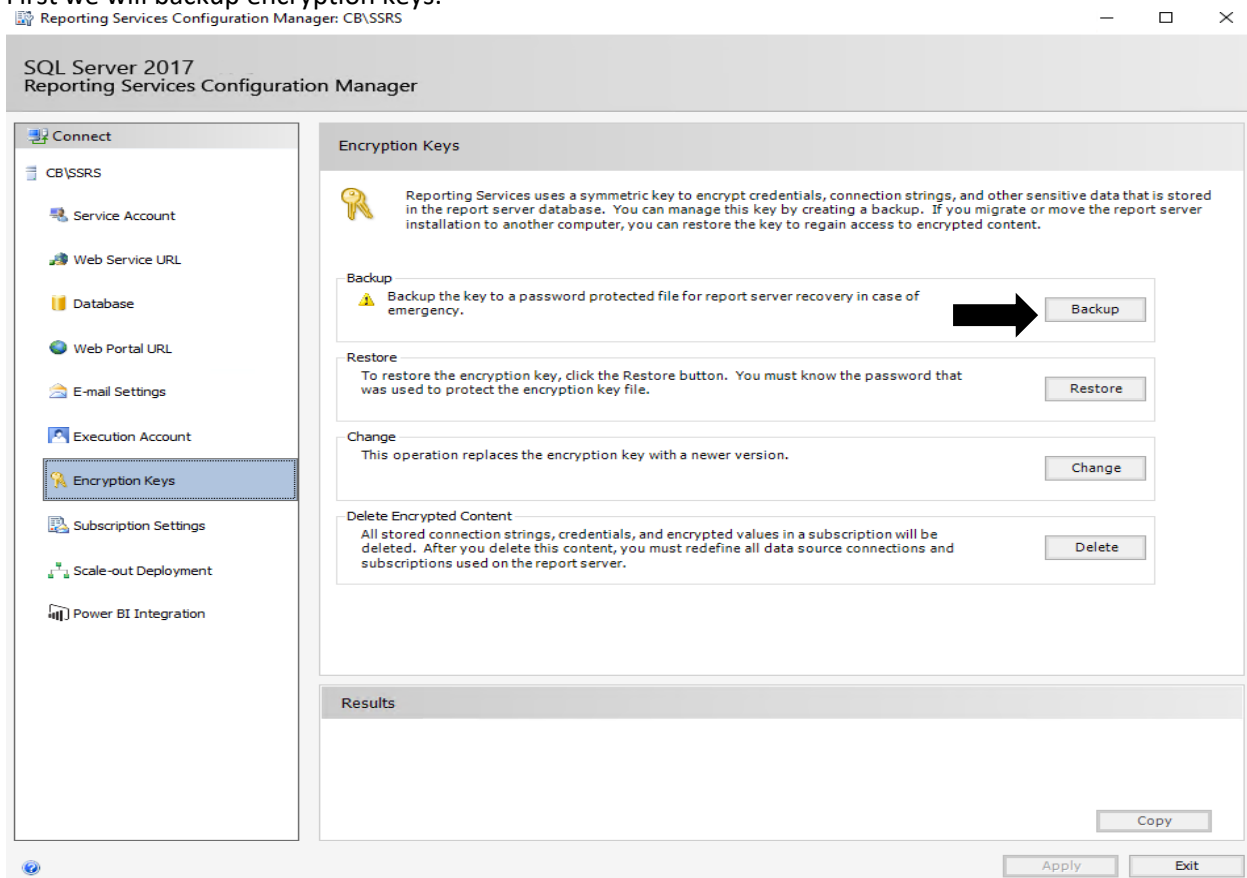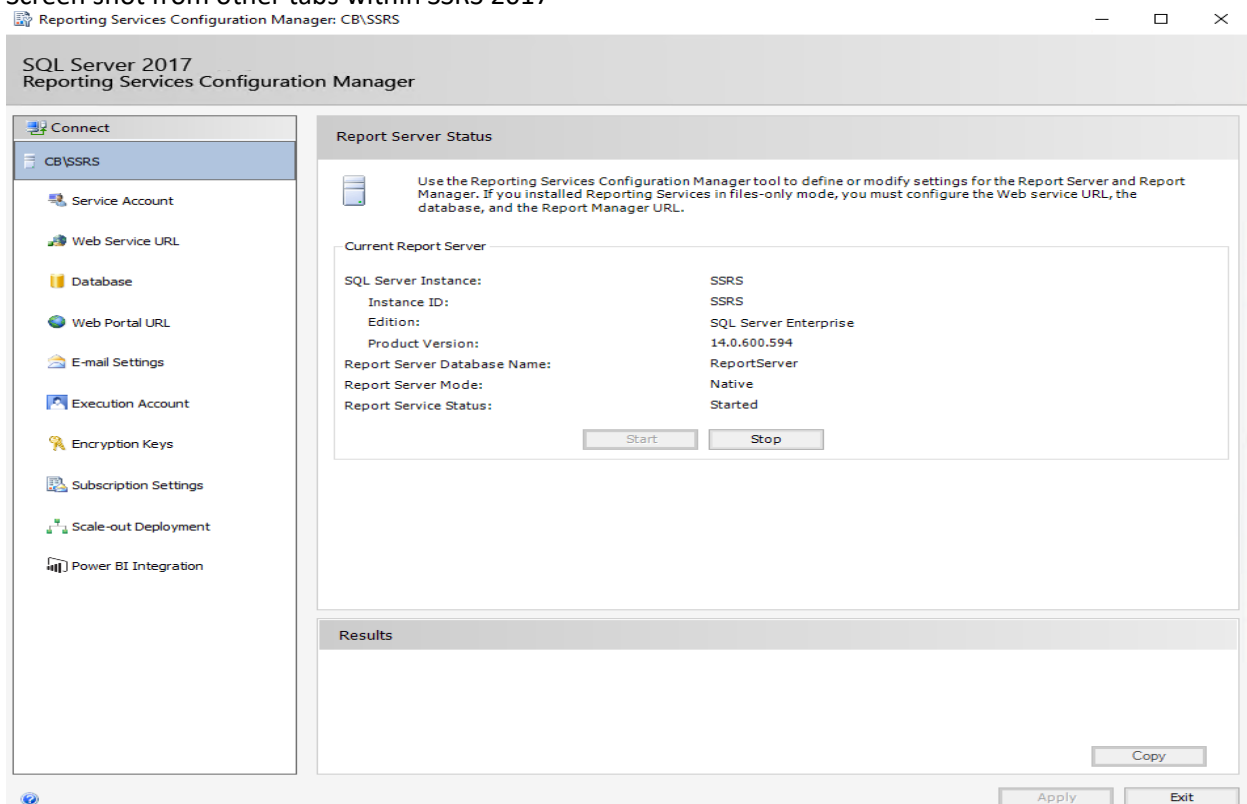# How to upgrade SSRS 2017 to SSRS 2019

In this post, I will show you the steps to upgrade SSRS 2017 to SSRS 2019. I am running SQL Server Reporting Services 2017. I will upgrade this to SQL Server Reporting Services 2019.

First we will backup encryption keys.

Screen shot from other tabs within SSRS 2017

Reporting Services Configuration Manager: CB\SSRS

SQL Server 2017
Reporting Services Configuration Manager

Connect

CB\SSRS

- Service Account
- Web Service URL
- Database
- Web Portal URL
- E-mail Settings
- Execution Account
- Encryption Keys
- Subscription Settings
- Scale-out Deployment
- Power BI Integration

Service Account

Specify a built-in account or Windows domain user account to run the report server service.

Report Server Service Account

Choose an option to set the service account and then click Apply.

- ○ Use built-in account: Network Service
- ● Use another account:
  - Account (Domain\user): ramlan\administrator
  - Password: ••••••••

Results

Copy

Apply   Exit

Reporting Services Configuration Manager: CB\SSRS

SQL Server 2017
Reporting Services Configuration Manager

Connect

CB\SSRS

- Service Account
- Web Service URL
- Database
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- Subscription Settings
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- Power BI Integration

Web Service URL

Configure a URL used to access the Report Server. Click Advanced to define multiple URLs for a single Report Server instance, or to specify additional parameters on the URL.

Report Server Web Service Virtual Directory

Virtual Directory: ReportServer

Report Server Web Service Site identification

IP Address: All Assigned (Recommended)

TCP Port: 80

HTTPS Certificate: HTTPS SSRS

HTTPS Port: 443   Advanced...

Report Server Web Service URLs

URLs: http://CB:80/ReportServer
       https://CB.RAMLAN.CA:443/ReportServer

Results

Copy

Apply   Exit

Reporting Services Configuration Manager: CB\SSRS

SQL Server 2017
Reporting Services Configuration Manager

Connect

CB\SSRS

- Service Account
- Web Service URL
- **Database**
- Web Portal URL
- E-mail Settings
- Execution Account
- Encryption Keys
- Subscription Settings
- Scale-out Deployment
- Power BI Integration

Report Server Database

Reporting Services stores all report server content and application data in a database. Use this page to create or change the report server database or update database connection credentials.

Current Report Server Database

Click Change database to select a different database or create a new database in native or SharePoint integrated mode.

SQL Server Name:	CB
Database Name:	ReportServer
Report Server Mode:	Native

[Change Database]

Current Report Server Database Credential

The following credentials are used by the report server to connect to the report server database. Use the options below to choose a different account or update a password.

Credential:	Service Account
Login:	ramlan\administrator
Password:	************

[Change Credentials]

Results

[Copy]

[Apply]   [Exit]

Reporting Services Configuration Manager: CB\SSRS

SQL Server 2017
Reporting Services Configuration Manager

Connect

CB\SSRS

- Service Account
- Web Service URL
- Database
- **Web Portal URL**
- E-mail Settings
- Execution Account
- Encryption Keys
- Subscription Settings
- Scale-out Deployment
- Power BI Integration

Web Portal URL

Configure a URL to access Web Portal. Click Advanced to define multiple URLs, or to specify additional parameters on the URL.

Web Portal Site Identification

Virtual Directory: Reports

URLs: http://CB:80/Reports
https://CB.RAMLAN.CA:443/Reports

[Advanced]

Results

[Copy]

[Apply]   [Exit]

SQL Server 2017
Reporting Services Configuration Manager

Connect

CB\SSRS

- 🖥️ Service Account
- 🌐 Web Service URL
- 📒 Database
- 🌐 Web Portal URL
- ✉️ E-mail Settings
- 👤 Execution Account
- 🔑 Encryption Keys
- 📑 Subscription Settings
- 🔀 Scale-out Deployment
- 📊 Power BI Integration

E-mail Settings

To use report server e-mail, specify an existing SMTP server and an e-mail account that can send e-mail from that server.

SMTP Settings

To edit, change the fields and click the Apply button.

Sender Address:	administrator@ramlan.ca
Current SMTP Delivery Method:	Use SMTP server
SMTP Server:	ex2019.ramlan.ca
Authentication:	No authentication ▼

Results

Copy

Apply   Exit

SQL Server 2017
Reporting Services Configuration Manager

Connect

CB\SSRS

- 🖥️ Service Account
- 🌐 Web Service URL
- 📒 Database
- 🌐 Web Portal URL
- ✉️ E-mail Settings
- 👤 Execution Account
- 🔑 Encryption Keys
- 📑 Subscription Settings
- 🔀 Scale-out Deployment
- 📊 Power BI Integration

Scale-out Deployment

Use this page to view information about a scale-out deployment. Report Servers that are joined to the scale-out can store encrypted data in a common Report Server database. Servers that are waiting to join the scale-out deployment must be added by a Report Server instance that is already part of the deployment.

Scale-out Deployment Status

SQL Server Name:	CB
Database Name:	ReportServer
Report Server Mode:	Native

Server	Instance	Status
CB	SSRS	Joined

Add Server   Remove Server

Results

Copy

Apply   Exit

Now we are ready for the upgrade (SSRS 2019).

Name		Date modified	Type	Size
04 SQLServerReportingServices 2019.exe		04-Apr-2020 3:33 ...	Application	107,947 KB

— ✕

Microsoft SQL Server 2019 Reporting Services

Welcome

Upgrade Reporting Services

SQL Server Reporting Services transmits information about your installation experience, as well as other usage and performance data, to Microsoft to help improve the product. To learn more about SQL Server Reporting Services data processing and privacy controls, please see Privacy Statement. Learn how to opt out of collection here.

— ✕

Microsoft SQL Server 2019 Reporting Services

Review the license terms

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MICROSOFT SQL SERVER 2019 ENTERPRISE

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Cancel   < Previous   Upgrade

Microsoft SQL Server 2019 Reporting Services

Upgrade completed

Setup has upgraded your report server.

Learn more

Configure report server   Close

Report Server Configuration Manager: CB\SSRS

Report Server Configuration Manager

Connect

CB\SSRS

- Service Account
- Web Service URL
- Database
- Web Portal URL
- E-mail Settings
- Execution Account
- Encryption Keys
- Subscription Settings
- Scale-out Deployment
- Power BI Service (cloud)

Report Server Status

Use the Report Server Configuration Manager tool to define or modify settings for the report server and web portal. Before you can use the report server, you must configure the Web Service URL, the database, and the Web Portal URL.

Current Report Server

Instance ID:	SSRS
Edition:	SQL Server Enterprise
Product Version:	15.0.1102.675
Report Server Database Name:	ReportServer
Report Server Mode:	Native
Report Service Status:	Started

Start   Stop

Results

Copy

Apply   Exit

Report Server Configuration Manager: CB\SSRS

Report Server Configuration Manager

Connect

CB\SSRS
- Service Account
- Web Service URL
- Database
- Web Portal URL
- E-mail Settings
- Execution Account
- Encryption Keys
- Subscription Settings
- Scale-out Deployment
- Power BI Service (cloud)

Service Account

Specify a built-in account or Windows domain user account to run the report server service.

Report Server Service Account

Choose an option to set the service account and then click Apply.

○ Use built-in account: Virtual Service Account

● Use another account:
   Account (Domain\user):   ramlan\administrator
   Password: ••••••••

Results

Copy

Apply   Exit

Report Server Configuration Manager: CB\SSRS

Report Server Configuration Manager

Connect

CB\SSRS
- Service Account
- Web Service URL
- Database
- Web Portal URL
- E-mail Settings
- Execution Account
- Encryption Keys
- Subscription Settings
- Scale-out Deployment
- Power BI Service (cloud)

Web Service URL

Configure a URL used to access the Report Server. Click Advanced to define multiple URLs for a single Report Server instance, or to specify additional parameters on the URL.

Report Server Web Service Virtual Directory

Virtual Directory: ReportServer

Report Server Web Service Site identification

IP Address: All Assigned (Recommended)
TCP Port: 80
HTTPS Certificate: HTTPS SSRS
HTTPS Port: 443   Advanced...

Report Server Web Service URLs

URLs: http://CB:80/ReportServer
         https://CB.RAMLAN.CA:443/ReportServer

Results

Copy

Apply   Exit

Report Server Configuration Manager

CB\SSRS

- Service Account
- Web Service URL
- **Database**
- Web Portal URL
- E-mail Settings
- Execution Account
- Encryption Keys
- Subscription Settings
- Scale-out Deployment
- Power BI Service (cloud)

Report Server Database

The report server stores all report server content and application data in a database. Use this page to create or change the report server database or update database connection credentials.

Current Report Server Database

Click Change database to select a different database or create a new database.

SQL Server Name:	CB
Database Name:	ReportServer
Report Server Mode:	Native

[Change Database]

Current Report Server Database Credential

The following credentials are used by the report server to connect to the report server database. Use the options below to choose a different account or update a password.

Credential:	Service Account
Login:	ramlan\administrator
Password:	************

[Change Credentials]

Results

[Copy]

[Apply]   [Exit]

Report Server Configuration Manager

CB\SSRS

- Service Account
- Web Service URL
- Database
- **Web Portal URL**
- E-mail Settings
- Execution Account
- Encryption Keys
- Subscription Settings
- Scale-out Deployment
- Power BI Service (cloud)

Web Portal URL

Configure a URL to access Web Portal. Click Advanced to define multiple URLs, or to specify additional parameters on the URL.

Web Portal Site Identification

Virtual Directory:	Reports	
URLs:	http://CB:80/Reports	[Advanced]
	https://CB.RAMLAN.CA:443/Reports	

Results

[Copy]

[Apply]   [Exit]

Report Server Configuration Manager: CB\SSRS

Report Server Configuration Manager

Connect

CB\SSRS
- Service Account
- Web Service URL
- Database
- Web Portal URL
- **E-mail Settings**
- Execution Account
- Encryption Keys
- Subscription Settings
- Scale-out Deployment
- Power BI Service (cloud)

E-mail Settings

To use report server e-mail, specify an existing SMTP server and an e-mail account that can send e-mail from that server.

SMTP Settings

To edit, change the fields and click the Apply button.

Sender Address:	administrator@ramlan.ca
Current SMTP Delivery Method:	Use SMTP server
SMTP Server:	ex2019.ramlan.ca
Authentication:	No authentication ▾

Results

Copy

Apply   Exit

Report Server Configuration Manager: CB\SSRS

Report Server Configuration Manager

Connect

CB\SSRS
- Service Account
- Web Service URL
- Database
- Web Portal URL
- E-mail Settings
- Execution Account
- **Encryption Keys**
- Subscription Settings
- Scale-out Deployment
- Power BI Service (cloud)

Encryption Keys

The report server uses a symmetric key to encrypt credentials, connection strings, and other sensitive data that is stored in the report server database. You can manage this key by creating a backup. If you migrate or move the report server installation to another computer, you can restore the key to regain access to encrypted content.

Backup
⚠ Backup the key to a password protected file for report server recovery in case of emergency.   **Backup**

Restore
To restore the encryption key, click the Restore button. You must know the password that was used to protect the encryption key file.   **Restore**

Change
This operation replaces the encryption key with a newer version.   **Change**

Delete Encrypted Content
All stored connection strings, credentials, and encrypted values in a subscription will be deleted. After you delete this content, you must redefine all data source connections and subscriptions used on the report server.   **Delete**

Results

Copy

Apply   Exit

Report Server Configuration Manager

Report Server Configuration Manager: CB\SSRS

Scale-out Deployment

Use this page to view information about a scale-out deployment. Report Servers that are joined to the scale-out can store encrypted data in a common Report Server database. Servers that are waiting to join the scale-out deployment must be added by a Report Server instance that is already part of the deployment.

Scale-out Deployment Status

SQL Server Name: CB
Database Name: ReportServer
Report Server Mode: Native

Server	Instance	Status
CB	SSRS	Joined

Add Server   Remove Server

Results

Copy

Apply   Exit

Left navigation:
- Connect
- CB\SSRS
  - Service Account
  - Web Service URL
  - Database
  - Web Portal URL
  - E-mail Settings
  - Execution Account
  - Encryption Keys
  - Subscription Settings
  - Scale-out Deployment
  - Power BI Service (cloud)

Power BI is available Cloud only – Not on premise BI Server

Not secure | cb/Reports/browse/

SQL Server Reporting Services

★ Favorites   Browse

Home

Home

FOLDERS (1)

ConfigMgr_TOR

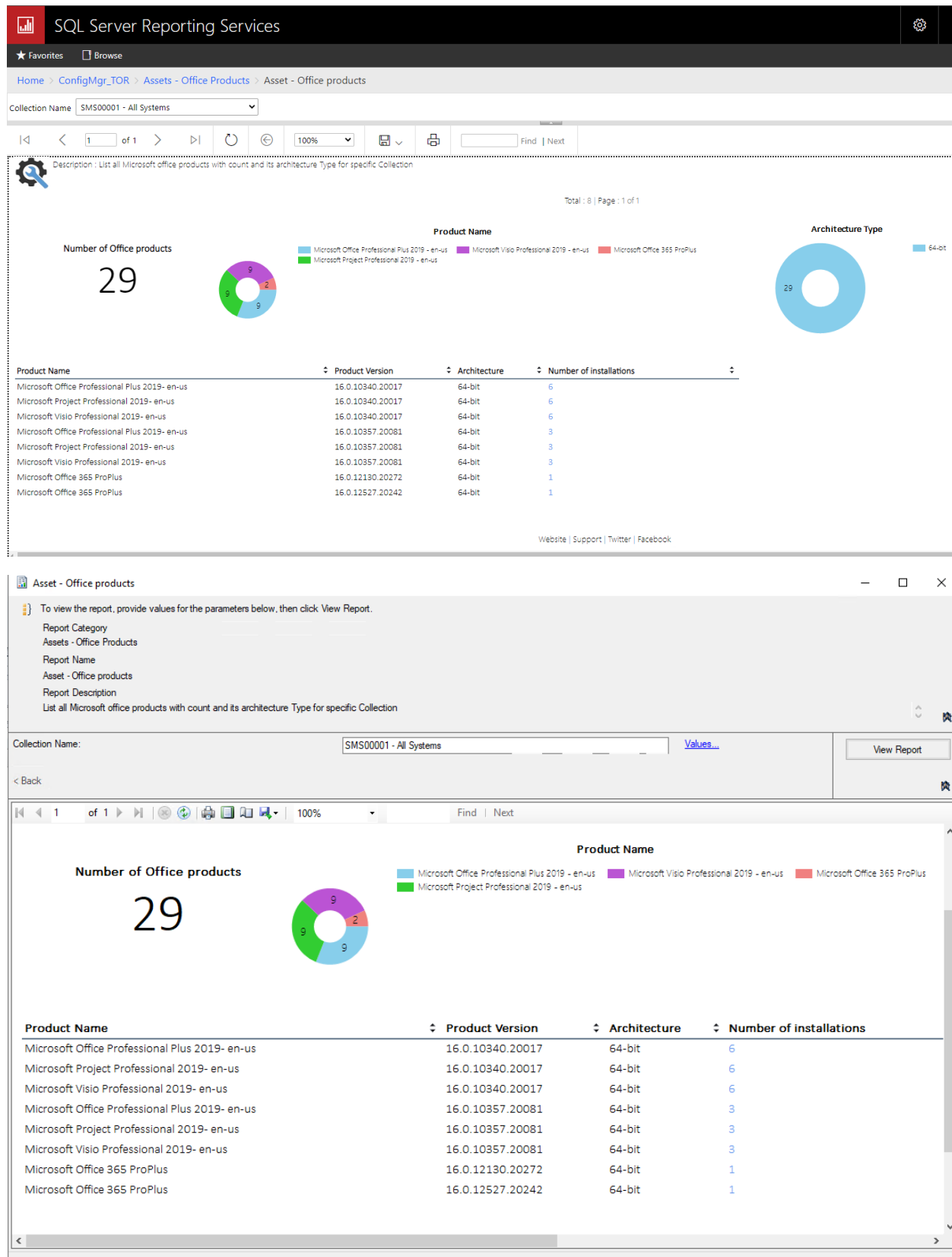
Not secure | cb/ReportServer

cb/ReportServer – /

Saturday, January 12, 2019 3:47 PM   <dir> ConfigMgr_TOR

Microsoft SQL Server Reporting Services Version 15.0.1102.675

All the reports are working fine.

This concludes SSRS 2019 upgrade.

Thanks

Ram Lan
5th April 2020