If the first two digits of the version are the same or greater than the version of Centos `cat /etc/centos-release` then use the first update method.
2. If the version of ClearOS in the os repo is behind the Centos version, then if the version in the clearos-updates repo is the same as the Centos version then use the second method (a slight tweak to the first). You can check the clearos-release file in https://mirror1-newyork.clearos.com/clearos/7/updates/x86_64/RPMS/.
3. If the Centos version is ahead of the ClearOS version in clearos-updates then you cannot convert Centos to ClearOS

1.1. ClearOS Version in os is the same as Centos

1.1.1. Start here

Login via SSH as root user and do the following:

```
sudo su - # unnecessary if you are already running as root
yum -y remove NetworkManager
# Set SELinux to disabled
sed -i 's/=enforcing/=disabled/' /etc/selinux/config
setenforce 0
```

1.1.2. ClearOS Home and Business

It can be difficult to get business installed on a CentOS system that comes via a virtual platform like AWS because many of them run updates which will give you a very advanced version and depending on the update
cycle, you may not be able to update unless you enable repos. When stuck, find the equivalent step in ClearOS community and run yum with --enablerepo=clearos-updates,clearos-centos and possibly, clearos-centos-updates.

1.1.3. Copy-paste code below depending on your ClearOS version

```bash
mkdir -p /tmp/rpms
cd /tmp/rpms/
curl -LO http://mirror1-newyork.clearos.com/clearos/7/os/x86_64/Packages/$(curl -s http://mirror1-newyork.clearos.com/clearos/7/os/x86_64/Packages/|grep -oh system-base-[0-9]+*.*.rpm"|grep -oh system-base-[0-9]+*.*.rpm)
curl -LO http://mirror1-newyork.clearos.com/clearos/7/os/x86_64/Packages/$(curl -s http://mirror1-newyork.clearos.com/clearos/7/os/x86_64/Packages/|grep -oh clearos-release-[0-9]+*.*.rpm"
|grep -oh clearos-release-[0-9]+*.*.rpm)
curl -LO http://mirror1-newyork.clearos.com/clearos/7/os/x86_64/Packages/$(curl -s http://mirror1-newyork.clearos.com/clearos/7/os/x86_64/Packages/|grep -oh app-base-core-[0-9]+*.*.rpm"
|grep -oh app-base-core-[0-9]+*.*.rpm)
curl -LO http://mirror1-newyork.clearos.com/clearos/7/os/x86_64/Packages/$(curl -s http://mirror1-newyork.clearos.com/clearos/7/os/x86_64/Packages/|grep -oh app-base-[0-9]+*.*.rpm"
|grep -oh app-base-[0-9]+*.*.rpm)
rpm -ivh --nodeps app-base-*
rpm -r /var/cache/yum/
rpm -ivh --nodeps system-base-*.rpm
yum install clearos-release-*.rpm
yum reinstall app-base-*
rpm -rf /var/cache/yum/
yum reinstall system-base
yum reinstall clearos-release
rm -rf /var/cache/yum/
rm -f *.rpm
systemctl stop webconfig
```

1.1.4. Set the root password (should be unnecessary if it is already set)

```bash
passwd
```

1.1.5. Run updates to basics and fixup nameserver then finish updates

```bash
# Run updates to basics and fixup nameserver then finish updates
yum -y update app-base
rm -rf /var/cache/yum/ && yum -y update
rm -rf /var/cache/yum/
echo "nameserver 8.8.8.8" > /etc/resolv.conf
yum -y install app-accounts app-configuration-backup app-dashboard app-date app-dns app-edition app-events app-incoming-firewall app-groups app-language app-log-viewer app-mail app-marketplace app-process-viewer app-software-updates app-ssh-server app-support app-user-profile app-users --enablerepo=clearos-epel
```
systemctl restart syswatch
allow-port -p TCP -d 22 -n SSH
allow-port -p TCP -d 81 -n Webconfig
systemctl start webconfig
systemctl enable webconfig

# Needed on Linode or possibly other installations, but not when converting from a centos iso
install in a vm
# In the Linode Console > Disks/Configs edit the current configuration profile and turn off
"autoconfigure networking" then:
### Begin Linode bit
echo "DEVICE=eth0" >> /etc/sysconfig/network-scripts/ifcfg-eth0
echo "TYPE="Ethernet"" >> /etc/sysconfig/network-scripts/ifcfg-eth0
echo "ONBOOT="yes"" >> /etc/sysconfig/network-scripts/ifcfg-eth0
echo "USERCTL="no"" >> /etc/sysconfig/network-scripts/ifcfg-eth0
echo "BOOTPROTO="dhcp"" >> /etc/sysconfig/network-scripts/ifcfg-eth0
echo "PEERDNS="no"" >> /etc/sysconfig/network-scripts/ifcfg-eth0
echo "nameserver 8.8.8.8" >> /etc/resolv-peerdns.conf
echo "nameserver 8.8.4.4" >> /etc/resolv-peerdns.confreboot
### End Linode bit
reboot

1.2. If ClearOS version in os is behind Centos but
version in clearos-updates is the same

1.2.1. Start here
Login via SSH as root user and do the following:
sudo su - # unnecessary if you are already running as root
yum -y remove NetworkManager
# Set SELinux to disabled
sed -i 's/=enforcing/=disabled/' /etc/selinux/config
setenforce 0
mkdir -p /tmp/rpms
cd /tmp/rpms/
WikiSuite: The most comprehensive and integrated Open Source enterprise solution.


rm -rf /var/cache/yum/

rpm -ivh --nodeps app-base-*

yum reinstall app-base-* --enablerepo=clearos-centos,clearos-centos-updates

rm -rf /var/cache/yum/

yum reinstall system-base

systemctl stop webconfig

# Set a root password so that you can login to Webconfig. may already be done so should be unnecessary

pwd

# Run updates to basics and fixup nameserver then finish updates

yum -y update app-base # may find nothing to do

rm -rf /var/cache/yum/ && yum -y update --enablerepo=clearos-centos,clearos-centos-updates

rm -rf /var/cache/yum/

echo "nameserver 8.8.8.8" > /etc/resolv.conf

yum -y install app-accounts app-configuration-backup app-dashboard app-date app-dns app-edition app-events app-incoming-firewall app-groups app-language app-log-viewer app-mail app-marketplace app-process-viewer app-software-updates app-ssh-server app-support app-user-profile app-users --enablerepo=clearos-epel

systemctl restart syswatch

allow-port -p TCP -d 22 -n SSH

allow-port -p TCP -d 81 -n Webconfig

systemctl start webconfig

systemctl enable webconfig

# Needed on Linode or possibly other installations, but not when converting from a centos iso install in a vm

# In the Linode Console > Disks/Configs you may want to edit the current configuration profile and turn off "autoconfigure networking". Then:

#### Begin Linode bit

echo "DEVICE=eth0" > /etc/sysconfig/network-scripts/ifcfg-eth0

echo "TYPE="Ethernet"" >> /etc/sysconfig/network-scripts/ifcfg-eth0

echo "ONBOOT="yes"" >> /etc/sysconfig/network-scripts/ifcfg-eth0

echo "USERCTL="no"" >> /etc/sysconfig/network-scripts/ifcfg-eth0

echo "BOOTPROTO="dhcpcd"" >> /etc/sysconfig/network-scripts/ifcfg-eth0

echo "PEERDNS="no"" >> /etc/sysconfig/network-scripts/ifcfg-eth0

echo "nameserver 8.8.8.8" > /etc/resolv-peerdns.conf
1.2.2. Periodically check if ClearOS has caught up

For the first 30 days of a Community installation and all the time on Home/Business you will be using the Home/Business repos. If you encounter any problems installing apps from the marketplace, you may need to use the "Software Repository" app from the marketplace and temporarily enable clearos-updates, clearos-epel, clearos-centos and clearos-centos-update to install your chosen app. Disable the repos afterwards when you have installed your apps (but it does not matter if you plan on staying on Community).

This issue goes away in Community after the first 30 days have elapsed, and in Home/Business once the Home/Business version has caught up with Community.

Related links

- https://www.clearos.com/resources/documentation/clearos/content:en_us:kb_convert_centos_to_clearos