Installing Mt Wilson as Non-Root User

**Configuration**

The following variables must be defined in order to install mtwilson as root or later run mtwilson as non-root:

export MTWILSON\_HOME=/opt/mtwilson

export MTWILSON\_USERNAME=mtwilson

mtwilson upgrade from previous 2.x versions is currently not supported.

**Actions to take as root before installation**

**Install required packages**

**SUSE**

Use either zypper or yast:

Postgres:

zypper install zip unzip openssl authbind dpkg-dev make gcc openssl libssl-dev monit authbind postgresql-9.3

mysql:

zypper install zip unzip openssl authbind dpkg-dev make gcc openssl libssl-dev monit authbind mysql-server mysql-client

Optional Packages:

logrotate monit

Postgres:

yast -i openssl zip unzip openssl authbind dpkg-dev make gcc openssl libssl-dev monit authbind postgresql-9.3

Mysql:

yast -i openssl zip unzip openssl authbind dpkg-dev make gcc openssl libssl-dev monit authbind mysql-server mysql-client

Optional Packages:

logrotate monit

**RedHat and Fedora**

Use yum:

Postgres:

yum -y install zip unzip openssl authbind dpkg-dev make gcc openssl libssl-dev monit authbind postgresql-9.3

Mysql:

yum -y install zip unzip openssl authbind dpkg-dev make gcc openssl libssl-dev monit authbind mysql-server mysql-client

Optional Packages:

logrotate monit

**Ubuntu**

Use apt-get:

Postgres:

apt-get -y install zip unzip openssl authbind dpkg-dev make gcc openssl libssl-dev monit authbind postgresql-9.3

Mysql:

apt-get -y install zip unzip openssl authbind dpkg-dev make gcc openssl libssl-dev monit authbind mysql-server mysql-client

Optional Packages:

logrotate monit

**Disable monit temporarily**

*This step is only necessary if Monit is already installed and monitoring mtwilson*

Remove existing Monit configuration for mtwilson:

rm -f ${MTWILSON\_HOME}/monit/conf.d/\*

Restart Monit to apply changes:

service monit restart

**Create Mt Wilson User**

The following commands create a home directory and user for the mtwilson user. The shell is set to BASH so you can login as this user and perform the installation. However, it is recommended to lock the account after installation, and this is described in the section “Actions to take as root after installation”.

mkdir -p $MTWILSON\_HOME

useradd --comment "Mt Wilson" --home $MTWILSON\_HOME --system --shell /bin/bash $MTWILSON\_USERNAME

chown -R $MTWILSON\_USERNAME:$MTWILSON\_USERNAME $MTWILSON\_HOME

**Create Additional Directories and Set Permissions**

The following commands create additional required directories and set the required permissions so that the mtwilson user can properly access.

mkdir -p /opt/intel /opt/mtwilson /var/opt/intel /usr/local/share/mtwilson /etc/intel/cloudsecurity

chown -R $MTWILSON\_USERNAME:$MTWILSON\_USERNAME /opt/intel /opt/mtwilson /var/opt/intel /usr/local/share/mtwilson /etc/intel

**Postgresql Configuration**

Define variables (default values provided here):

POSTGRES\_USERNAME=$MTWILSON\_USERNAME

POSTGRES\_PASSWORD="password"

POSTGRES\_DATABASE="mw\_as"

Update the following line in /etc/postgresql/9.3/main/pg\_hba.conf:

host all all 127.0.0.1/32 password

Update the following line in /etc/postgresql/9.3/main/postgresql.conf:

listen\_addresses = '127.0.0.1'

Create the mtwilson user for postgresql:

sudo -u postgres psql postgres -c "CREATE USER $POSTGRES\_USERNAME WITH PASSWORD '$POSTGRES\_PASSWORD';"

**Mysql Configuration**

Define variables (default values provided here):

MYSQL\_USERNAME=$MTWILSON\_USERNAME

MYSQL\_PASSWORD="password"

MYSQL\_ROOT\_USERNAME="root"

MYSQL\_ROOT\_PASSWORD="password"

MYSQL\_DATABASE="mw\_as"

create database

mysql -u $MYSQL\_ROOT\_USERNAME -p$MYSQL\_ROOT\_PASSWORD -e "create database $MYSQL\_DATABASE;"

Create user

mysql -u $MYSQL\_ROOT\_USERNAME -p$MYSQL\_ROOT\_PASSWORD -e "create USER '$MYSQL\_USERNAME'@'localhost' identified by '$MYSQL\_PASSWORD';"

Allow user $MYSQL\_USERNAME to connect to the server from localhost using the $MYSQL\_PASSWORD

mysql -u $MYSQL\_ROOT\_USERNAME -p$MYSQL\_ROOT\_PASSWORD -e "GRANT USAGE ON \*.\* TO '$MTWILSON\_USERNAME'@'localhost' identified by '$MTWILSON\_PASSWORD';"

Grant all privileges on the $MYSQL\_DATABASE database to $MYSQL\_USERNAME

mysql -u $MYSQL\_ROOT\_USERNAME -p$MYSQL\_ROOT\_PASSWORD -e "GRANT ALL PRIVILEGES ON $MYSQL\_DATABASE.\* TO '$MYSQL\_USERNAME'@'localhost' identified by '$MYSQL\_PASSWORD';"

Copy mysql-connector to $MTWILSON\_HOME

cp mysql-connector-java-5.1.22.jar $MTWILSON\_HOME

**Configure firewall**

Ensure the system firewall has port 8443 open for the mtwilson tomcat webserver

**Configure authbind**

*This step is only necessary if Mt Wilson will be configured to use privileged ports such as 80 and 443; the default tomcat webserver port 8443 is non-privileged and does not require use of authbind.*

The following commands allow mtwilson to listen on port 443:

mkdir -p /etc/authbind/byport

touch /etc/authbind/byport/443

chown $MTWILSON\_USERNAME /etc/authbind/byport/443

chmod 500 /etc/authbind/byport/443

**Run Mt Wilson Installer as non-root**

First copy the mtwilson.env file into $MTWILSON\_HOME (created earlier):

cp mtwilson.env $MTWILSON\_HOME

Update any system specific variables in mtwilson.env.

Make sure installer and mtwilson.env file have correct permissions to be accessed by mtwilson user:

chown $MTWILSON\_USERNAME:$MTWILSON\_USERNAME mtwilson-server-2.0.6-jdk\_glassfish\_monit.bin

chown $MTWILSON\_USERNAME:$MTWILSON\_USERNAME mtwilson.env

Switch to the mtwilson user and run the installer:

su - $MTWILSON\_USERNAME

./mtwilson-server-2.0.6-jdk\_glassfish\_monit.bin

**Running Mt Wilson as non-root**

export PATH=$MTWILSON\_HOME/bin:$PATH

mtwilson start

**Actions to take as root after installation**

**Locking Mt Wilson account**

If you set up mtwilson to launch automatically as non-root on every reboot, or have a watchdog/supervisor process for ensuring that it’s running, so that you don’t need to login to the mtwilson user account itself, then you should lock that account:

usermod --lock $MTWILSON\_USERNAME --shell /bin/false

**Register Mt Wilson startup script (as root)**

ln -s $MTWILSON\_HOME/bin/mtwilson /etc/init.d/mtwilson

**RedHat, Fedora, and SUSE**

chkconfig --add mtwilson

**Ubuntu**

update-rc.d mtwilson defaults