Microsoft

SUGAPI Dashboard in PBI

Security – Analyze KBs Superseded

Microsoft

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1 SUGAPI Dashboard in PBI

This document will help the Security team to analyze the superseded KBs, delivered monthly by Microsoft.

The SUGAPI (aka.ms/sugapi) is a RESTful API that we can use to engage the Microsoft Security Response Center (MSRC) in the following ways:

- Get security update summaries and details using the Common Vulnerability Reporting Framework (CVRF).
- Report suspected cyberattacks or abuse originating from Microsoft Online Services.
- Notify Microsoft of any planned penetration tests against your Azure assets.

The propose of this documentation is to show you how to get the CVRF summary and combining this info with WSUS Database will provide you a PowerBI Dashboard that brings insightful information about superseded KBs and more.

The dashboard generate will have the following information:

- Microsoft Common Vulnerabilities and Exposures (CVE).
- Product involved with CVEs.
- KBs associate with CVEs.
- Superseded KBs.
- Supersedes KBs.

2 Solution Architecture

As mentioned before this Dashboard will combine info from SUGAPI and from WSUS database. Therefore, in order to make this solution to work the following steps are necessary:

- Download a JSON file that contain CVE info.
- WSUS server available to connect.
- SUSDB in SQL database, WID database won't work.
- Read permission on SUSDB
- PowerBI Desktop installed.
- PBI template file that does the analysis.

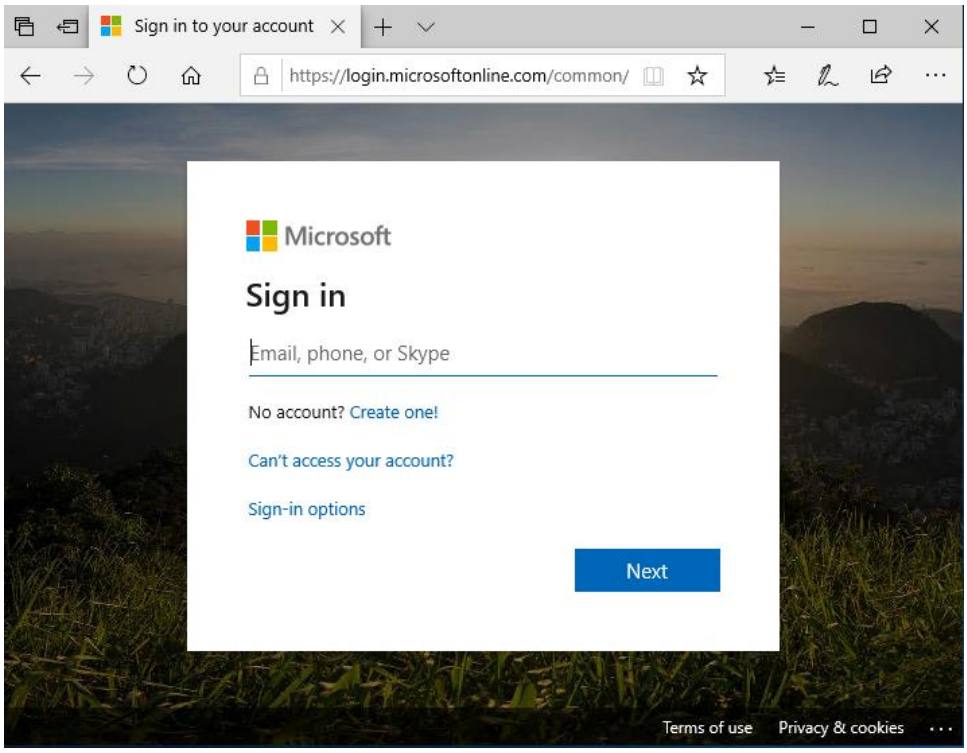
2.1 Download a JSON file from SUGAPI website

To download a JSON file from SUGAPI, we need a computer with Windows 10 operating system, with internet access. These are the steps to download JSON file:

Steps

1. Open your web browser, and navigate to aka.ms\sugapi

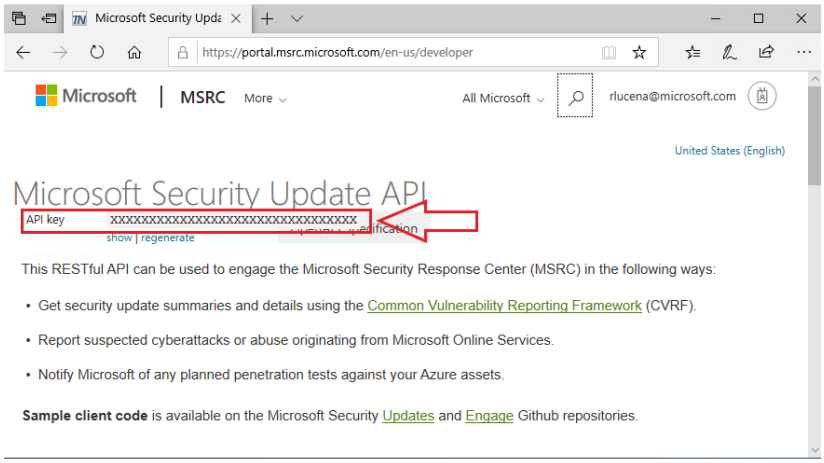
2. Insert your Microsoft credential to access the website.



Microsoft

Steps

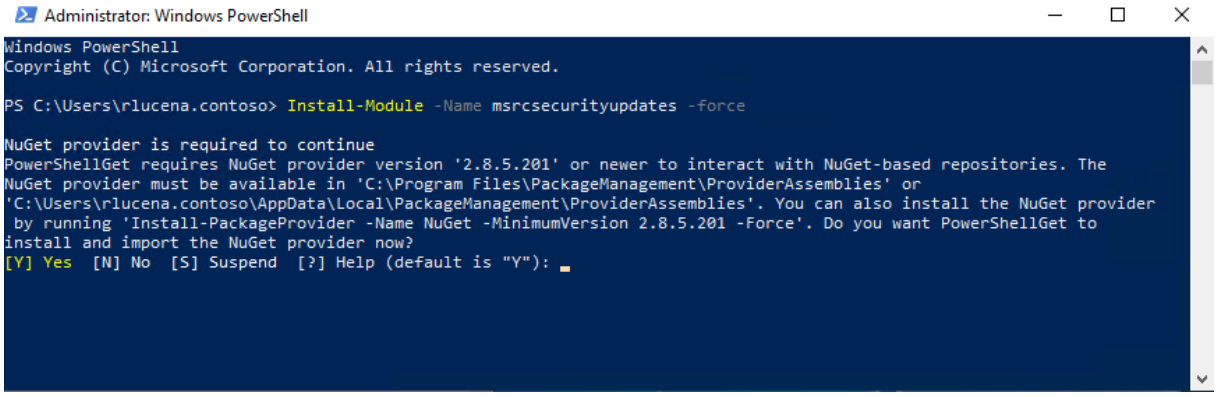
3. Click on **show** and copy your API key



4. Open a PowerShell prompt as administrator.
5. Run the command:

```
Install-Module -Name msrcsecurityupdates -force
```

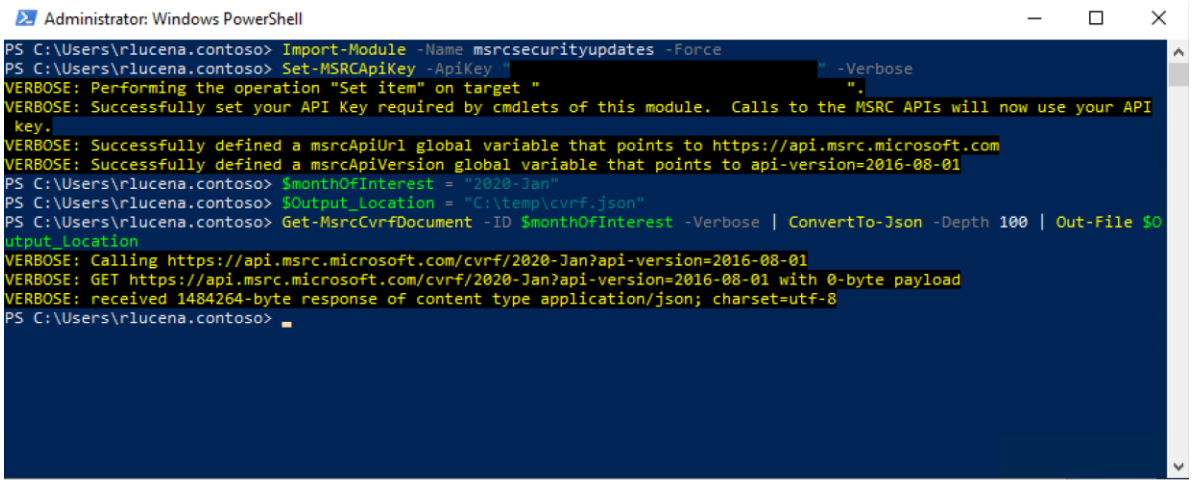
Type "Y" to confirm



6. Run the commands:

```
Import-Module -Name msrcsecurityupdates -force

Set-MSRCApiKey -ApiKey "<your API Key>" -Verbose
     #Replace <your API Key> by your key copied from SUGAPI website

$monthOfInterest = "2020-Jan"
     #Replace "2020-Jan" by year-month you'd like to get information

$Output_Location = "C:\temp\cvrf.json"
     #Inform a path where cvrf.json will be created

Get-MsrcCvrfDocument -ID $monthOfInterest -Verbose | ConvertTo-Json -Depth 100 | Out-File $Output_Location
```

Steps



2.2 WSUS Server and SUSDB Updated

It is expected from you to have a WSUS Server available, that way PBI dashboard will get data from SUSDB and this database should also be kept up to date.

> **IMPORTANT:** It is not part of this document WSUS implementation steps.

2.3 PowerBI Desktop installation

Download the version of Power BI Desktop that matches the architecture (x86 or x64) of your Windows OS. Run the MSI installer and follow the setup steps.

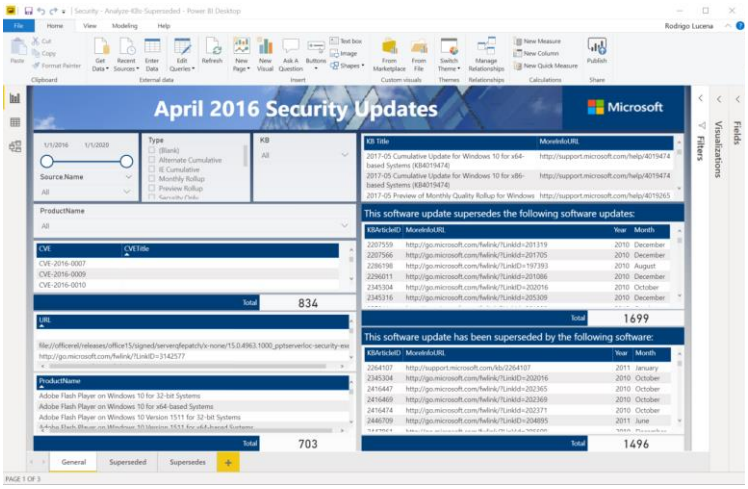
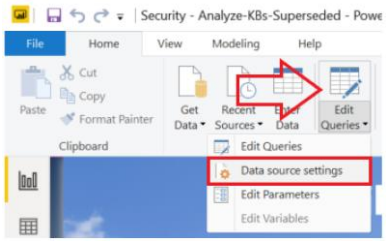
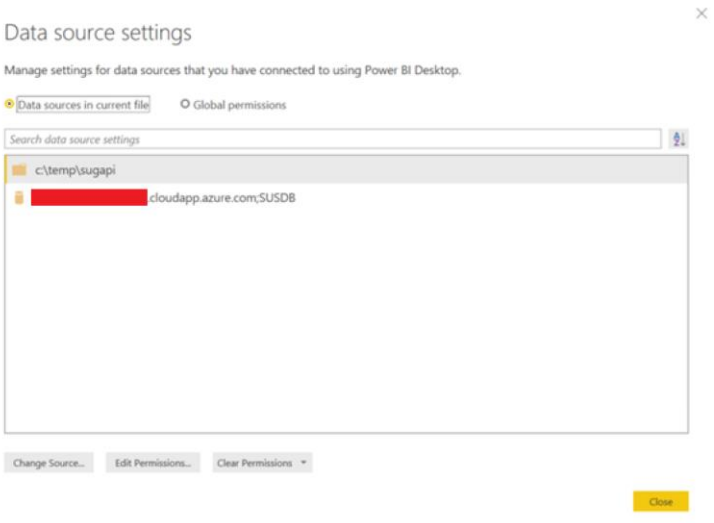
https://www.microsoft.com/en-us/download/details.aspx?id=45331

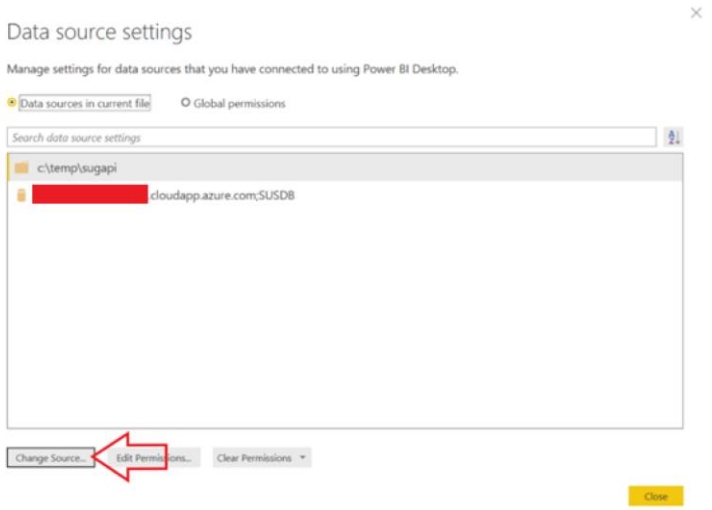
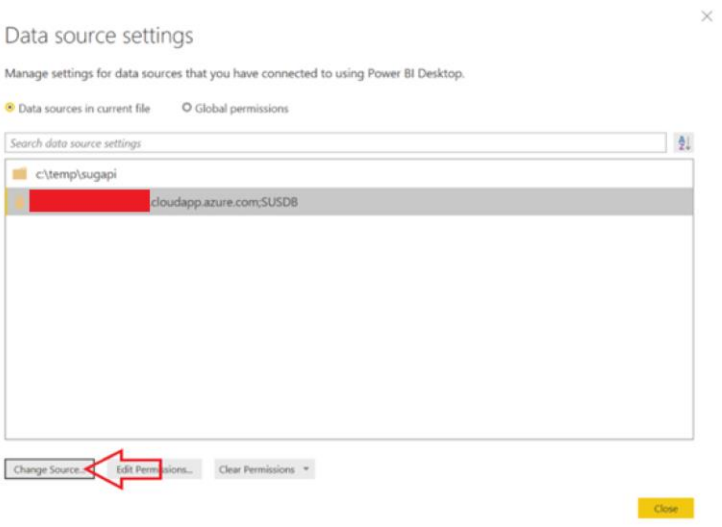
2.4 PowerBI Dashboard

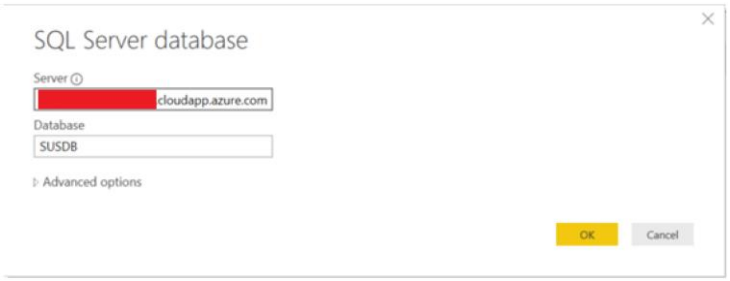
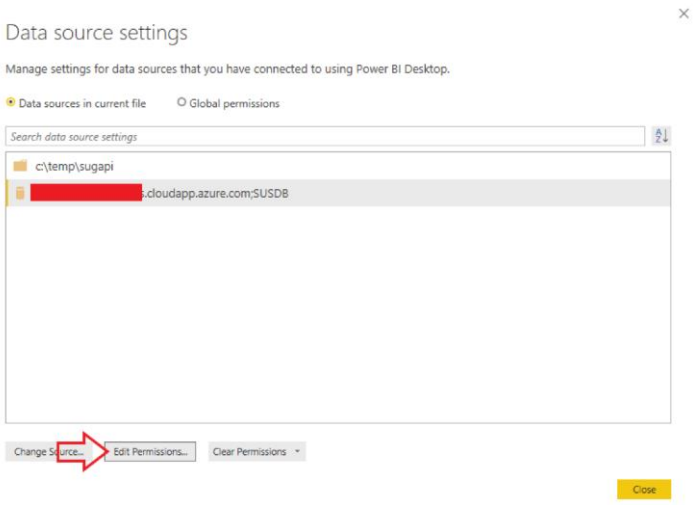
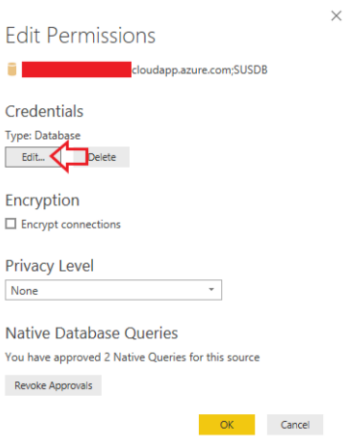
Once you have all requirements configured, open the PBI template file, but before you start using it is important that you understand how this PBI works.

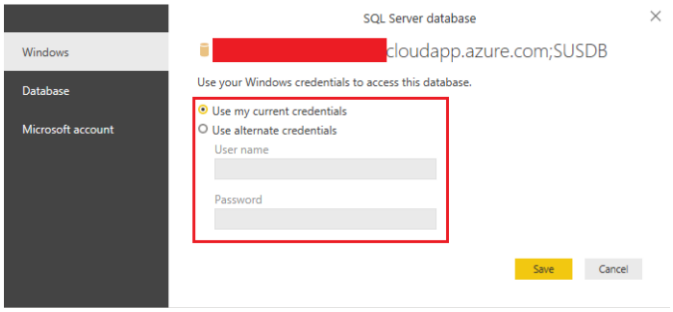
Basically, this PowerBI dashboard will consume all JSON file available under a determined path and will get some tables in SUSDB and execute some queries in SUSDB.

This JSON files are the results from the previously executed PowerShell cmdlets to create/extract them from SUGAPI website. Now we will configure PBI dashboard to get information from JSON file stored in a previous path, and we must configure the SUSDB connection.

Steps	Illustrative image
1. Open the "Security - Analyze-KBs-Superseded.pbix"	
2. Click on **Edit Queries** > **Data source settings**	
3. Change the sources, as needed. **IMPORTANT:** in this sample c:\temp\sugapi é the folder where you have created the JSON files. And the databaseserver.eastus.cloudapp.azure.com; SUSDB where the WSUS Server and the database are.	

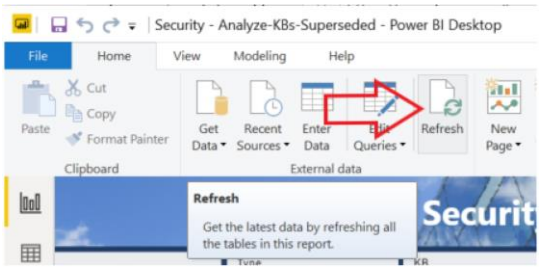
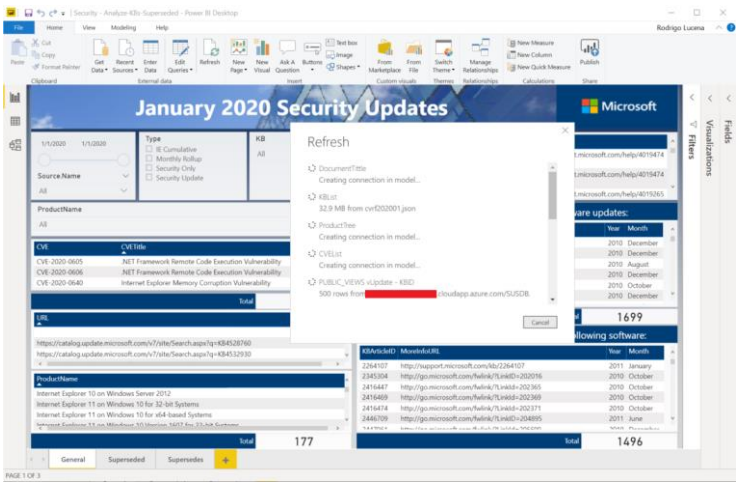
Steps	Illustrative image
4. Assuming you have to change the source for JSON files, so select c:\temp\sugapi and click on "Change Source".	
5. Specify the correct folder and click "**OK**" **Remember:** this is the folder where you generated the json files, when the PowerShell cmdlets was executed.	
6. To change the connection to SUSDB, select the current connection and click on "Change Source"	

Steps	Illustrative image
7. Specify the correct server name and database, and click “OK”	
8. Click on “Edit Permissions”	
9. Click on Edit…	

Steps	Illustrative image
10. Configure the credential to access the SUSDB, then click OK and Close to return to main page.	

2.4.1 How to update data in PowerBI Dashboard

Once you have changed the Server connection and configured the source file properly, you have to update all data. Follow the instructions bellow to update the dashboard.

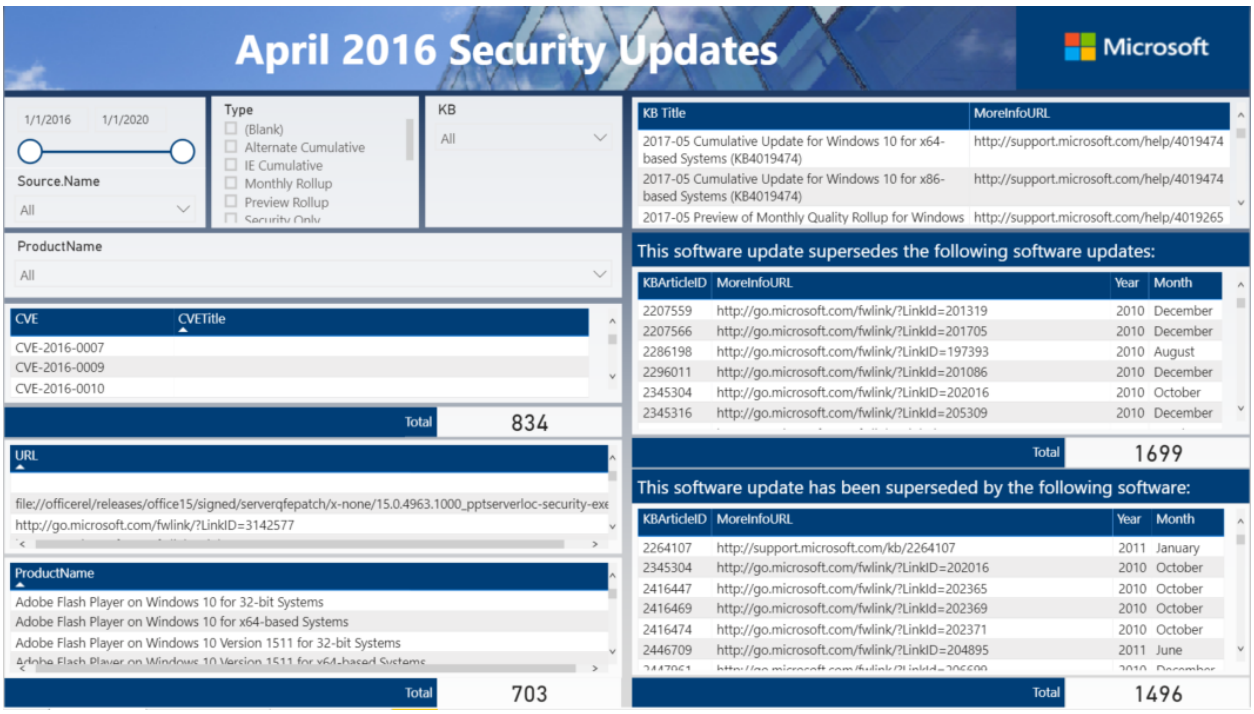
Steps	Illustrative image
1. On the main screen, click on "Refresh"	
2. If everything is configured properly the dashboard will be updated.	

3 Understanding and explaining the results

Once we have the PowerBI Dashboard updated, it is easy to get info about CVE, KB, Superseded KB and so on.

There is a variety of options to filter information, thus you can filter by period of time, by JSON file (Source.Name), Type of update, also KB number or ProductName.

Once you have applied those filters you will have the information about the URL to download the fix or the URL that explains the fix. Additionally, you will see the both newer and older KB based on your filters.

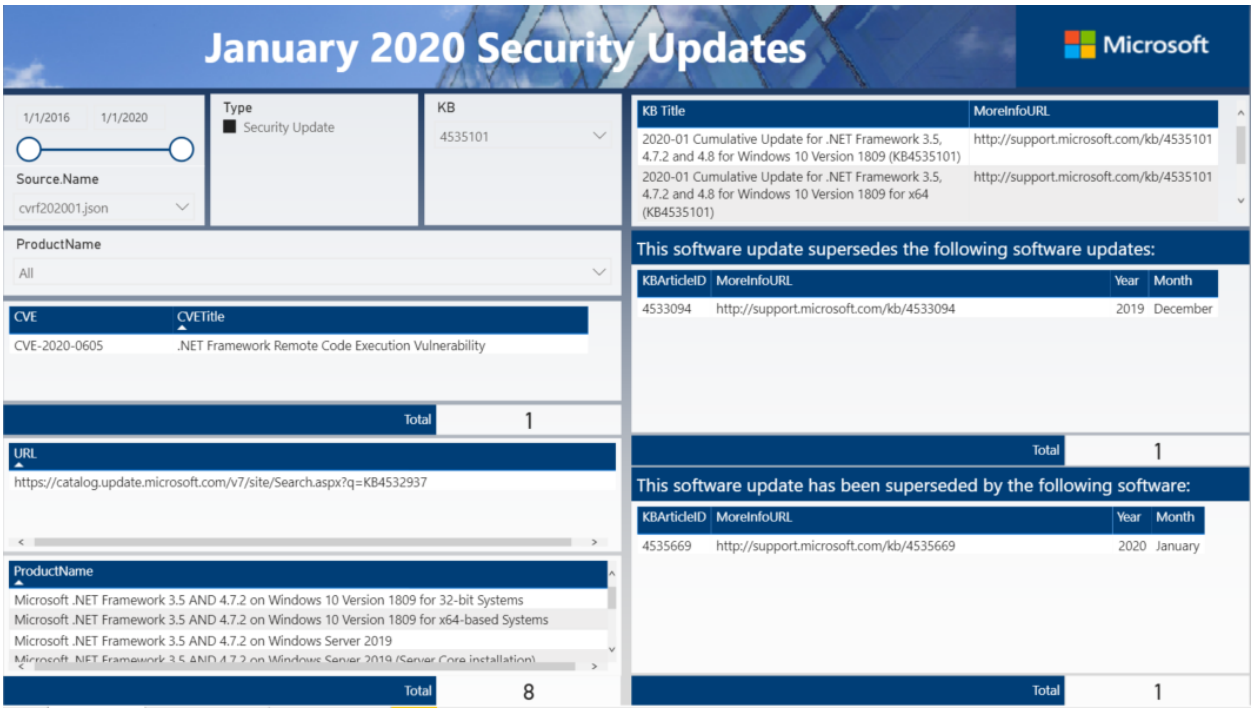


SAMPLE 001: Dashboard -> General tab

Source.Name: JSON from January 2020.

Type: Security Update.

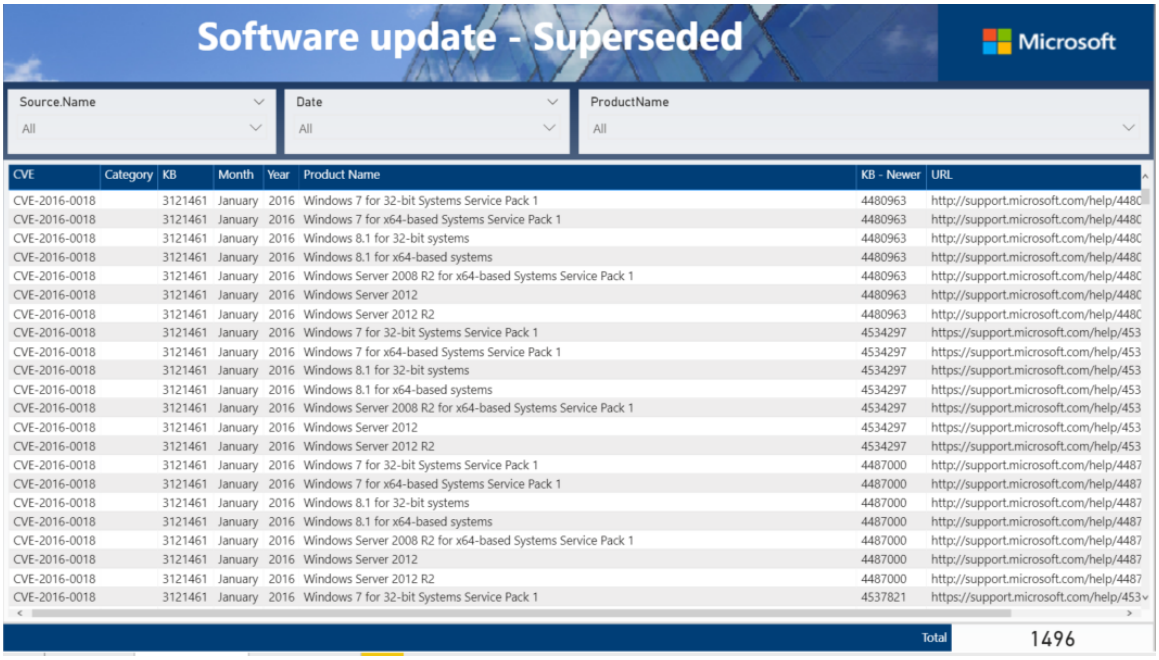
KB: 4535101.



So applying those filters, you got the information about URL do Download the fix from Microsoft Catalog, also info about the ProductName involved, more details about this KB we can consult the Microsoft Support webpage, and finally we can get information about the older KB (4533094 | December 2019) or the newer KB (4535669 | January 2020).

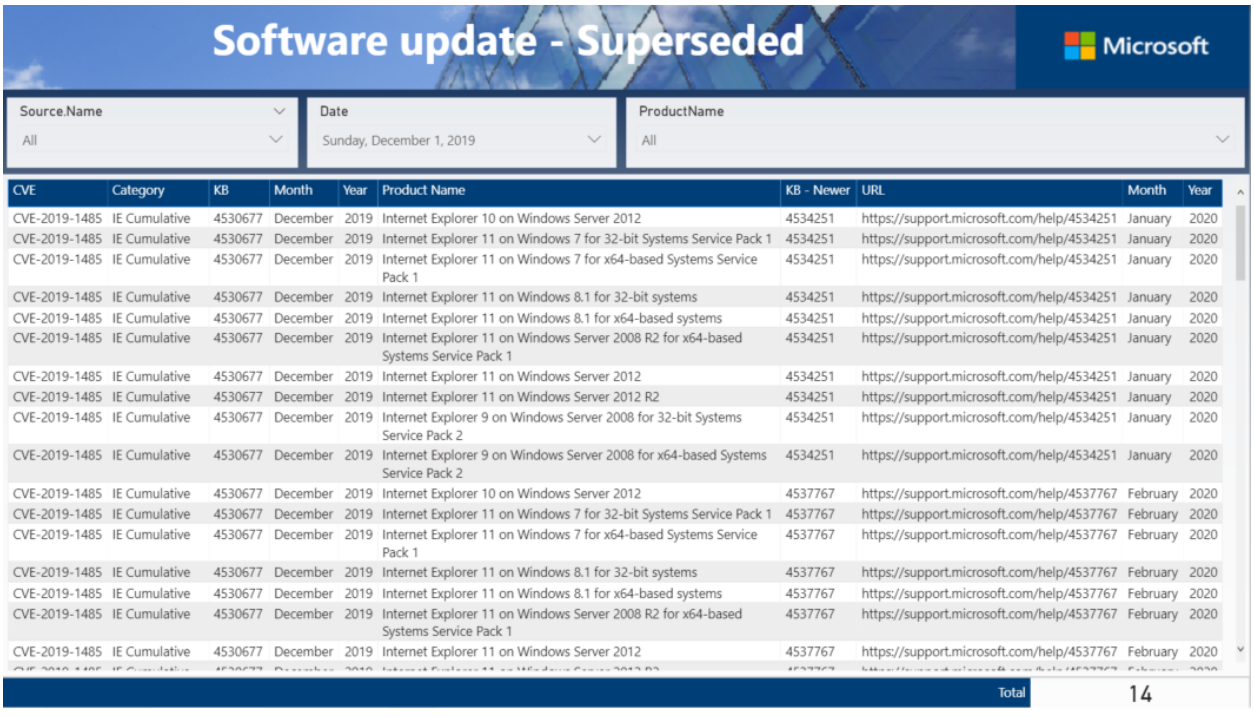
SAMPLE 002: Dashboard -> Superseded tab

In this tab is possible to get a list of all Superseded KB, based on Source.Name (JSON file), or by date, or also by product.



CVE	Category	KB	Month	Year	Product Name	KB - Newer	URL
CVE-2016-0018		3121461	January	2016	Windows 7 for 32-bit Systems Service Pack 1	4480963	http://support.microsoft.com/help/448(
CVE-2016-0018		3121461	January	2016	Windows 7 for x64-based Systems Service Pack 1	4480963	http://support.microsoft.com/help/448(
CVE-2016-0018		3121461	January	2016	Windows 8.1 for 32-bit systems	4480963	http://support.microsoft.com/help/448(
CVE-2016-0018		3121461	January	2016	Windows 8.1 for x64-based systems	4480963	http://support.microsoft.com/help/448(
CVE-2016-0018		3121461	January	2016	Windows Server 2008 R2 for x64-based Systems Service Pack 1	4480963	http://support.microsoft.com/help/448(
CVE-2016-0018		3121461	January	2016	Windows Server 2012	4480963	http://support.microsoft.com/help/448(
CVE-2016-0018		3121461	January	2016	Windows Server 2012 R2	4480963	http://support.microsoft.com/help/448(
CVE-2016-0018		3121461	January	2016	Windows 7 for 32-bit Systems Service Pack 1	4534297	https://support.microsoft.com/help/453
CVE-2016-0018		3121461	January	2016	Windows 7 for x64-based Systems Service Pack 1	4534297	https://support.microsoft.com/help/453
CVE-2016-0018		3121461	January	2016	Windows 8.1 for 32-bit systems	4534297	https://support.microsoft.com/help/453
CVE-2016-0018		3121461	January	2016	Windows 8.1 for x64-based systems	4534297	https://support.microsoft.com/help/453
CVE-2016-0018		3121461	January	2016	Windows Server 2008 R2 for x64-based Systems Service Pack 1	4534297	https://support.microsoft.com/help/453
CVE-2016-0018		3121461	January	2016	Windows Server 2012	4534297	https://support.microsoft.com/help/453
CVE-2016-0018		3121461	January	2016	Windows Server 2012 R2	4534297	https://support.microsoft.com/help/453
CVE-2016-0018		3121461	January	2016	Windows 7 for 32-bit Systems Service Pack 1	4487000	http://support.microsoft.com/help/4487
CVE-2016-0018		3121461	January	2016	Windows 7 for x64-based Systems Service Pack 1	4487000	http://support.microsoft.com/help/4487
CVE-2016-0018		3121461	January	2016	Windows 8.1 for 32-bit systems	4487000	http://support.microsoft.com/help/4487
CVE-2016-0018		3121461	January	2016	Windows 8.1 for x64-based systems	4487000	http://support.microsoft.com/help/4487
CVE-2016-0018		3121461	January	2016	Windows Server 2008 R2 for x64-based Systems Service Pack 1	4487000	http://support.microsoft.com/help/4487
CVE-2016-0018		3121461	January	2016	Windows Server 2012	4487000	http://support.microsoft.com/help/4487
CVE-2016-0018		3121461	January	2016	Windows Server 2012 R2	4487000	http://support.microsoft.com/help/4487
CVE-2016-0018		3121461	January	2016	Windows 7 for 32-bit Systems Service Pack 1	4537821	https://support.microsoft.com/help/453
Total							1496

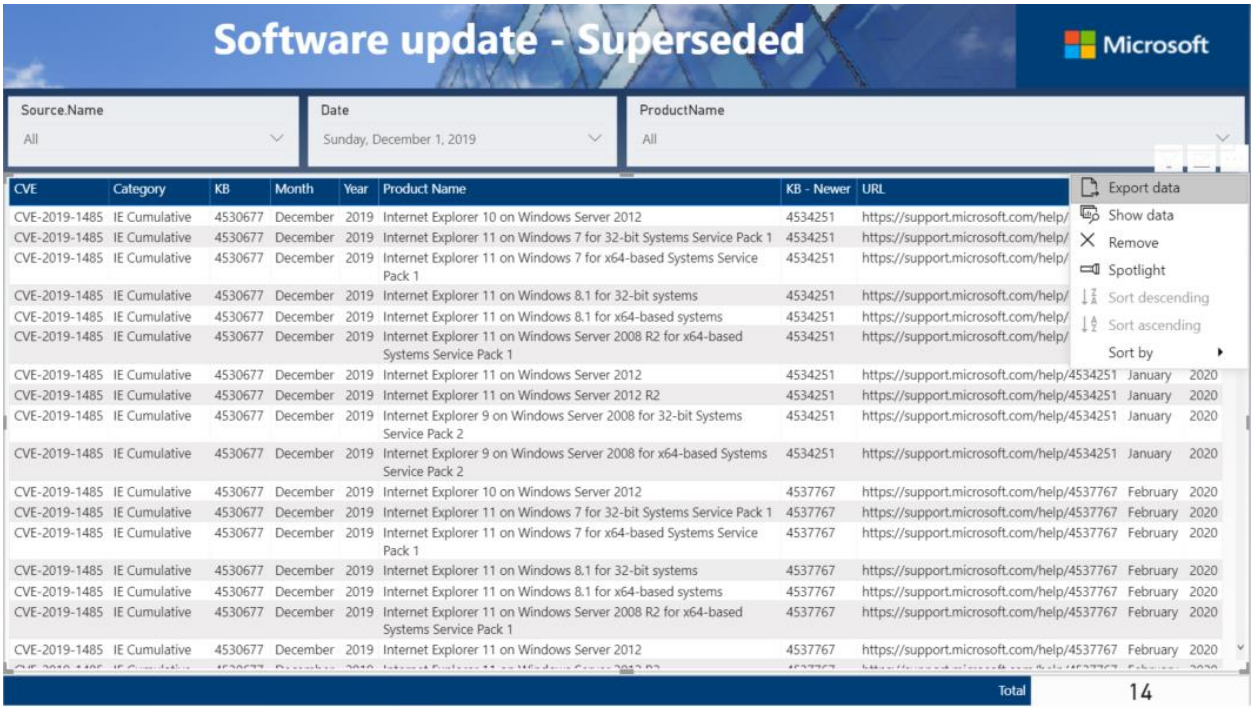
Let's say we need to know the KB newer based on all KB delivered on December 2019.



CVE	Category	KB	Month	Year	Product Name	KB - Newer	URL	Month	Year
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 10 on Windows Server 2012	4534251	https://support.microsoft.com/help/4534251	January	2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows 7 for 32-bit Systems Service Pack 1	4534251	https://support.microsoft.com/help/4534251	January	2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows 7 for x64-based Systems Service Pack 1	4534251	https://support.microsoft.com/help/4534251	January	2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows 8.1 for 32-bit systems	4534251	https://support.microsoft.com/help/4534251	January	2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows 8.1 for x64-based systems	4534251	https://support.microsoft.com/help/4534251	January	2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows Server 2008 R2 for x64-based Systems Service Pack 1	4534251	https://support.microsoft.com/help/4534251	January	2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows Server 2012	4534251	https://support.microsoft.com/help/4534251	January	2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows Server 2012 R2	4534251	https://support.microsoft.com/help/4534251	January	2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 9 on Windows Server 2008 for 32-bit Systems Service Pack 2	4534251	https://support.microsoft.com/help/4534251	January	2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 9 on Windows Server 2008 for x64-based Systems Service Pack 2	4534251	https://support.microsoft.com/help/4534251	January	2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 10 on Windows Server 2012	4537767	https://support.microsoft.com/help/4537767	February	2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows 7 for 32-bit Systems Service Pack 1	4537767	https://support.microsoft.com/help/4537767	February	2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows 7 for x64-based Systems Service Pack 1	4537767	https://support.microsoft.com/help/4537767	February	2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows 8.1 for 32-bit systems	4537767	https://support.microsoft.com/help/4537767	February	2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows 8.1 for x64-based systems	4537767	https://support.microsoft.com/help/4537767	February	2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows Server 2008 R2 for x64-based Systems Service Pack 1	4537767	https://support.microsoft.com/help/4537767	February	2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows Server 2012	4537767	https://support.microsoft.com/help/4537767	February	2020
Total									14

So now we have a list of current KB (December/2019 our filter), and the KB-Newer its URL and Date.

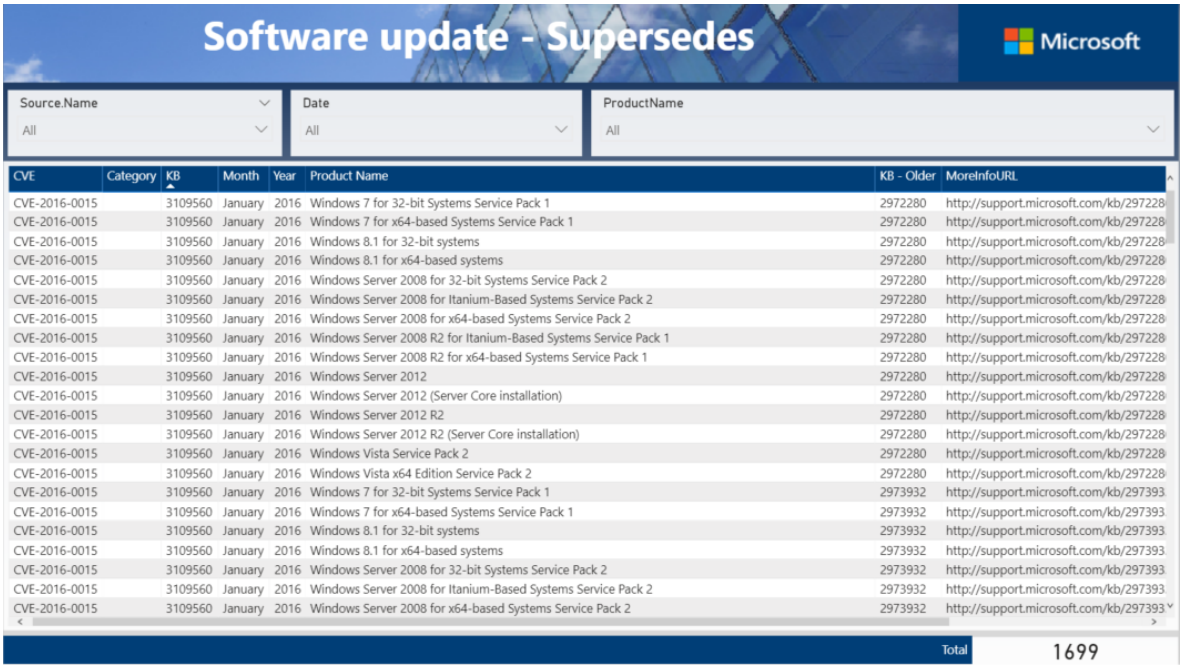
It's also possible to export this list to CSV file, if is needed. To do that click on the list (anywhere), then click on (…) upper right corner, then click on "Export data"



CVE	Category	KB	Month	Year	Product Name	KB - Newer	URL
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 10 on Windows Server 2012	4534251	https://support.microsoft.com/help/
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows 7 for 32-bit Systems Service Pack 1	4534251	https://support.microsoft.com/help/
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows 7 for x64-based Systems Service Pack 1	4534251	https://support.microsoft.com/help/
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows 8.1 for 32-bit systems	4534251	https://support.microsoft.com/help/
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows 8.1 for x64-based systems	4534251	https://support.microsoft.com/help/
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows Server 2008 R2 for x64-based Systems Service Pack 1	4534251	https://support.microsoft.com/help/
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows Server 2012	4534251	https://support.microsoft.com/help/4534251 January 2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows Server 2012 R2	4534251	https://support.microsoft.com/help/4534251 January 2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 9 on Windows Server 2008 for 32-bit Systems Service Pack 2	4534251	https://support.microsoft.com/help/4534251 January 2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 9 on Windows Server 2008 for x64-based Systems Service Pack 2	4534251	https://support.microsoft.com/help/4534251 January 2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 10 on Windows Server 2012	4537767	https://support.microsoft.com/help/4537767 February 2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows 7 for 32-bit Systems Service Pack 1	4537767	https://support.microsoft.com/help/4537767 February 2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows 7 for x64-based Systems Service Pack 1	4537767	https://support.microsoft.com/help/4537767 February 2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows 8.1 for 32-bit systems	4537767	https://support.microsoft.com/help/4537767 February 2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows 8.1 for x64-based systems	4537767	https://support.microsoft.com/help/4537767 February 2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows Server 2008 R2 for x64-based Systems Service Pack 1	4537767	https://support.microsoft.com/help/4537767 February 2020
CVE-2019-1485	IE Cumulative	4530677	December	2019	Internet Explorer 11 on Windows Server 2012	4537767	https://support.microsoft.com/help/4537767 February 2020

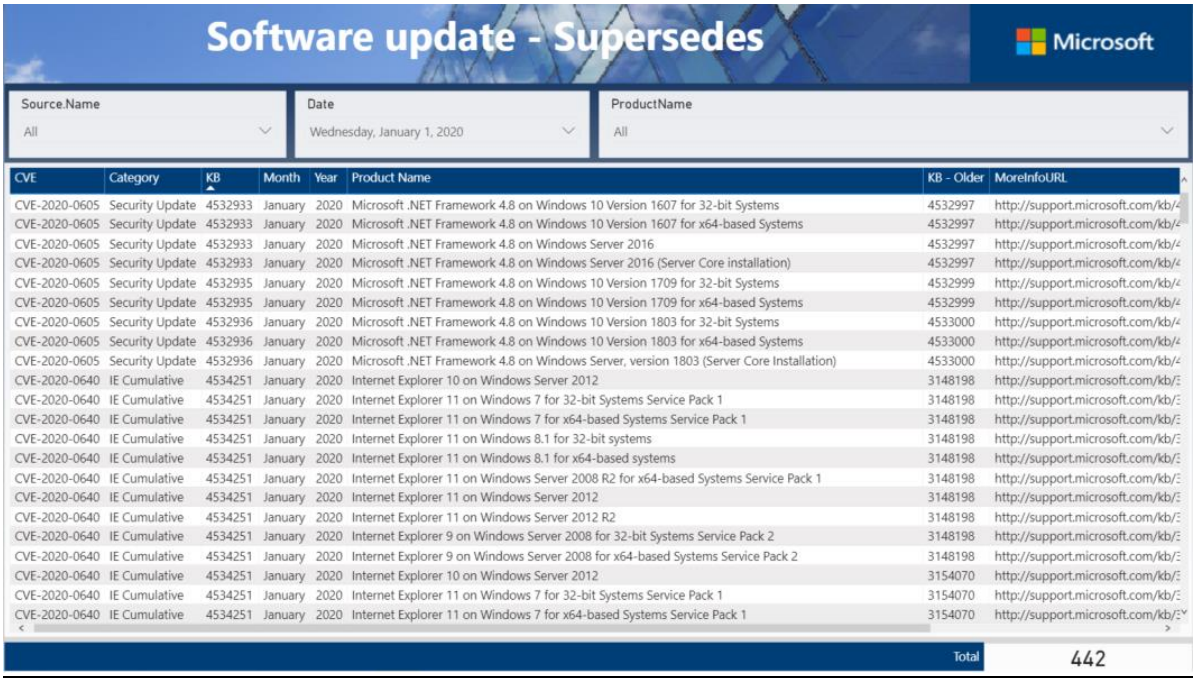
SAMPLE 003: Dashboard -> Supersedes tab

In this tab is possible to get a list of all Supersedes KB, based on Source.Name (JSON file), or by date, or also by product.



CVE	Category	KB	Month	Year	Product Name	KB - Older	MoreInfoURL
CVE-2016-0015		3109560	January	2016	Windows 7 for 32-bit Systems Service Pack 1	2972280	http://support.microsoft.com/kb/297228
CVE-2016-0015		3109560	January	2016	Windows 7 for x64-based Systems Service Pack 1	2972280	http://support.microsoft.com/kb/297228
CVE-2016-0015		3109560	January	2016	Windows 8.1 for 32-bit systems	2972280	http://support.microsoft.com/kb/297228
CVE-2016-0015		3109560	January	2016	Windows 8.1 for x64-based systems	2972280	http://support.microsoft.com/kb/297228
CVE-2016-0015		3109560	January	2016	Windows Server 2008 for 32-bit Systems Service Pack 2	2972280	http://support.microsoft.com/kb/297228
CVE-2016-0015		3109560	January	2016	Windows Server 2008 for Itanium-Based Systems Service Pack 2	2972280	http://support.microsoft.com/kb/297228
CVE-2016-0015		3109560	January	2016	Windows Server 2008 for x64-based Systems Service Pack 2	2972280	http://support.microsoft.com/kb/297228
CVE-2016-0015		3109560	January	2016	Windows Server 2008 R2 for Itanium-Based Systems Service Pack 1	2972280	http://support.microsoft.com/kb/297228
CVE-2016-0015		3109560	January	2016	Windows Server 2008 R2 for x64-based Systems Service Pack 1	2972280	http://support.microsoft.com/kb/297228
CVE-2016-0015		3109560	January	2016	Windows Server 2012	2972280	http://support.microsoft.com/kb/297228
CVE-2016-0015		3109560	January	2016	Windows Server 2012 (Server Core installation)	2972280	http://support.microsoft.com/kb/297228
CVE-2016-0015		3109560	January	2016	Windows Server 2012 R2	2972280	http://support.microsoft.com/kb/297228
CVE-2016-0015		3109560	January	2016	Windows Server 2012 R2 (Server Core installation)	2972280	http://support.microsoft.com/kb/297228
CVE-2016-0015		3109560	January	2016	Windows Vista Service Pack 2	2972280	http://support.microsoft.com/kb/297228
CVE-2016-0015		3109560	January	2016	Windows Vista x64 Edition Service Pack 2	2972280	http://support.microsoft.com/kb/297228
CVE-2016-0015		3109560	January	2016	Windows 7 for 32-bit Systems Service Pack 1	2973932	http://support.microsoft.com/kb/297393
CVE-2016-0015		3109560	January	2016	Windows 7 for x64-based Systems Service Pack 1	2973932	http://support.microsoft.com/kb/297393
CVE-2016-0015		3109560	January	2016	Windows 8.1 for 32-bit systems	2973932	http://support.microsoft.com/kb/297393
CVE-2016-0015		3109560	January	2016	Windows 8.1 for x64-based systems	2973932	http://support.microsoft.com/kb/297393
CVE-2016-0015		3109560	January	2016	Windows Server 2008 for 32-bit Systems Service Pack 2	2973932	http://support.microsoft.com/kb/297393
CVE-2016-0015		3109560	January	2016	Windows Server 2008 for Itanium-Based Systems Service Pack 2	2973932	http://support.microsoft.com/kb/297393
CVE-2016-0015		3109560	January	2016	Windows Server 2008 for x64-based Systems Service Pack 2	2973932	http://support.microsoft.com/kb/297393

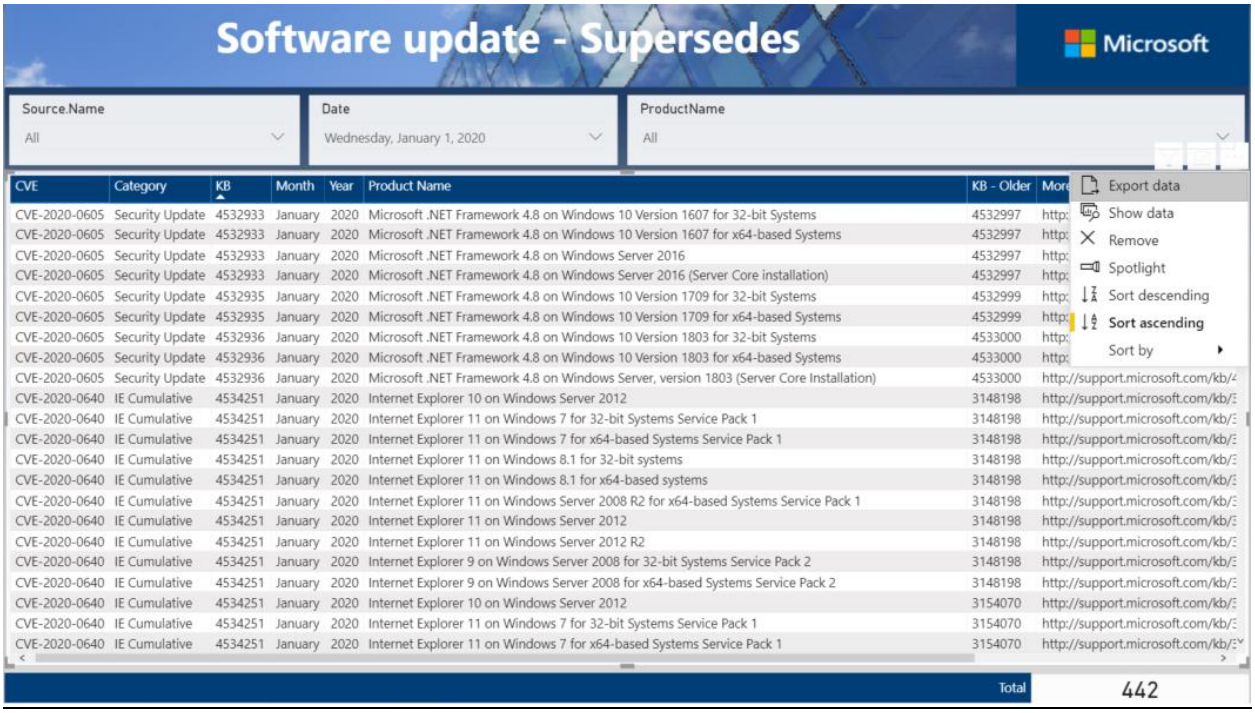
Let's say we need to know all older KB based on KB delivered on January 2020.



CVE	Category	KB	Month	Year	Product Name	KB - Older	MoreInfoURL
CVE-2020-0605	Security Update	4532933	January	2020	Microsoft .NET Framework 4.8 on Windows 10 Version 1607 for 32-bit Systems	4532997	http://support.microsoft.com/kb/4
CVE-2020-0605	Security Update	4532933	January	2020	Microsoft .NET Framework 4.8 on Windows 10 Version 1607 for x64-based Systems	4532997	http://support.microsoft.com/kb/4
CVE-2020-0605	Security Update	4532933	January	2020	Microsoft .NET Framework 4.8 on Windows Server 2016	4532997	http://support.microsoft.com/kb/4
CVE-2020-0605	Security Update	4532933	January	2020	Microsoft .NET Framework 4.8 on Windows Server 2016 (Server Core installation)	4532997	http://support.microsoft.com/kb/4
CVE-2020-0605	Security Update	4532935	January	2020	Microsoft .NET Framework 4.8 on Windows 10 Version 1709 for 32-bit Systems	4532999	http://support.microsoft.com/kb/4
CVE-2020-0605	Security Update	4532935	January	2020	Microsoft .NET Framework 4.8 on Windows 10 Version 1709 for x64-based Systems	4532999	http://support.microsoft.com/kb/4
CVE-2020-0605	Security Update	4532936	January	2020	Microsoft .NET Framework 4.8 on Windows 10 Version 1803 for 32-bit Systems	4533000	http://support.microsoft.com/kb/4
CVE-2020-0605	Security Update	4532936	January	2020	Microsoft .NET Framework 4.8 on Windows 10 Version 1803 for x64-based Systems	4533000	http://support.microsoft.com/kb/4
CVE-2020-0605	Security Update	4532936	January	2020	Microsoft .NET Framework 4.8 on Windows Server, version 1803 (Server Core Installation)	4533000	http://support.microsoft.com/kb/4
CVE-2020-0640	IE Cumulative	4534251	January	2020	Internet Explorer 10 on Windows Server 2012	3148198	http://support.microsoft.com/kb/3
CVE-2020-0640	IE Cumulative	4534251	January	2020	Internet Explorer 11 on Windows 7 for 32-bit Systems Service Pack 1	3148198	http://support.microsoft.com/kb/3
CVE-2020-0640	IE Cumulative	4534251	January	2020	Internet Explorer 11 on Windows 7 for x64-based Systems Service Pack 1	3148198	http://support.microsoft.com/kb/3
CVE-2020-0640	IE Cumulative	4534251	January	2020	Internet Explorer 11 on Windows 8.1 for 32-bit systems	3148198	http://support.microsoft.com/kb/3
CVE-2020-0640	IE Cumulative	4534251	January	2020	Internet Explorer 11 on Windows 8.1 for x64-based systems	3148198	http://support.microsoft.com/kb/3
CVE-2020-0640	IE Cumulative	4534251	January	2020	Internet Explorer 11 on Windows Server 2008 R2 for x64-based Systems Service Pack 1	3148198	http://support.microsoft.com/kb/3
CVE-2020-0640	IE Cumulative	4534251	January	2020	Internet Explorer 11 on Windows Server 2012	3148198	http://support.microsoft.com/kb/3
CVE-2020-0640	IE Cumulative	4534251	January	2020	Internet Explorer 11 on Windows Server 2012 R2	3148198	http://support.microsoft.com/kb/3
CVE-2020-0640	IE Cumulative	4534251	January	2020	Internet Explorer 9 on Windows Server 2008 for 32-bit Systems Service Pack 2	3148198	http://support.microsoft.com/kb/3
CVE-2020-0640	IE Cumulative	4534251	January	2020	Internet Explorer 9 on Windows Server 2008 for x64-based Systems Service Pack 2	3148198	http://support.microsoft.com/kb/3
CVE-2020-0640	IE Cumulative	4534251	January	2020	Internet Explorer 10 on Windows Server 2012	3154070	http://support.microsoft.com/kb/3
CVE-2020-0640	IE Cumulative	4534251	January	2020	Internet Explorer 11 on Windows 7 for 32-bit Systems Service Pack 1	3154070	http://support.microsoft.com/kb/3
CVE-2020-0640	IE Cumulative	4534251	January	2020	Internet Explorer 11 on Windows 7 for x64-based Systems Service Pack 1	3154070	http://support.microsoft.com/kb/3

So now we have a list of current KB (Jan/2020 our filter), and the KB-Older, its URL and Date.

It's also possible to export this list to CSV file, if is needed. To do that click on the list (anywhere), then click on (…) upper right corner, then click on "Export data"



CVE	Category	KB	Month	Year	Product Name	KB - Older	More
CVE-2020-0605	Security Update	4532933	January	2020	Microsoft .NET Framework 4.8 on Windows 10 Version 1607 for 32-bit Systems	4532997	http:
CVE-2020-0605	Security Update	4532933	January	2020	Microsoft .NET Framework 4.8 on Windows 10 Version 1607 for x64-based Systems	4532997	http:
CVE-2020-0605	Security Update	4532933	January	2020	Microsoft .NET Framework 4.8 on Windows Server 2016	4532997	http:
CVE-2020-0605	Security Update	4532933	January	2020	Microsoft .NET Framework 4.8 on Windows Server 2016 (Server Core installation)	4532997	http:
CVE-2020-0605	Security Update	4532935	January	2020	Microsoft .NET Framework 4.8 on Windows 10 Version 1709 for 32-bit Systems	4532999	http:
CVE-2020-0605	Security Update	4532935	January	2020	Microsoft .NET Framework 4.8 on Windows 10 Version 1709 for x64-based Systems	4532999	http:
CVE-2020-0605	Security Update	4532936	January	2020	Microsoft .NET Framework 4.8 on Windows 10 Version 1803 for 32-bit Systems	4533000	http:
CVE-2020-0605	Security Update	4532936	January	2020	Microsoft .NET Framework 4.8 on Windows 10 Version 1803 for x64-based Systems	4533000	http:
CVE-2020-0605	Security Update	4532936	January	2020	Microsoft .NET Framework 4.8 on Windows Server, version 1803 (Server Core Installation)	4533000	http://support.microsoft.com/kb/4
CVE-2020-0640	IE Cumulative	4534251	January	2020	Internet Explorer 10 on Windows Server 2012	3148198	http://support.microsoft.com/kb/3
CVE-2020-0640	IE Cumulative	4534251	January	2020	Internet Explorer 11 on Windows 7 for 32-bit Systems Service Pack 1	3148198	http://support.microsoft.com/kb/3
CVE-2020-0640	IE Cumulative	4534251	January	2020	Internet Explorer 11 on Windows 7 for x64-based Systems Service Pack 1	3148198	http://support.microsoft.com/kb/3
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CVE-2020-0640	IE Cumulative	4534251	January	2020	Internet Explorer 11 on Windows 7 for x64-based Systems Service Pack 1	3154070	http://support.microsoft.com/kb/3