Patching procedure

QVD TEAM

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November 8, 2018

Contents

Important

The normal patches doesn't need databases upgrade, but someones does. Check the patches reference table to know when it will be necessary.

Patches reference table

Current version	Target version	Database changes	Available to
3.5.x	3.5.x	No	Community
4.0.x	4.0.x	No	Community
4.1.0	4.1.1	No	Self-support & Enterprise subscriptions
4.1.0-4.1.1	4.1.2	Yes	Self-support & Enterprise subscriptions

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Note

It is possible to apply not consecutive patches as long as database changes are made, if were necessary

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Note

This manual is an example of how to patch 4.1.0 to 4.1.1. Replace those versions to specific ones of the current installation and the patch that you need to apply.

Chapter 1

Stop services

First of all, we need to stop all qvd running virtual machines and services

```
qa4 vm stop
service qvd-hkd stop
service qvd-api stop
```

Chapter 2

Upgrade packages

After that, upgrade to QVD 4.1.1:

⚠️ **Important**

If the patch version is not availabe to community, go to Commercial packages section to upgrade. Check the Patches reference table if you don't know the type of patch that you want to apply.

Community patches

For community patches, please, use the following commands:

Ubuntu

```
echo "deb http://theqvd.com/packages/ubuntu-xenial QVD-4.1.1 main" > /etc/apt/sources.list. ←
    d/qvd4.1_repo.list
apt-get update -o Dir::Etc::sourcelist=sources.list.d/qvd4.1_repo.list -o Dir::Etc:: ←
    sourceparts="-" -o APT::Get::List-Cleanup="0"
apt-get upgrade -o Dir::Etc::sourcelist=sources.list.d/qvd4.1_repo.list -o Dir::Etc:: ←
    sourceparts="-" -o APT::Get::List-Cleanup="0"
```

SLES

```
zypper rr QVD
zypper ar http://theqvd.com/packages/sles/12SP1/QVD-4.1.1 QVD
zypper ref
sudo zypper update --repo QVD
```

Centos

```
yum-config-manager --add-repo http://theqvd.com/packages/centos/7.2/QVD-4.1.1/
yum --disablerepo="*" --enablerepo="theqvd.com/packages/centos/7.2/QVD-4.1.1/" update
```

Commercial patches

For commercial patches, please, use the following commands:

Ubuntu

```
echo "deb http://$USER:$PASSWORD@theqvd.com/commercial-packages/ubuntu/xenial QVD-4.1.1  ←
    main" > /etc/apt/sources.list.d/qvd4.1_repo.list
apt-get update -o Dir::Etc::sourcelist=sources.list.d/qvd4.1_repo.list -o Dir::Etc:: ←
    sourceparts="-" -o APT::Get::List-Cleanup="0"
apt-get upgrade -o Dir::Etc::sourcelist=sources.list.d/qvd4.1_repo.list -o Dir::Etc:: ←
    sourceparts="-" -o APT::Get::List-Cleanup="0"
```

SLES

```
zypper rr QVD
zypper ar http://theqvd.com/commercial-packages/sles/12SP1/QVD-4.1.1 QVD
zypper ref
 User Name: $USER
 Password: $PASSWORD
sudo zypper update --repo QVD
```

Centos

```
echo "[QVD-4.1.1]" > /etc/yum.repos.d/QVD-4.1.1.repo
echo "name=QVD-4.1.1" >> /etc/yum.repos.d/QVD-4.1.1.repo
echo "baseurl=http://$USER:$PASSWORD@theqvd.com/commercial-packages/centos/7.2/QVD-4.1.1/"  ←
    | sed 's/@\(.*@\)/%40\1/' >> /etc/yum.repos.d/QVD-4.1.1.repo
echo "enabled=1" >> /etc/yum.repos.d/QVD-4.1.1.repo
yum --disablerepo="*" --enablerepo="QVD-4.1.1" update
```

Note

$USER and $PASSWORD are the credentials received when the suscription is purchased.

Important

If database changes are not necessary, upgrade is concluded. Otherwise, please, keep on reading.

Chapter 3

Backup

Upgrade the database schema keeping all the data and configuration is simple, but before doing the procedure is highly recommended to generate a backup in case something goes wrong. In order to generate the backup execute the following commands:

```
sudo su postgres
pg_dump qvd > /tmp/qvddb4.1.0.backup
exit
```

Note

Replace *qvd* from pg_dump command by your QVD database name if necessary

Chapter 4

Upgrade database

Finally update the database with 4.1.1 schema:

```
sudo su postgres
psql -d qvd -c "DELETE FROM versions WHERE component='schema'"
psql -d qvd -c "DELETE FROM session"
exit
/usr/lib/qvd/bin/perl /usr/lib/qvd/bin/qvd-deploy-db.pl --update-schema --update-from 4.1  ←
    --file /usr/lib/qvd/bin/qvd-init-data.dat
```

> **Note**
> Replace *qvd* from psql commands by your QVD database name if necessary

> **Note**
> Replace 4.1 by the QVD major version affected by the patch (I.E.: 4.2, 4.3, 5.0...)

Chapter 5

Database rollback

If during the upgrade something went wrong, just reinstall QVD 4.1.0, and if the database achieved an invalid state you can recover it by executing:

```
cat /tmp/qvddb4.1.0.backup | psql dbname
```