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[Best practice] Qlik Sense upgrade steps from November 2017+ to later versions

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Description

This article provides the best practice on how to perform upgrade of Qlik Sense from November 2017+ to later versions. We are using February 2019 and its later patch version as an example.

For installation assistance, see our STT Worry Free Installation of Qlik Sense.
For general upgrade advice and troubleshooting help, see Troubleshooting your Qlik Sense upgrade.

Prerequisite

- You are on Qlik Sense November 2017 or later version
- If you are on Qlik Sense prior to June 2018 version and running standalone database, please create **QSMQ** and **SenseServices** databases before upgrade. Please refer to the **Installing and configuring PostgreSQL** section of the Help site.

Resolution

Back up

up the entire folder. This path is printed in the Service Cluster section of the QMC

3. Back up the Repository Database

- Stop all of the Qlik Sense Services except Repository Database service
- Log on to Windows of Repository Database of Production. Run below command line in command prompt.

```
cd / & mkdir QSR & "C:\Program
Files\PostgreSQL\9.6\bin\pg_dump.exe" -h localhost -p
4432 -U postgres -b -F t -f
"c:\QSR\QSR_backup_%date:~-4,4%%date:~-10,2%%date:~-7,2%.tar
QSR
```

 Note: Above command line is example when Repository DB is installed on `C:\Program Files\PostgreSQL`. Please modify the path based on your environment.

Upgrade Qlik Sense

1. Stop all Qlik Sense Services on rim nodes.

2. Stop all of the Qlik Sense Services on Central node except for Qlik Repository Database Service. Make sure it remains running.

3. On the Central node for Qlik Sense, run the Qlik Sense February 2019 IR installer as administrator.

4. Follow these upgrade steps:

   1. Right click Qlik Qlik Sense February 2019 Installer and select **Run as administrator**

   2. **Upgrade** windows displays. Press Upgrade button

   3. **License Agreement** window displays. Tick **I accept the license agreement** and select **Next.**

   4. **Service Credentials** window displays. Enter Password of the service account which you run Qlik Sense Services. Then select **Next**
      Note: In this example, domain\administrator is used to run Qlik Sense Services

   5. The Ready to upgrade window displays. Tick all desired options and then click **Next.**

4. License Agreement window displays, tick **I accept the license agreement** and select
   Upgrade

5. After upgrade, open the QMC to ensure that the apps migrated successfully

6. Open the Hub to validate connectivity

7. Run the Qlik Sense February 2019 IR installer as administrator on all RIM nodes

Apply February 2019 patch

1. Stop all of the Qlik Sense Services

2. On the Central node for Qlik Sense, run the Qlik Sense February 2019 Patch installer as
   administrator

3. On the Rim nodes for Qlik Sense, run the Qlik Sense February 2019 Patch installer as
   administrator

After the upgrade - increase the Setting: max_connections to higher value

max_connections

1. Stop all of the Qlik Sense services including Repository Database service

2. Open `postgresql.conf` of PosgreSQL DB (Repository Database)

   Note: when you have standalone PosgreSQL DB installed, default location of
   `postgresql.conf` is `C:\Program Files\PostgreSQL\9.6\data` of
   windows of posgreSQL DB.

3. Change `max_connections = 110*[the number of nodes]` (3 nodes:
   `110*3`)

4. Save the file and restart all of the Qlik Sense Services including Repository Database
   service

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