

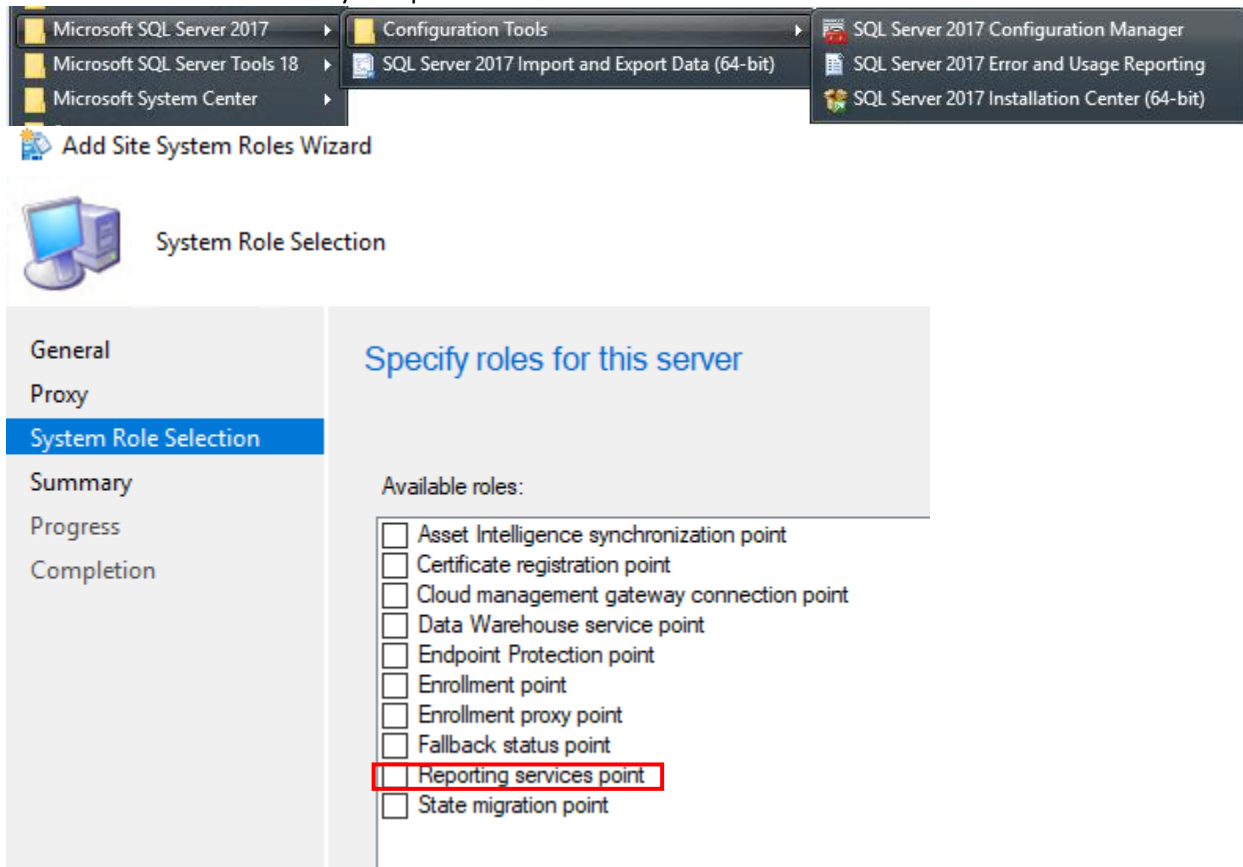
Installing Power BI Server on TP2001

In this post, I will show you how to install, configure and deploy SSRS including BI Server within Technical Preview 2001. This is a new feature that is available within TP2001 only.

In my lab, I did not install SSRS yet. I also did not install Site System Role Reporting Services Point. So, the scenario will be the following.

1. Install Power BI Report Server. Installation of power BI report server is straight forward and all you need is to accept the default switches.
2. Launch Report Server Configuration Manager and configure it.
3. Add the reporting services point role in Configuration Manager

Here is the screen shot of my setup.



So, we will go ahead with BI Server install as detailed below.

TP1 > Downloads > BI Report Server

| Name | Date modified | Type | Size |
|---------------------|----------------------|---------------------------|------------|
| PBIDesktopRS | 23-Jan-2020 7:45 ... | Windows Installer Package | 204,580 KB |
| PBIDesktopRS x64 | 23-Jan-2020 7:43 ... | Windows Installer Package | 224,388 KB |
| PowerBIReportServer | 23-Jan-2020 7:45 ... | Application | 272,901 KB |

Microsoft Power BI Report Server

(September 2019)

Welcome

Install Power BI Report Server

Power BI Report Server 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 Power BI Report Server data processing and privacy controls, please see [Privacy Statement](#). Learn how to opt out of collection [here](#).

Microsoft Power BI Report Server

(September 2019)

Choose an edition to install

☒ Choose a free edition:

Evaluation (expires in 180 days)

☐ Enter the product key:

TDKQD-PKV44-PJT4N-TCJG2-3YJ6B

[Learn more](#)

Cancel

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Microsoft Power BI Report Server

(September 2019)

Review the license terms

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1. INSTALLATION AND USE RIGHTS.

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Microsoft Power BI Report Server

(September 2019)

Install Database Engine

You'll need an instance of SQL Server Database Engine to store the report server database.

☒ Install Power BI Report Server only

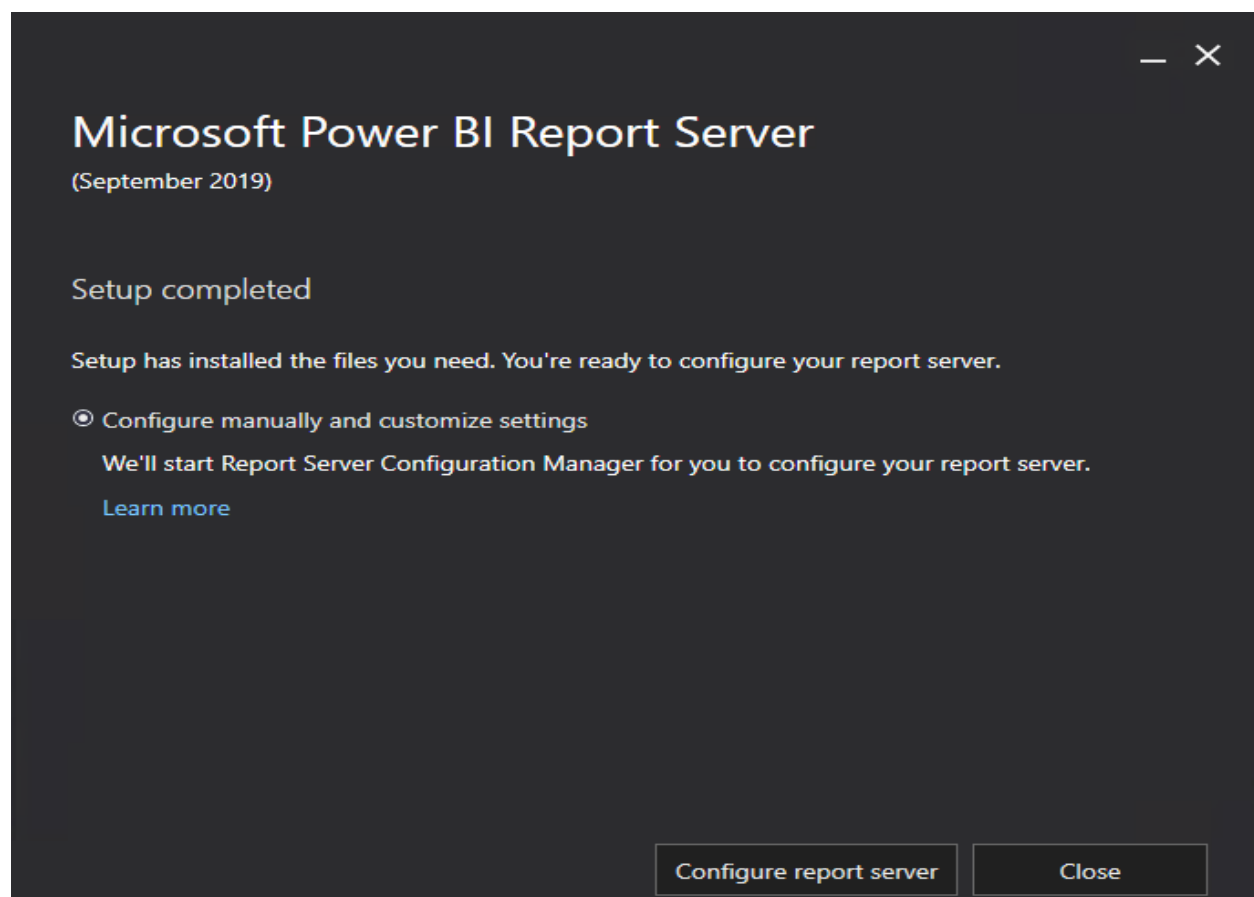
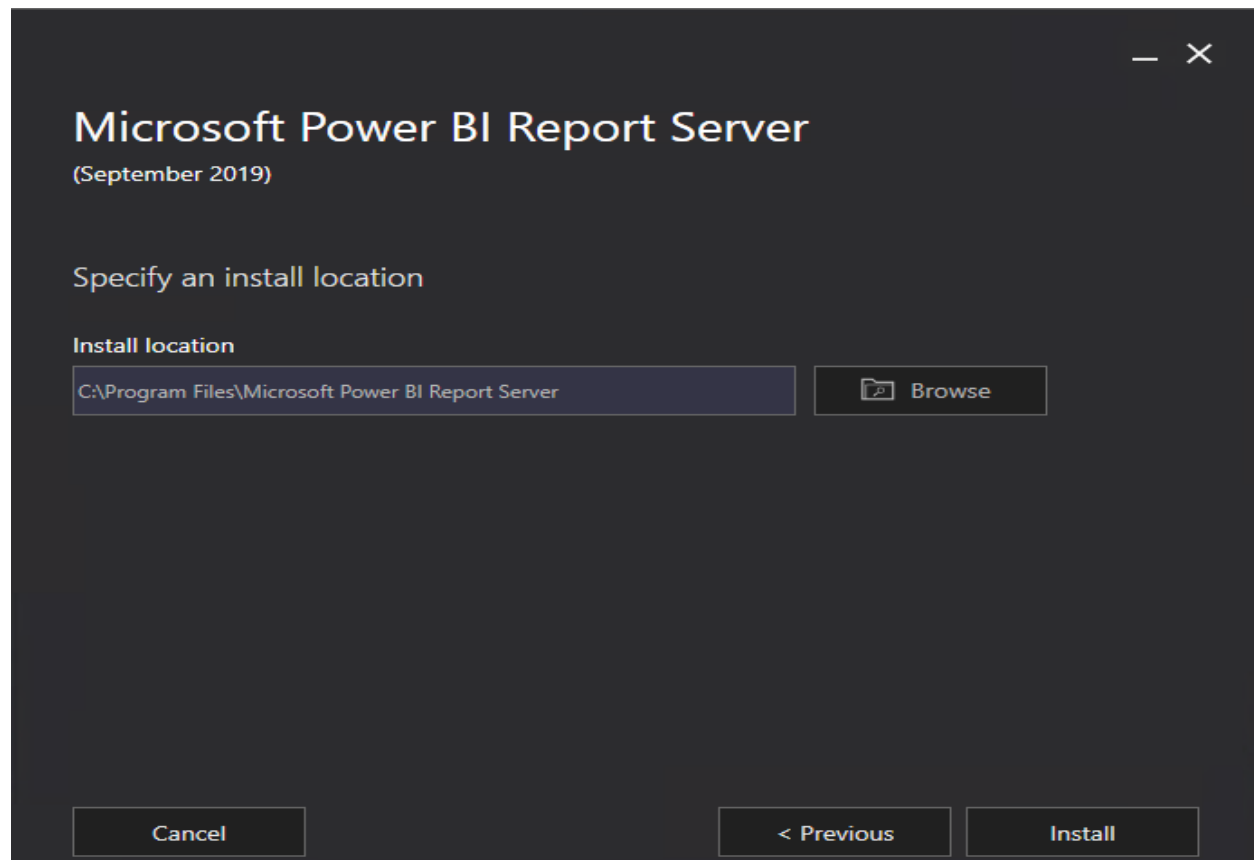
You'll need to have or install a Database Engine instance on this server or on a different server.

[Learn more about supported Database Engine versions and editions](#)

Cancel

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The Report Server Configuration Connection

Report Server Connection

Please specify a server name, click the Find button, and select a report server instance to configure.

Server Name:

TP1

Find

Report Server Instance:

PBIRS

Connect

Cancel

Report Server Configuration Manager: TP1\PBIRS

Report Server Configuration Manager

Connect

TP1\PBIRS

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:

PBIRS

Edition:

Power BI Report Server - Evaluation

Product Version:

15.0.1102.646

Report Server Database Name:

Report Server Mode:

Report Service Status:

Started

Start

Stop

Results

Copy

Apply

Exit

Report Server Configuration Manager

Connect

TP1\PBIRS

Service Account

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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:
Database Name:
Report Server Mode:


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:
Login:
Password:

Change Credentials

Results

Copy

Apply Exit

Report Server Database Configuration Wizard



Change Database

Choose whether to create or configure a report server database.

Action

Database Server
Database
Credentials
Summary
Progress and Finish

Select one of the following options to create an empty report server database or select an existing report server database that has content you want to use.

Select a task from the following list:

- ☒ Create a new report server database.
☐ Choose an existing report server database.



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Cancel

Change Database

Choose whether to create or configure a report server database.

Action

Database Server

Database

Credentials

Summary

Progress and Finish

Choose a local or remote instance of a SQL Server Database Engine and specify credentials that have permission to connect to that server.

Connect to the Database Server:

Server Name:

TP1

Authentication Type:

Current User - Integrated Security

RAMLAN\Administrator

Test Connection

✕



Test Connection Succeeded.

OK

Test Connection

Change Database

Choose whether to create or configure a report server database.

Action

Database Server

Database

Credentials

Summary

Progress and Finish

Choose a local or remote instance of a SQL Server Database Engine and specify credentials that have permission to connect to that server.

Connect to the Database Server:

Server Name:

TP1

Authentication Type:

Current User - Integrated Security

Username:

RAMLAN\Administrator

Password:

Test Connection



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Cancel

Change Database

Choose whether to create or configure a report server database.

Action

Database Server

Database

Credentials

Summary

Progress and Finish

Enter a database name and select the language to use for running SQL scripts.

Database Name:

Temp Database Name:

Language:

Report Server Mode:



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Cancel

Change Database

Choose whether to create or configure a report server database.

Action

Database Server

Database

Credentials

Summary

Progress and Finish

Specify the credentials of an existing account that the report server will use to connect to the report server database. Permission to access the report server database will be automatically granted to the account you specify.

Credentials:

Authentication Type:

User name:

Password:



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Change Database

Choose whether to create or configure a report server database.

Action

Database Server

Database

Credentials

Summary

Progress and Finish

The following information will be used to create a new report server database. Verify this information is correct before you continue.

SQL Server Instance: TP1
Report Server Database: BICM_TP1
Temp Database: BICM_TP1TempDB
Report Server Language: English (United States)
Report Server Mode: Native
Authentication Type: Service Account
Username: NT SERVICE\PowerBIReportServer
Password: *****



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Cancel

Change Database

Choose whether to create or configure a report server database.

Action

Database Server

Database

Credentials

Summary

Progress and Finish

Please wait while the Report Server Database Configuration wizard configures the database. This might take several minutes to complete.



| | |
|----------------------------|---------|
| Verifying database sku | Success |
| Generating database script | Success |
| Running database script | Success |
| Generating rights scripts | Success |
| Applying connection rights | Success |
| Setting DSN | Success |



Previous

Finish

Cancel

Report Server Configuration Manager

Connect

TP1\PBIRS

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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:TP1

Database Name:BICM_TP1

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:NT SERVICE\PowerBIReportServer

Password:*****

Change Credentials

Results

✓ 11:57:13.0585 | Stopping report server "PowerBIReportServer" on TP1.

✓ 11:57:15.5585 | Starting report server "PowerBIReportServer" on TP1.

The task completed successfully.

Copy

ApplyExit

Report Server Configuration Manager: TP1\PBIRS

— □ ×

Report Server Configuration Manager

Connect

TP1\PBIRS

Service Account

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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 is not configured. Default values have been provided to you. To accept these defaults simply press the Apply button, else change them and then press Apply.

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:(Not Selected)

HTTPS Port:

Advanced...

Report Server Web Service URLs

URLs:http://TP1:80/ReportServer

Results

Copy

ApplyExit

Report Server Configuration Manager

Connect

TP1\PBIRS

Service Account

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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: (Not Selected)
HTTPS Port:

Advanced...

Report Server Web Service URLs
URLs: <http://TP1:80/ReportServer>

Results
11:58:59.2230 | Reserving url http://+:80
11:58:59.9886 | Stopping report server "PowerBIReportServer" on TP1.
11:59:02.6136 | Starting report server "PowerBIReportServer" on TP1.
The task completed successfully.

Copy

Apply

Exit

Report Server Configuration Manager

Connect

TP1\PBIRS

Service Account

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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.

The Web Portal virtual directory name is not configured. To configure the directory, enter a name or use the default value that is provided, and then click Apply.

Web Portal Site Identification
Virtual Directory: Reports
URLs: <http://TP1:80/Reports>

Advanced

Results

Copy

Apply

Exit

Report Server Configuration Manager

Connect

TP1\PBIRS

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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://TP1:80/Reports>

Advanced

Results

12:00:26.4453 | Reserving url http://+:80

12:00:26.5390 | Reserving url http://+:80

12:00:27.2422 | Stopping report server "PowerBIReportServer" on TP1.

12:00:29.3984 | Starting report server "PowerBIReportServer" on TP1.

The task completed successfully.

Copy

Apply Exit

Report Server Configuration Manager

Connect

TP1\PBIRS

Service Account

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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

12:01:30.7951 | Apply Sender E-Mail Settings

Your configuration has been updated with your new e-mail information.

Copy

Apply Exit

Report Server Configuration Manager

Connect

TP1\PBIRS

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

Backup Encryption Key



Specify the name and location of a file that will contain the copy of the key. You must specify a password that is used to lock and unlock the file.

File Location: ...

Password:

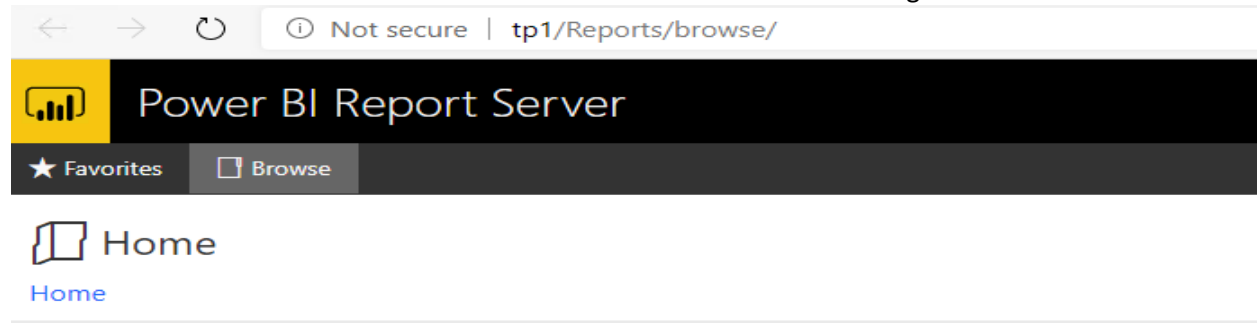
Confirm Password:



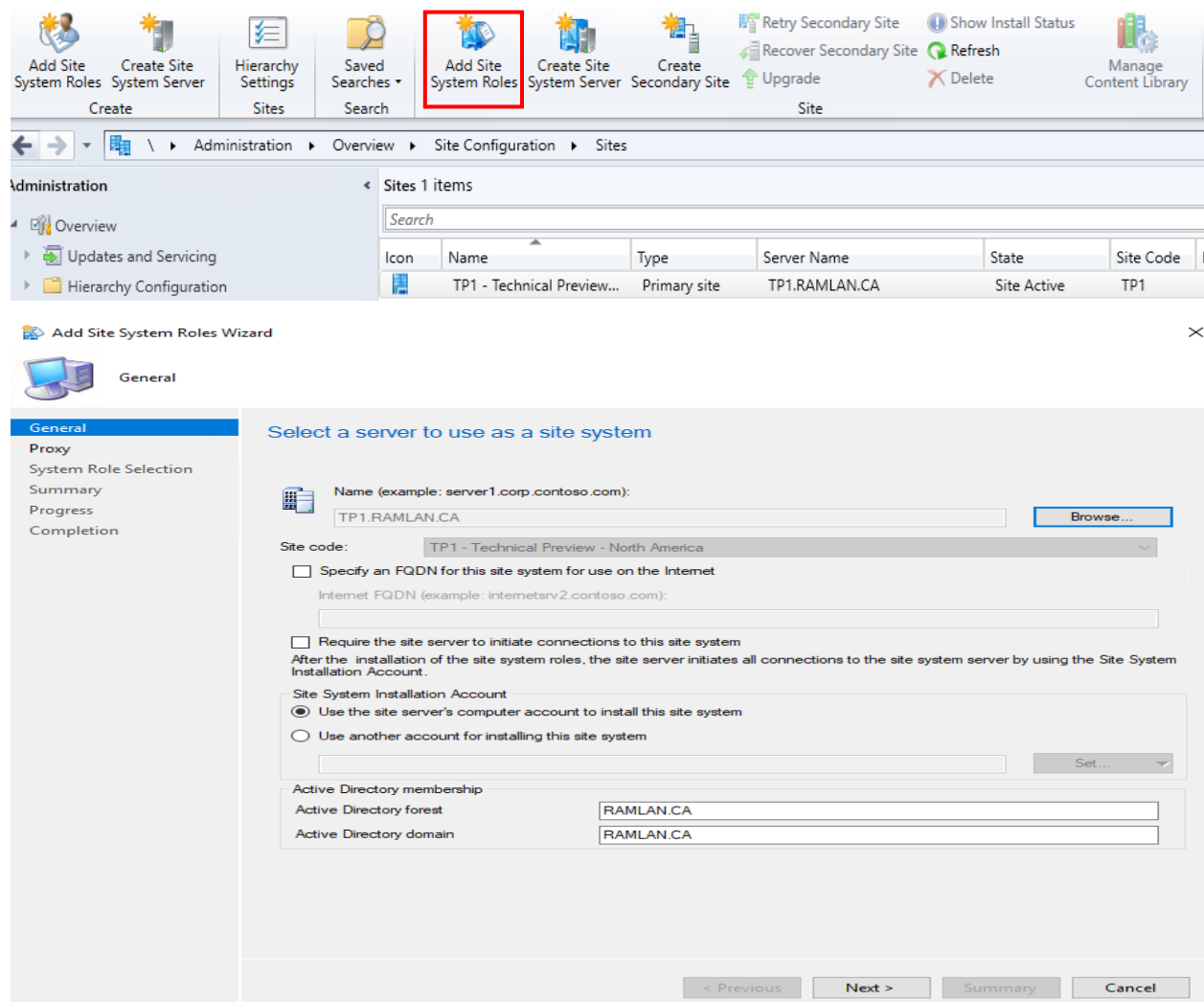
OK

Cancel

Now check the Web Portal and Web Service URL. For me the URL is working.



Now we can add Reporting Services Point Site System Role from the console.





Proxy

General

Proxy

System Role Selection

Summary

Progress

Completion

Specify Internet proxy server

You can specify a proxy server for this site system server to use when it connects to the Internet.

☐ Use a proxy server when synchronizing information from the Internet

Site System Proxy Server Account

The Site System Proxy Server Account provides authenticated access to the proxy server when this site system server connects to a location on the Internet.

Proxy server name:

Port:

☐ Use credentials to connect to the proxy server

Set...

< Previous

Next >

Summary

Cancel



System Role Selection

General

Proxy

System Role Selection

Reporting services point

Summary

Progress

Completion

Specify roles for this server

Available roles:

- ☐ Asset Intelligence synchronization point
- ☐ Certificate registration point
- ☐ Cloud management gateway connection point
- ☐ Data Warehouse service point
- ☐ Endpoint Protection point
- ☐ Enrollment point
- ☐ Enrollment proxy point
- ☐ Fallback status point
- ☒ Reporting services point
- ☐ State migration point

Description:

A reporting services point integrates with SQL Server Reporting Services to create and manage reports for Configuration Manager.

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Summary

Cancel



Reporting services point

General

Proxy

System Role Selection

Reporting services point

Summary

Progress

Completion

Specify Reporting Services settings

The reporting services point provides integration with SQL Server Reporting Services to create and manage reports for Configuration Manager.

Site database connection settings

Specify the Configuration Manager site database server name, optional database instance name, and database name which SQL Reporting Services will use when running reports.

Example: ServerName\InstanceName

Site database server name:

TP1.RAMLAN.CA

Database name:

CM_TP1

Verify

Successfully verified.

Specify the folder to create on the reporting services point site system server that will contain the Configuration Manager reports.

Folder name:

ConfigMgr_TP1

Reporting Services server instance:

PBIRS

Reporting Services Point Account

Specify the credentials that SQL Reporting Services will use when connecting to the Configuration Manager site database.

User name:

RAMLAN\Administrator

Set...

< Previous

Next >

Summary

Cancel



Summary

General

Proxy

System Role Selection

Reporting services point

Summary

Progress

Completion

Confirm the settings

Details:

Create a site system server with the following settings:

Site System Name

- TP1.RAMLAN.CA

Settings

- Public FQDN: Not specified
- Installation Account: Computer Account

Roles

- Reporting services point

Proxy Settings

- Proxy will not be enabled

To change these settings, click Previous. To apply the settings, click Next.

< Previous

Next >

Summary

Cancel



Completion

General

Proxy

System Role Selection

Reporting services point

Summary

Progress

Completion



The Add Site System Roles Wizard completed successfully

Details:

Create a site system server with the following settings:

- ✓ Success: Site System Name
 - TP1.RAMLAN.CA
- ✓ Success: Settings
 - Public FQDN: Not specified
 - Installation Account: Computer Account
- ✓ Success: Roles
 - Reporting services point
- ✓ Success: Proxy Settings
 - Proxy will not be enabled

To exit the wizard, click Close.

< Previous

Next >

Summary

Close

Now we will install Power BI DesktopRS on the same server.

Administrator > Downloads > BI Report Server

| Name | Date modified | Type | Size |
|------------------|----------------------|-----------------------|------------|
| PBIDesktopRS | 23-Jan-2020 7:45 ... | Windows Installer ... | 204,580 KB |
| PBIDesktopRS x64 | 23-Jan-2020 7:43 ... | Windows Installer ... | 224,388 KB |

Microsoft Power BI Desktop (September 2019) (x64) Setup



Power BI

Welcome to the Microsoft Power BI Desktop (September 2019) (x64) Setup Wizard

The Setup Wizard will install Microsoft Power BI Desktop (September 2019) (x64) on your computer. Click Next to continue or Cancel to exit the Setup Wizard.

Microsoft Power BI Desktop (September 2019) (x64) is optimized for use with Power BI Report Server (September 2019).

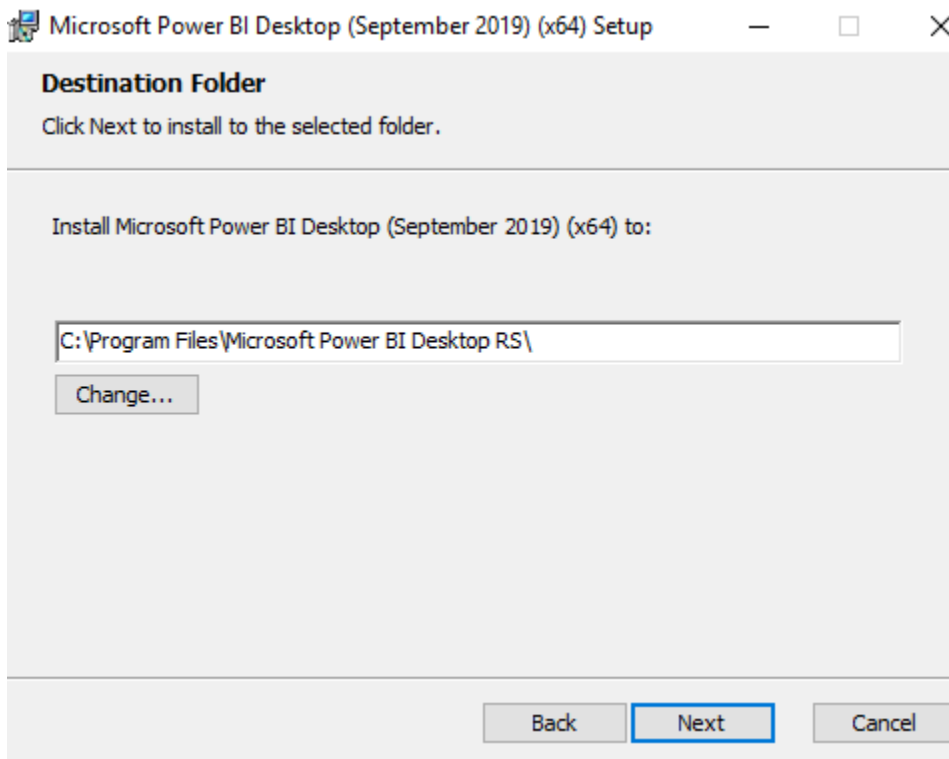
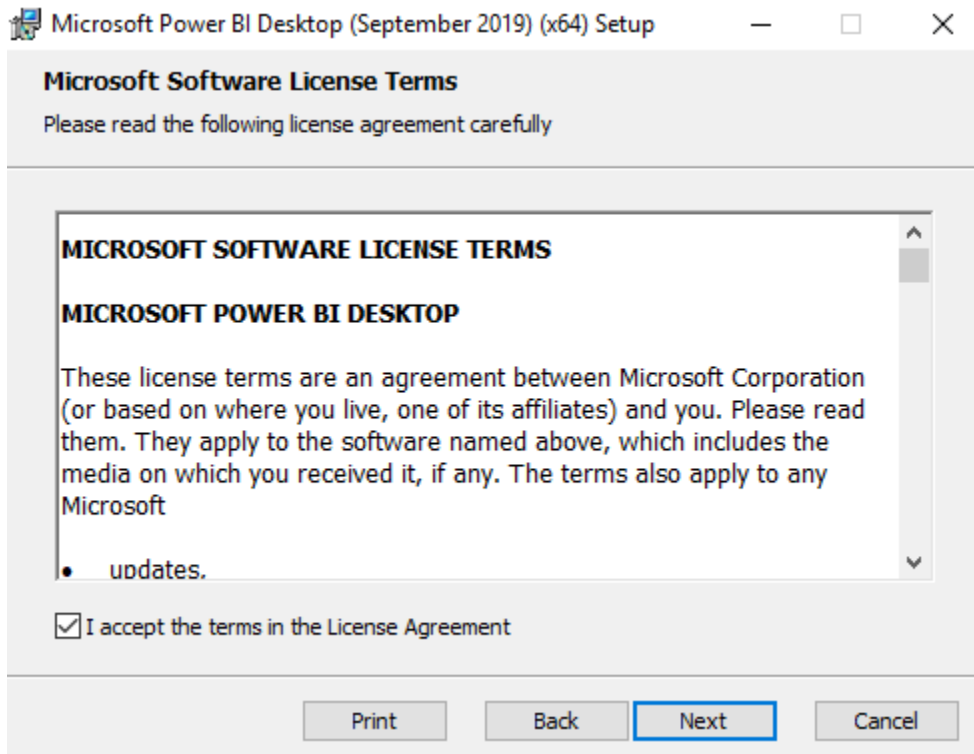
Microsoft collects usage data to improve Microsoft Power BI Desktop (September 2019) (x64). Read the privacy statement online [here](#).

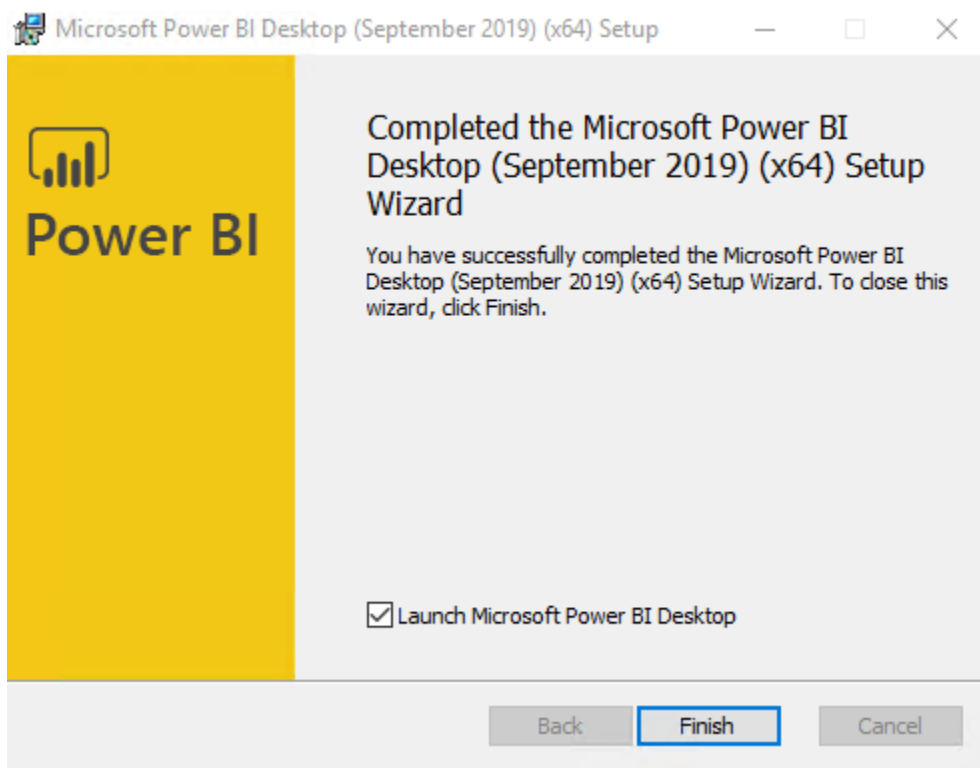
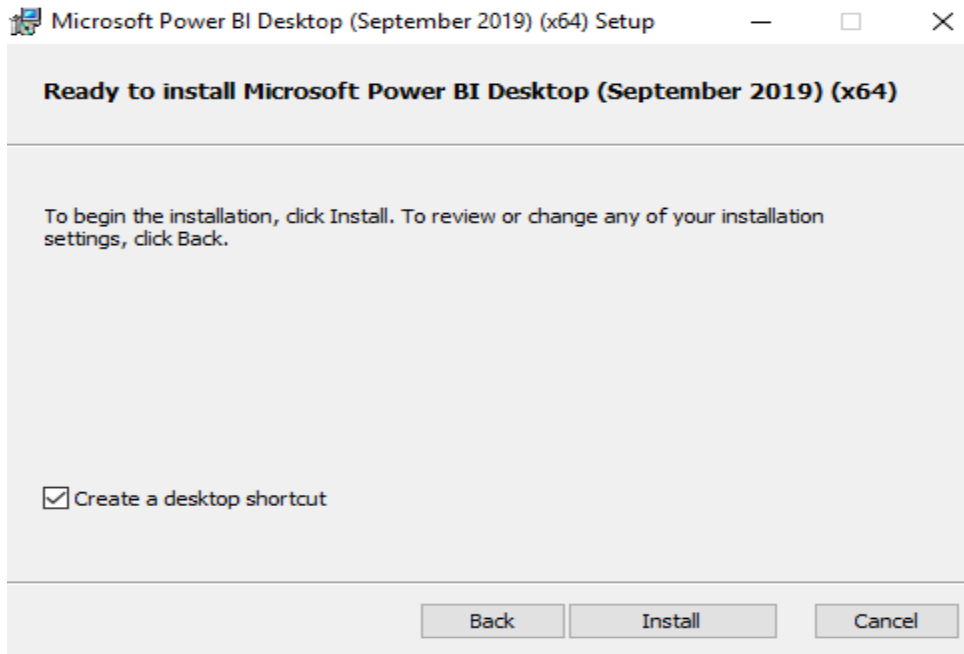
Learn how to opt out of collection [here](#).

Back

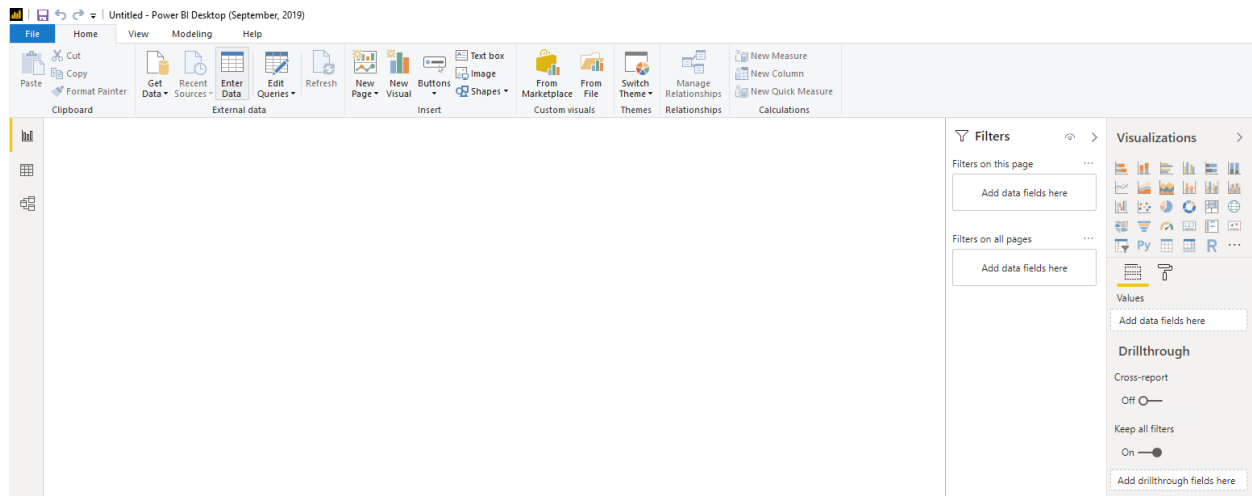
Next

Cancel

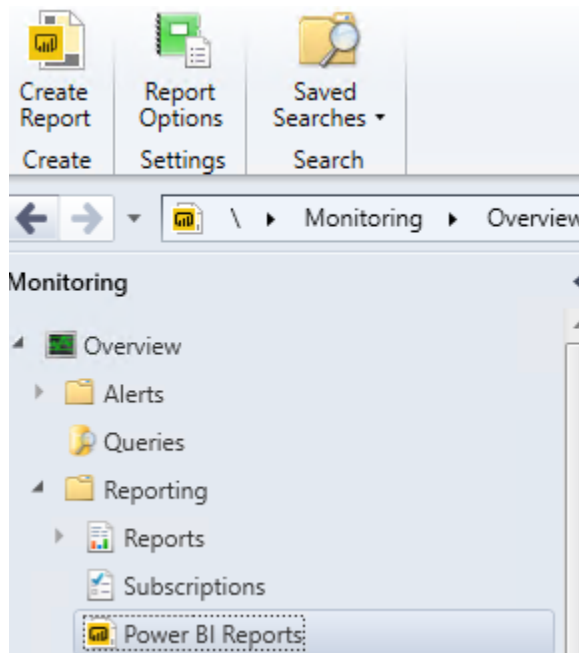




Below is the screen shot of Power BI Desktop screen for opening/creating/editing BI reports.



Within the console under Monitoring – You can see Power BI Reports listed.



Now we can start creating Power BI reports and display them within the console. I will look for few sample and free BI Reports that can be generated within TP2001 for viewing.

This concludes Power BI Server install and the required configuration.

Thanks

Ram Lan
24th Jan 2020