

Docker pour Ubuntu



Ubuntu

Voici les versions de ubuntu que Docker supporte :

- Ubuntu Xenial 16.04 (LTS)
- Ubuntu Trusty 14.04 (LTS)
- Ubuntu Precise 12.04 (LTS)

Prérequis

Docker requiert une installation Ubuntu 64-bit installation, quelle que soit la version. Un autre aspect, la version du kernel doit être au minimum 3.10. Ce qui veut dire que toutes les versions au delà de 3.10 sont acceptables.

Les kernels antérieurs à 3.10 ne présentent pas certaines fonctionnalités permettant le fonctionnement de conteneurs Docker. L'installation de Docker sur ces plates formes pourra générer des bugs, des pertes de données et des situations malvenues dans certains cas.

Pour afficher la version courante du kernel, ouvrez un terminal et tapez la commande `uname -r`:

```
$ uname -r  
3.11.0-15-generic
```

Installation

Si toutes les vérifications ont été effectuées, alors vous pouvez commencer l'installation de Ubuntu.

Deux choix se présentent. D'abord vous pouvez directement aller consulter la [documentation de Docker pour Ubuntu](#) sur son site officiel. Vous y trouverez tout le nécessaire pour une bonne compréhension des composants de Docker pour Ubuntu. Les détails de chaque étape d'installation y sont relatés, ainsi que d'autres aspects importants.

Sinon, vous pouvez aussi installer Docker pour Ubuntu en utilisant un fichier script. Dans un premier temps, commencez par télécharger le fichier script en cliquant sur [ce lien](#).

Copiez ce contenu, et créer un fichier nommé « installdocker.sh ». Pour cela, voici les commandes :

On commence d'abord par se positionner sur le répertoire /home.

```
$ cd
```

On crée un répertoire appelé Docker

```
$ sudo mkdir Docker
```

Editer un fichier installdocker.sh

```
$ sudo gedit installdocker.sh
```

Une fois le contenu collé dans le fichier installdocker.sh, alors enregistrez le en appuyant « Ctrl+X ». Appuyez sur la touche Y, ensuite sur « Entrée », s'il vous demande d'enregistrer les modifications apportées à installdocker.sh.

Le contenu du fichier script est donné en annexe. Vous pouvez créer votre fichier installdocker.sh en effectuant un copier-coller avec ce contenu.

Une fois les modifications enregistrées, démarrer l'installation en tapant la commande :

```
$ sudo ./installdocker.sh
```

Suivez l'installation jusqu'à son terme.

```

#!/bin/sh
set -e
url="https://get.docker.com/"
apt_url="https://apt.dockerproject.org"
yum_url="https://yum.dockerproject.org"
gpg_fingerprint="58118E89F3A912897C070ADB76221572C52609D"

key_servers="
ha.pool.sks-keyservers.net
pgp.mit.edu
keyserver.ubuntu.com
"

command_exists() {
    command -v "$@" > /dev/null 2>&1
}

echo_docker_as_nonroot() {
    if command_exists docker && [ -e /var/run/docker.sock ]; then
        (
            set -x
            $sh_c 'docker version'
        ) || true
    fi
    your_user=your-user
    [ "$user" != 'root' ] && your_user="$user"
    # intentionally mixed spaces and tabs here -- tabs are stripped by
    "<<-EOF", spaces are kept in the output
    cat <<-EOF

    If you would like to use Docker as a non-root user, you should now
    consider
    adding your user to the "docker" group with something like:

        sudo usermod -aG docker $your_user

    Remember that you will have to log out and back in for this to take
    effect!

    EOF
}

# Check if this is a forked Linux distro
check_forked() {
    # Check for lsb_release command existence, it usually exists in
    forked distros
    if command_exists lsb_release; then
        # Check if the `-u` option is supported
        set +e
        lsb_release -a -u > /dev/null 2>&1
        lsb_release_exit_code=$?
        set -e
    fi
}

```

```

        # Check if the command has exited successfully, it means
we're in a forked distro
        if [ "$lsb_release_exit_code" = "0" ]; then
            # Print info about current distro
            cat <<-EOF
            You're using '$lsb_dist' version '$dist_version'.
            EOF

            # Get the upstream release info
            lsb_dist=$(lsb_release -a -u 2>&1 | tr '[:upper:]'
'[:lower:]' | grep -E 'id' | cut -d ':' -f 2 | tr -d '[:space:]')
            dist_version=$(lsb_release -a -u 2>&1 | tr
'[:upper:]' '[:lower:]' | grep -E 'codename' | cut -d ':' -f 2 | tr -d
'[:space:]')

            # Print info about upstream distro
            cat <<-EOF
            Upstream release is '$lsb_dist' version
'$dist_version'.
            EOF
        else
            if [ -r /etc/debian_version ] && [ "$lsb_dist" !=
"ubuntu" ] && [ "$lsb_dist" != "raspbrian" ]; then
                # We're Debian and don't even know it!
                lsb_dist=debian
                dist_version="$(cat /etc/debian_version | sed
's/\./.*// ' | sed 's/\..*//')'"
                case "$dist_version" in
                    8|'Kali Linux 2')
                        dist_version="jessie"
                        ;;
                    7)
                        dist_version="wheezy"
                        ;;
                esac
            fi
        fi
    fi
}

rpm_import_repository_key() {
    local key=$1; shift
    local tmpdir=$(mktemp -d)
    chmod 600 "$tmpdir"
    for key_server in $key_servers ; do
        gpg --homedir "$tmpdir" --keyserver "$key_server" --recv-
keys "$key" && break
    done
    gpg --homedir "$tmpdir" -k "$key" >/dev/null
    gpg --homedir "$tmpdir" --export --armor "$key" >
"$tmpdir"/repo.key
    rpm --import "$tmpdir"/repo.key
    rm -rf "$tmpdir"
}

semverParse() {
    major="${1%.*}"
    minor="${1#$major.}"
    minor="${minor%.*}"
    patch="${1#$major.$minor.}"
    patch="${patch%[-.]*}"
}

```

```

do_install() {
    case "$(uname -m)" in
        *64)
            ;;
        armv6l|armv7l)
            ;;
        *)
            cat >&2 <<-'EOF'
            Error: you are not using a 64bit platform or a
Raspberry Pi (armv6l/armv7l).
            Docker currently only supports 64bit platforms or a
Raspberry Pi (armv6l/armv7l).
            EOF
            exit 1
            ;;
    esac

    if command_exists docker; then
        version="$(docker -v | awk -F '[ .]+' '{ print $3 }')"
        MAJOR_W=1
        MINOR_W=10

        semverParse $version

        shouldWarn=0
        if [ $major -lt $MAJOR_W ]; then
            shouldWarn=1
        fi

        if [ $major -le $MAJOR_W ] && [ $minor -lt $MINOR_W ]; then
            shouldWarn=1
        fi

        cat >&2 <<-'EOF'
        Warning: the "docker" command appears to already
exist on this system.

        If you already have Docker installed, this script
can cause trouble, which is
        why we're displaying this warning and provide the
opportunity to cancel the
        installation.

        If you installed the current Docker package using
this script and are using it
        EOF

        if [ $shouldWarn -eq 1 ]; then
            cat >&2 <<-'EOF'
            again to update Docker, we urge you to migrate your
image store before upgrading
            to v1.10+.

            You can find instructions for this here:
            https://github.com/docker/docker/wiki/Engine-
v1.10.0-content-addressability-migration
            EOF
        else
            cat >&2 <<-'EOF'
            again to update Docker, you can safely ignore this
message.

```

```

EOF
fi

cat >&2 <<-'EOF'

        You may press Ctrl+C now to abort this script.
EOF
( set -x; sleep 20 )
fi

user="$(id -un 2>/dev/null || true)"

sh_c='sh -c'
if [ "$user" != 'root' ]; then
    if command_exists sudo; then
        sh_c='sudo -E sh -c'
    elif command_exists su; then
        sh_c='su -c'
    else
        cat >&2 <<-'EOF'
        Error: this installer needs the ability to run
commands as root.
        We are unable to find either "sudo" or "su"
available to make this happen.
        EOF
        exit 1
    fi
fi

curl=''
if command_exists curl; then
    curl='curl -sSL'
elif command_exists wget; then
    curl='wget -qO-'
elif command_exists busybox && busybox --list-modules | grep -q
wget; then
    curl='busybox wget -qO-'
fi

# check to see which repo they are trying to install from
if [ -z "$repo" ]; then
    repo='main'
    if [ "https://test.docker.com/" = "$url" ]; then
        repo='testing'
    elif [ "https://experimental.docker.com/" = "$url" ]; then
        repo='experimental'
    fi
fi

# perform some very rudimentary platform detection
lsb_dist=''
dist_version=''
if command_exists lsb_release; then
    lsb_dist="$(lsb_release -si)"
fi
if [ -z "$lsb_dist" ] && [ -r /etc/lsb-release ]; then
    lsb_dist="$(. /etc/lsb-release && echo "$DISTRIB_ID")"
fi
if [ -z "$lsb_dist" ] && [ -r /etc/debian_version ]; then
    lsb_dist='debian'
fi
if [ -z "$lsb_dist" ] && [ -r /etc/fedora-release ]; then

```

```

        lsb_dist='fedora'
    fi
    if [ -z "$lsb_dist" ] && [ -r /etc/oracle-release ]; then
        lsb_dist='oracleserver'
    fi
    if [ -z "$lsb_dist" ] && [ -r /etc/centos-release ]; then
        lsb_dist='centos'
    fi
    if [ -z "$lsb_dist" ] && [ -r /etc/redhat-release ]; then
        lsb_dist='redhat'
    fi
    if [ -z "$lsb_dist" ] && [ -r /etc/os-release ]; then
        lsb_dist="$(. /etc/os-release && echo "$ID")"
    fi

    lsb_dist="$(echo "$lsb_dist" | tr '[:upper:]' '[:lower:]')"

    # Special case redhatenterpriseserver
    if [ "${lsb_dist}" = "redhatenterpriseserver" ]; then
        # Set it to redhat, it will be changed to centos below
anyways
        lsb_dist='redhat'
    fi

    case "$lsb_dist" in
        ubuntu)
            if command_exists lsb_release; then
                dist_version="$(lsb_release --codename | cut
-f2)"
            fi
            if [ -z "$dist_version" ] && [ -r /etc/lsb-release
]; then
                dist_version="$(. /etc/lsb-release && echo
"$DISTRIB_CODENAME")"
            fi
            ;;
        debian|raspbian)
            dist_version="$(cat /etc/debian_version | sed
's/\./.*// ' | sed 's/\.*// ')"
            case "$dist_version" in
                8)
                    dist_version="jessie"
                    ;;
                7)
                    dist_version="wheezy"
                    ;;
            esac
            ;;
        oracleserver)
            # need to switch lsb_dist to match yum repo URL
            lsb_dist="oraclelinux"
            dist_version="$(rpm -q --whatprovides redhat-release
--queryformat "%{VERSION}\n" | sed 's/\./.*// ' | sed 's/\.*// ' | sed
's/Server*// ')"
            ;;
        fedora|centos|redhat)

```

```

        dist_version="$(rpm -q --whatprovides ${lsb_dist}-
release --queryformat "%{VERSION}\n" | sed 's/\./.*//' | sed 's/\..*//' |
sed 's/Server*//' | sort | tail -1)"
        ;;

    *)
        if command_exists lsb_release; then
            dist_version="$(lsb_release --codename | cut
-f2)"
        fi
        if [ -z "$dist_version" ] && [ -r /etc/os-release ];
then
            dist_version="$(. /etc/os-release && echo
"$VERSION_ID")"
        fi
        ;;

esac

# Check if this is a forked Linux distro
check_forked

# Run setup for each distro accordingly
case "$lsb_dist" in
    amzn)
        (
            set -x
            $sh_c 'sleep 3; yum -y -q install docker'
        )
        echo_docker_as_nonroot
        exit 0
        ;;

    'opensuse project'|opensuse)
        echo 'Going to perform the following operations:'
        if [ "$repo" != 'main' ]; then
            echo ' * add repository
obs://Virtualization:containers'
        fi
        echo ' * install Docker'
        $sh_c 'echo "Press CTRL-C to abort"; sleep 3'

        if [ "$repo" != 'main' ]; then
            # install experimental packages from
OBS://Virtualization:containers
            (
                set -x
                zypper -n ar -f
obs://Virtualization:containers Virtualization:containers
                rpm_import_repository_key
55A0B34D49501BB7CA474F5AA193FBB572174FC2
            )
        fi
        (
            set -x
            zypper -n install docker
        )
        echo_docker_as_nonroot
        exit 0
        ;;

    'suse linux'|sle[sd])

```



```

        echo 'Going to perform the following operations:'
        if [ "$repo" != 'main' ]; then
            echo ' * add repository
obs://Virtualization:containers'
            echo ' * install experimental Docker using
packages NOT supported by SUSE'
        else
            echo ' * add the "Containers" module'
            echo ' * install Docker using packages
supported by SUSE'
        fi
        $sh_c 'echo "Press CTRL-C to abort"; sleep 3'

        if [ "$repo" != 'main' ]; then
            # install experimental packages from
OBS://Virtualization:containers
            echo >&2 'Warning: installing experimental
packages from OBS, these packages are NOT supported by SUSE'
            (
                set -x
                zypper -n ar -f
obs://Virtualization:containers/SLE_12 Virtualization:containers
                rpm_import_repository_key
55A0B34D49501BB7CA474F5AA193FBB572174FC2
            )
        else
            # Add the containers module
            # Note well-1: the SLE machine must already
be registered against SUSE Customer Center
            # Note well-2: the '-r "' is required to
workaround a known issue of SUSEConnect
            (
                set -x
                SUSEConnect -p sle-module-
containers/12/x86_64 -r "
            )
        fi
        (
            set -x
            zypper -n install docker
        )
        echo_docker_as_nonroot
        exit 0
    ;;

ubuntu|debian|raspbian)
    export DEBIAN_FRONTEND=noninteractive

    did_apt_get_update=
    apt_get_update() {
        if [ -z "$did_apt_get_update" ]; then
            ( set -x; $sh_c 'sleep 3; apt-get
update' )
            did_apt_get_update=1
        fi
    }

    if [ "$lsb_dist" = "raspbian" ]; then
        # Create Raspbian specific systemd drop-in
file, use overlay by default
        ( set -x; $sh_c "mkdir -p
/etc/systemd/system/docker.service.d" )

```

```

( set -x; $sh_c "echo
'[Service]\nExecStart=\nExecStart=/usr/bin/dockerd --storage-driver overlay
-H fd:/' > /etc/systemd/system/docker.service.d/overlay.conf" )
else
    # aufs is preferred over devicemapper; try to
ensure the driver is available.
    if ! grep -q aufs /proc/filesystems && !
$sh_c 'modprobe aufs'; then
        if uname -r | grep -q -- '-generic'
&& dpkg -l 'linux-image-*-generic' | grep -qE '^ii|^hi' 2>/dev/null; then
            kern_extras="linux-image-
extra-$(uname -r) linux-image-extra-virtual"

            apt_get_update
            ( set -x; $sh_c 'sleep 3;
apt-get install -y -q "$kern_extras" ) || true

            if ! grep -q aufs
/proc/filesystems && ! $sh_c 'modprobe aufs'; then
                echo >&2 'Warning:
tried to install "$kern_extras" (for AUFS)'
                echo >&2 ' but we
still have no AUFS. Docker may not work. Proceeding anyways!'
                ( set -x; sleep 10 )
            fi
        else
            echo >&2 'Warning: current
kernel is not supported by the linux-image-extra-virtual'
            echo >&2 ' package. We have
no AUFS support. Consider installing the packages'
            echo >&2 ' linux-image-
virtual kernel and linux-image-extra-virtual for AUFS support.'
            ( set -x; sleep 10 )
        fi
    fi
fi

# install apparmor utils if they're missing and
apparmor is enabled in the kernel
# otherwise Docker will fail to start
if [ "$(cat /sys/module/apparmor/parameters/enabled
2>/dev/null)" = 'Y' ]; then
    if command -v apparmor_parser >/dev/null
2>&1; then
        echo 'apparmor is enabled in the
kernel and apparmor utils were already installed'
    else
        echo 'apparmor is enabled in the
kernel, but apparmor_parser missing'
        apt_get_update
        ( set -x; $sh_c 'sleep 3; apt-get
install -y -q apparmor' )
    fi
fi

if [ ! -e /usr/lib/apt/methods/https ]; then
    apt_get_update
    ( set -x; $sh_c 'sleep 3; apt-get install -y
-q apt-transport-https ca-certificates' )
fi
if [ -z "$curl" ]; then
    apt_get_update

```

```

( set -x; $sh_c 'sleep 3; apt-get install -y
-q curl ca-certificates' )
    curl='curl -sSL'
fi
(
set -x
for key_server in $key_servers ; do
    $sh_c "apt-key adv --keyserver
hkp://${key_server}:80 --recv-keys ${gpg_fingerprint}" && break
done
$sh_c "apt-key adv -k ${gpg_fingerprint} >/dev/null"
$sh_c "mkdir -p /etc/apt/sources.list.d"
$sh_c "echo deb \[arch=$(dpkg --print-
architecture)\] ${apt_url}/repo ${lsb_dist}-${dist_version} ${repo} >
/etc/apt/sources.list.d/docker.list"
$sh_c 'sleep 3; apt-get update; apt-get install -y -
q docker-engine'
)
echo_docker_as_nonroot
exit 0
;;

fedora|centos|redhat|oraclelinux)
    if [ "${lsb_dist}" = "redhat" ]; then
        # we use the centos repository for both
redhat and centos releases
        lsb_dist='centos'
    fi
    $sh_c "cat >/etc/yum.repos.d/docker-${repo}.repo"
<<-EOF
[docker-${repo}-repo]
name=Docker ${repo} Repository

baseurl=${yum_url}/repo/${repo}/${lsb_dist}/${dist_version}
enabled=1
gpgcheck=1
gpgkey=${yum_url}/gpg
EOF
if [ "${lsb_dist}" = "fedora" ] && [ "${dist_version}" -
ge "22" ]; then
    (
        set -x
        $sh_c 'sleep 3; dnf -y -q install
docker-engine'
    )
else
    (
        set -x
        $sh_c 'sleep 3; yum -y -q install
docker-engine'
    )
fi
echo_docker_as_nonroot
exit 0
;;
gentoo)
    if [ "$url" = "https://test.docker.com/" ]; then
        # intentionally mixed spaces and tabs here --
tabs are stripped by "<<-'EOF'", spaces are kept in the output
        cat >&2 <<-'EOF'

```

```

latest nightly build in Gentoo.'
stable release of Docker, but'
always use the live ebuild'
via layman. For more'
URL:'

overlay#using-this-overlay'

should be able to:'

You appear to be trying to install the
The portage tree should contain the latest
if you want something more recent, you can
provided in the "docker" overlay available
instructions, please see the following

https://github.com/tianon/docker-

After adding the "docker" overlay, you

emerge -av =app-emulation/docker-9999'

EOF
exit 1
fi

(
    set -x
    $sh_c 'sleep 3; emerge app-emulation/docker'
)
exit 0
;;

esac

# intentionally mixed spaces and tabs here -- tabs are stripped by
"<<-'EOF'", spaces are kept in the output
cat >&2 <<-'EOF'

Either your platform is not easily detectable, is not supported
by this
installer script (yet - PRs welcome! [hack/install.sh]), or does
not yet have
a package for Docker. Please visit the following URL for more
detailed
installation instructions:

https://docs.docker.com/engine/installation/

EOF
exit 1
}

# wrapped up in a function so that we have some protection against only
getting
# half the file during "curl | sh"
do_install

```