

IBM iDoctor for IBM i

Frequently Asked Questions

IBM iDoctor for IBM i Development Team

9 April 2025

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Abstract

This document covers frequently asked questions about iDoctor for IBM i from our users.

Changes

9 Apr 2025 – Updated sections 1.1, 1.4

19 Feb 2025 – Updated section 1.6

30 Sep 2024 – Updated section 4.8

5 Feb 2024 – Updated section 2.1

17 Oct 2023 – Updated section 2.1

14 Sep 2023 – Added section 1.23

31 July 2023 – Updated section 2.7

5 June 2023 – Updated to reflect latest changes for 2023 (removed SQLite support, QMGTOOLS no longer shipped with builds, etc)

24 Feb 2023 – Added new section 2.14

7 Dec 2022 – Moved section 2.13 to 1.21. Added section 1.22 on setting up secure connections to the IBM i.

5 Oct 2022 – Clarified support vs updates in section 1.6. Added section 4.14.

5 Sept 2022 – Fixed broken links. Updated support releases to 7.3+.

22 January 2022 – Added install related sections 2.11, 2.12 and 2.13.

13 January 2022 – Added sections 1.19 and 1.20 – collection status missing files and log4j

5 April 2021 – Updated most of the document; removed obsolete content

18 February 2021 – Added section on Job Watcher using PDI (PT1 – JW option) vs iDoctor

3 December 2020 – Added section on extract/export data to Excel

19 June 2020 – Updated IBM i install requirements to include library QSYSINC (section 2.2)

17 April 2020 – Added link to system tasks document (section 1.16)

19 Dec 2019 – Added new questions to Chapter 4

20 Nov 2019 – Created initial version. Copied content from the Developerworks website which is going away January 2020

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1 General Questions

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1.1 What is iDoctor?

IBM iDoctor for IBM i is a suite of software and associated services created to evaluate the health of your IBM i systems. It can also analyze nmon data captured on VIOS.

It includes these components for IBM i: PEX Analyzer, Job Watcher, Collection Services Investigator, Plan Cache Analyzer and Disk Watcher. These components are specifically geared towards pinpointing issues affecting system and application performance.

There is also a consulting service available where our expert consultants analyze your system using the iDoctor software and provide you detailed results of their findings as well as subsequent recommendations.

A link to our latest brochure:

https://public.dhe.ibm.com/services/us/igsc/idoctor/iDoctor_Brochure2023.pdf

A general overview presentation about iDoctor is available here:

<https://public.dhe.ibm.com/services/us/igsc/idoctor/iDoctorShortOverview.pdf>

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1.2 How do I get iDoctor?

iDoctor can be downloaded from either the [iDoctor website](#) or you can download iDoctor build images directly from our website:

<https://public.dhe.ibm.com/services/us/igsc/idoctor/web/>

If you wish to download the server build save files for IBM i manually, they are available here:

<https://public.dhe.ibm.com/services/us/igsc/idoctor/web/>

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1.3 Are trial periods available for the software?

Yes, a 45-day trial is available for each of the "try-and-buy" iDoctor components.

You must read and accept the license agreements:

[Job Watcher trial agreement](#) and/or

[PEX Analyzer trial agreement](#).

When filling out the [registration form](#), please specify the system serial number and processor group for each system you wish to run the software on.

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1.4 What does iDoctor cost?

Some parts of iDoctor are free and cost nothing except you must agree to our [license agreements](#).

The free components include: IBM i Explorer, Nmon and Knowledge Base.

All other iDoctor components are licensed under either Job Watcher (this includes Collection Services, Disk Watcher, and others) or PEX Analyzer.

To receive a price quote on either or both components please fill out this form:

<https://www-03.ibm.com/systems/campaignmail/services/labservices/iDoctor/requestform.html>

iDoctor is sold via Technology Services Statements of Work (SOWs.) Pricing will vary by geography and whether it is purchased via Business Partners.

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1.5 Which tool should I use to analyze disk performance on IBM i?

Typically, users should start with the Disk folder within the Collection Services Investigator component. This provides many views of disk performance on the system.

Report folder	Description
Read and write rates for ASP <<DSASP>>	
Read/write size averages for ASP <<DSASP>>	
Read/write size rates for ASP <<DSASP>>	
Read/write categorized total response times for ASP <<DSASP>>	
Read/write categorized total service times for ASP <<DSASP>>	
Read/write categorized totals for ASP <<DSASP>>	
Read/write categorized rates for ASP <<DSASP>>	
Read/write size totals for ASP <<DSASP>>	
Read/write totals for ASP <<DSASP>>	
Read/write rates with cache statistics for ASP <<DSASP>>	
Disk percent full for ASP <<DSASP>>	
Disk percent busy for ASP <<DSASP>>	
Peaks and averages	Min/max/average response times for the collection
Reads and writes rates rankings	Reads and writes rates rankings
Read/write size averages rankings	Read/write size averages rankings
Read/write size rates rankings	Read/write size rates rankings
Read/write categorized total response times rankings	Read/write categorized total response times rankings
Read/write categorized total service times rankings	Read/write categorized total service times rankings
Read/write categorized totals rankings	Read/write categorized totals rankings
Read/write categorized rates rankings	Read/write categorized rates rankings
Read/write size totals rankings	Read/write size totals rankings
Disk percent full rankings	Disk percent full rankings
Disk percent busy rankings	Disk percent busy rankings

Collection Services Investigator – Disk graphs (INTERMEDIATE mode)

If more details are required, then PEX Analyzer provides a Physical disk I/O (PDIO) event analysis. This captures a trace of every single I/O that occurred during the collection and provides similar reporting options.

Disk Watcher is also available but is less frequently used by performance analysts due to some limitations of that component (it can miss I/Os during periods of high activity.)

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1.6 What IBM i releases are currently being updated and supported?

iDoctor updates at IBM i releases vs support are two different things that will vary depending upon if the customer has an IBM i service extension or not.

Typically, iDoctor will stop updating the server builds on specific IBM i releases on or shortly after IBM officially drops support or PTF fixes for an IBM i release. This means that iDoctor server builds will no longer be made for those older releases **but are still supported if the customer has a service extension.**

For more information on IBM i release life cycle visit: <https://www.ibm.com/support/pages/release-life-cycle>

This table summarizes the various iDoctor components and IBM i releases that are being updated, supported (with or without a service extension) and available.

Component	Supported	Supported (With service extension)	Updated	Available
PEX Analyzer	7.3 and higher (7.3+)	7.2 and higher (7.2+)	7.3+	5.2+
Job Watcher	7.3+	7.2+	7.3+	5.2+
Collection Services Investigator	7.3+	7.2+	7.3+	5.3+
Disk Watcher	7.3+	7.2+	7.3+	5.4+
Plan Cache Analyzer	7.3+	7.2+	7.3+	6.1+
IBM i Explorer	Not supported	Not supported	7.3+	5.4+

Note #1: Server builds are currently only updated at 7.3 and higher. Some functions may still work at older releases but are no longer tested.

Note #2: To avoid problems, when using iDoctor at releases where the server builds are no longer being updated you will need to download and install the server builds last released from the [Unsupported releases](#) page on our website. At 7.3 and up it is recommended to install the latest GUI build afterwards if you wish to receive support. Any fixes will be done on the GUI side only where possible. For 7.2 and older, do not install the latest GUI.

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1.7 I have purchased PT1 Job Watcher. Where are my iDoctor Job Watcher keys?

Sorry, buying PT1 (Performance Tools LPP) with the Job Watcher option does not entitle you to a license for iDoctor - Job Watcher.

5770PT1	1	Performance Tools - Manager Feature
5770PT1	2	Performance Tools - Agent Feature
5770PT1	3	Performance Tools - Job Watcher

IBM offers two different GUIs for Job Watcher, and these are provided by different groups within IBM. To buy iDoctor - Job Watcher you may [request a price quote](#).

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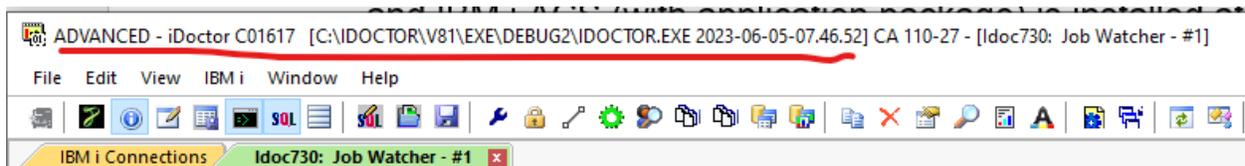
1.8 Do you have an iDoctor 'app' for Andriod or Apple devices?

No.

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1.9 How do I check the version of the iDoctor GUI installed?

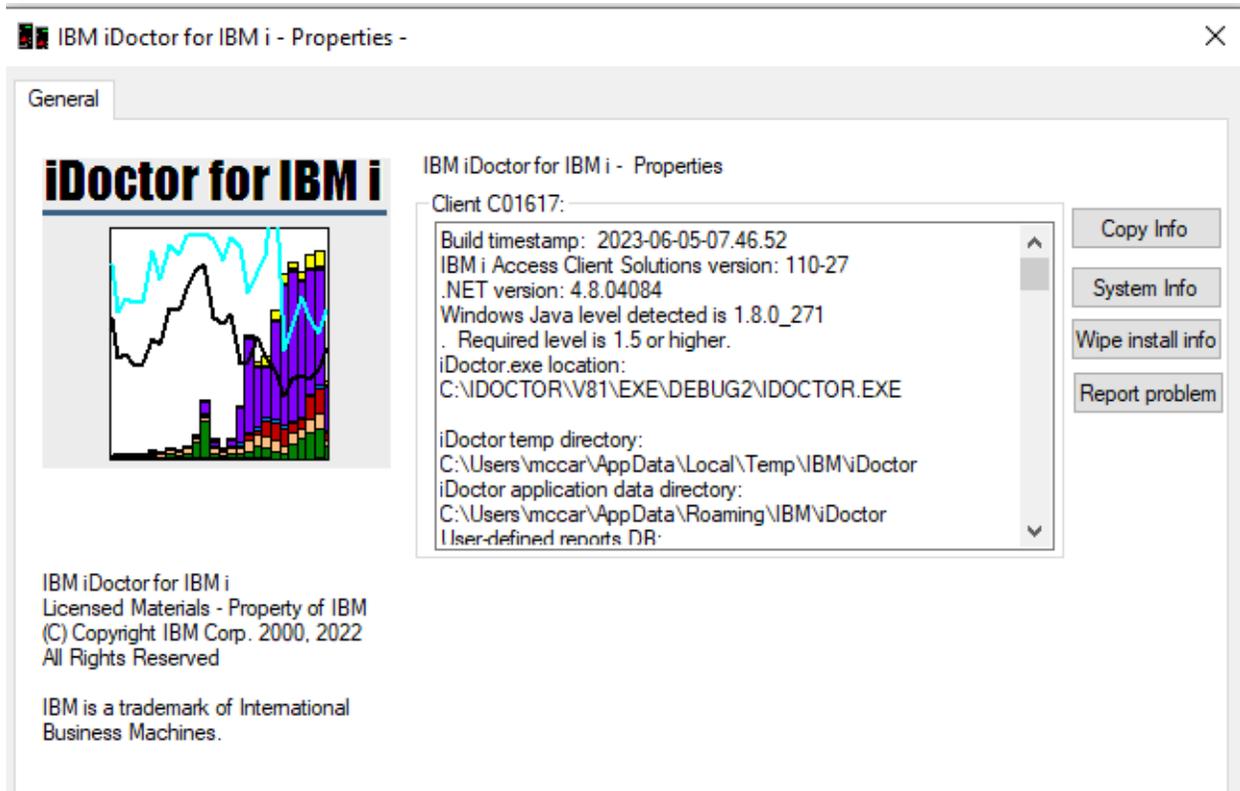
The GUI version information is listed in the title bar of the iDoctor Main Window. This includes the iDoctor GUI build number, the location and timestamp of the iDoctor.exe as well as the version of IBM i Access and SP level installed. When requesting help or submitting a bug report, please be sure to include a screenshot of this information.



iDoctor Main Window Title Bar

In this example, the client build number is 1617, the iDoctor.exe timestamp is June 5th, 2023 and IBM i ACS (with application package) is installed at version 1.1.0.27.

Additional information about can be found by clicking the  button in the toolbar (or using the Help -> About menu).



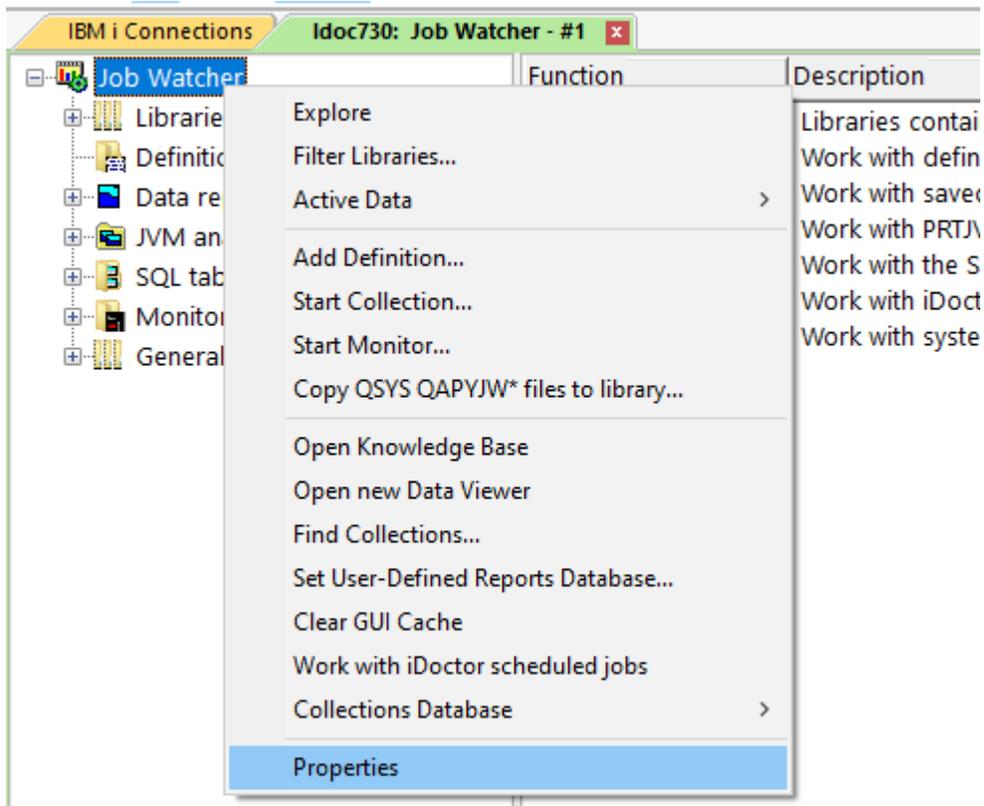
iDoctor Properties

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1.10 How do I check the version of iDoctor installed on IBM i?

1.10.1 From the GUI

To check this from the GUI you will first need to launch any of the IBM i components and connect with the desired system. Then to determine the build number right-click on the component icon (i.e. Job Watcher) within the tree and choose the Properties menu,



Job Watcher – Properties menu option

Information about the GUI and server will be shown on the next screen.

1.10.2 From the server

Data area QIDVRM contains the version information and exists in each iDoctor library (except QPLANCACHE and QMGTOOLS.)

```
DSPDTAARA DTAARA(QIDRGUI/QIDVRM)
DSPDTAARA DTAARA(QIDRWCH/QIDVRM)
DSPDTAARA DTAARA(QIDRPA/QIDVRM)
```

1.10.3 For QMGTOOLS

For the QMGTOOLS library run the commands:

```
ADDLIBLE QMGTOOLS
GO MG
```

Then use option 12 (Display build date)

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1.11 How do I get support for iDoctor?

iDoctor is supported only via the iDoctor email address idoctor@us.ibm.com. Send us a note and we will get back to you as soon as we can (typically 1 business day.).

Note: iDoctor is NOT supported by the IBM i Global Support Center over the phone and we don't use case numbers when working on iDoctor defects.

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1.12 How do I get support for QMGTOOLS?

QMGTOOLS is developed by a different team within IBM and is offered "as-is". Work with your IBM support contacts if you have any issues related to QMGTOOLS.

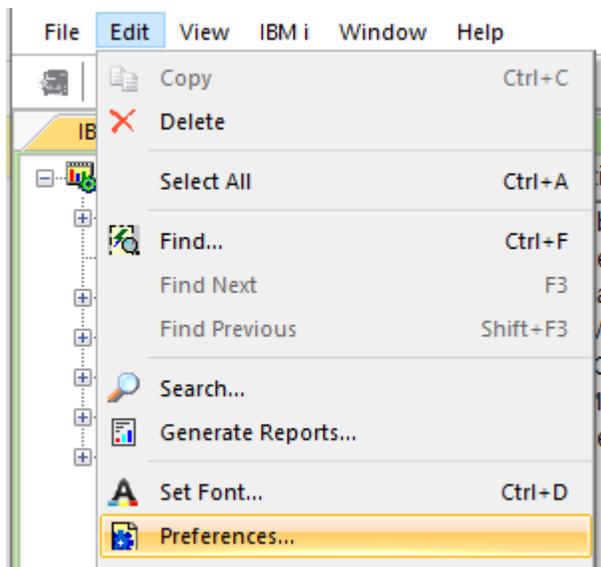
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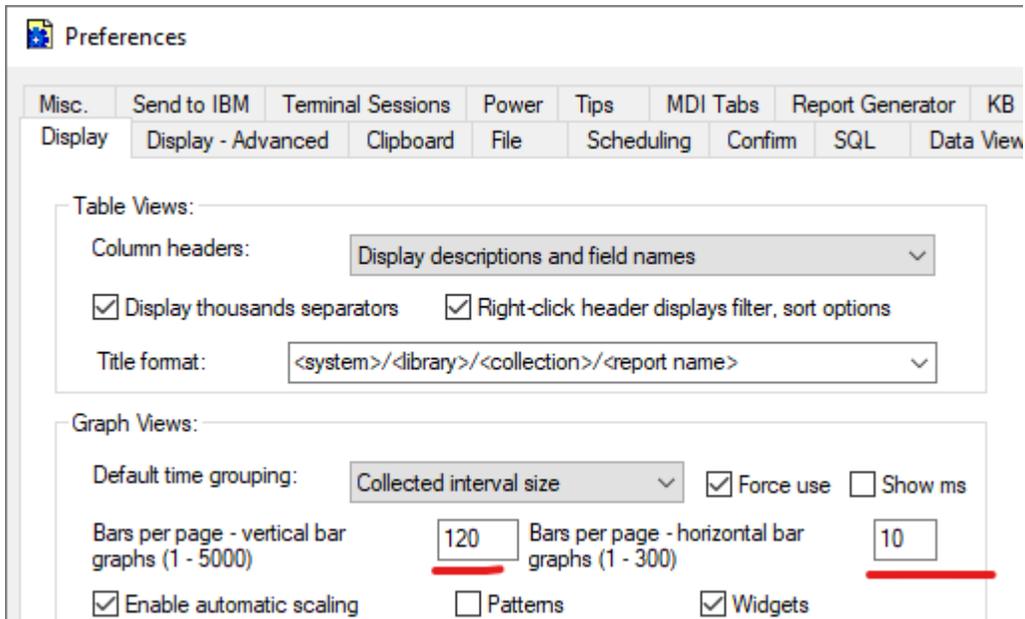
1.13 How do I get a graph's data all on one screen to avoid scrolling?

This depends on your preferences, there are a couple of different ways to do it or use a combination of both techniques.

Option 1. Increase the of bars per page preference to exceed the number of bars you are trying to graph.

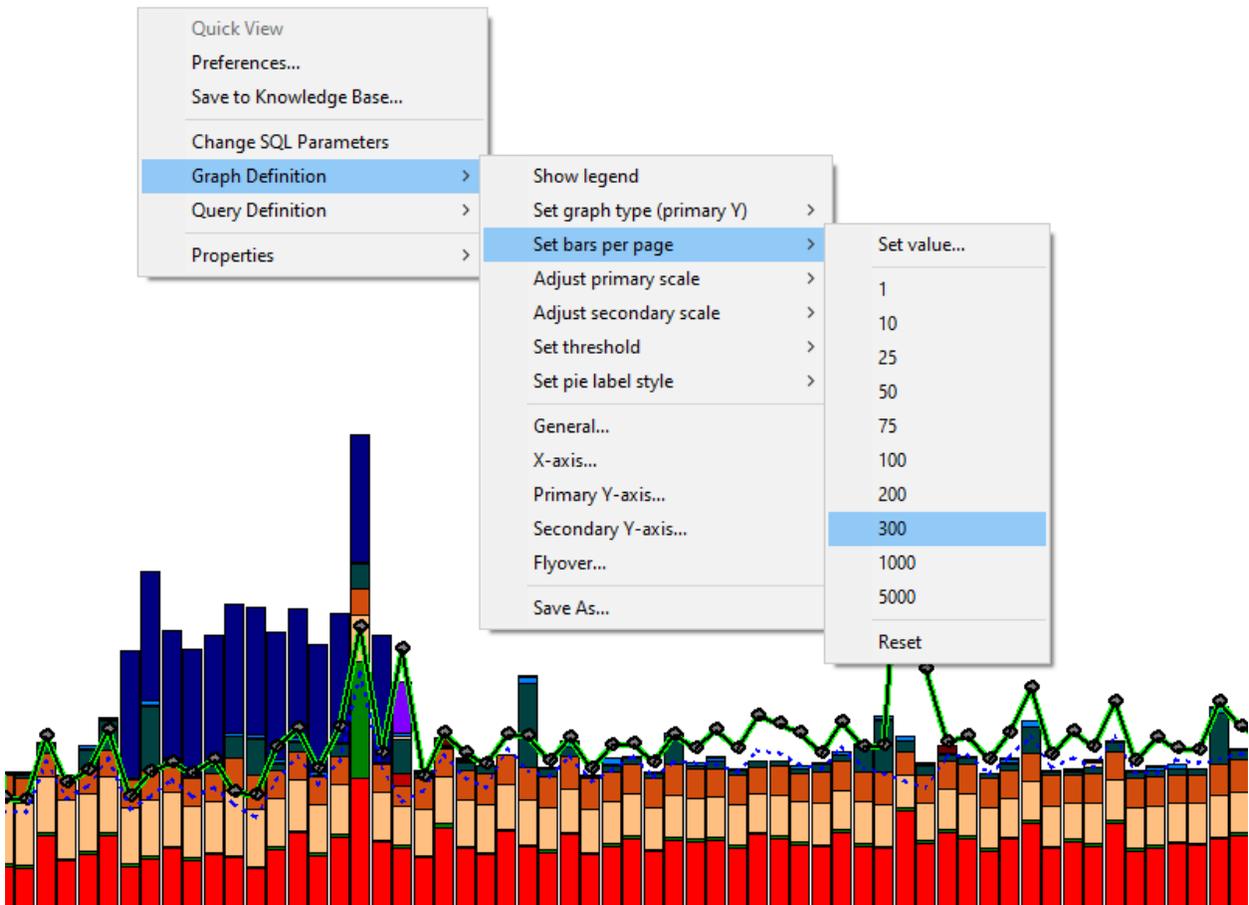
Use Edit -> Preferences -> Display





Preferences -> Display -> Bars per page settings

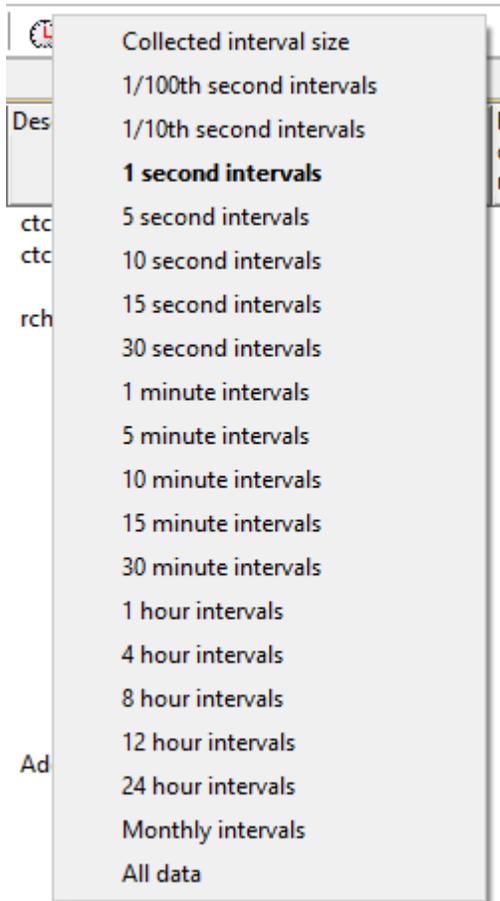
Option 2. Right-click the graph and use Graph definition->Set bars per page menu to desired value.



Graph Definition -> Set bars per page menu

Option 3. If you have a huge # of bars and the above is not feasible or you don't like the way it looks, then you can click the clock icon and use larger time groupings.

Clicking the clock icon from the main window sets that as a preference, and from the data viewer that will rerun the SQL for the current view. And by the way that preference is also in the above screenshot right above the bars per page setting called **Default time range size**..



Clock icon (menu) from the Main Window Toolbar

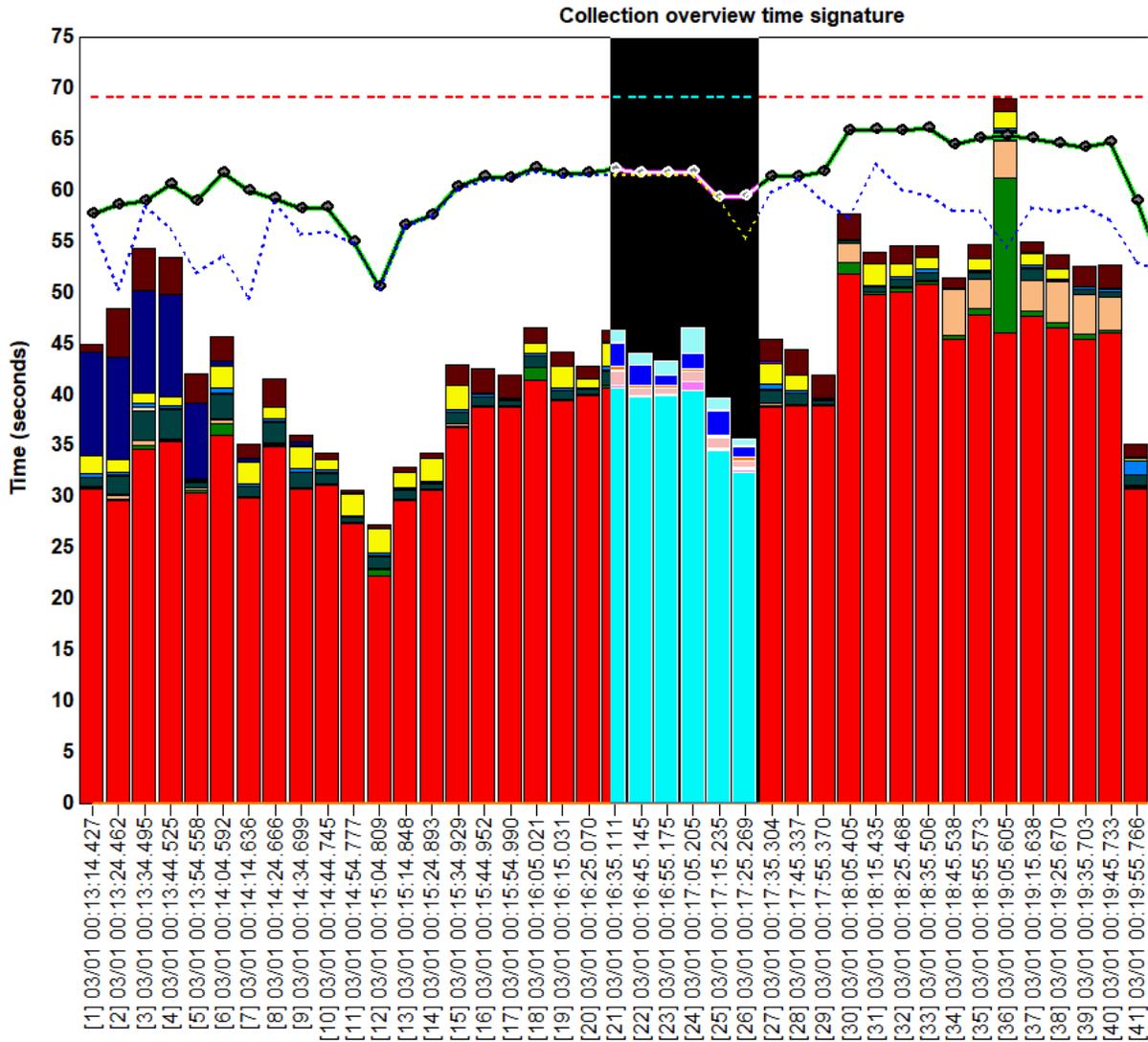
For example, if you are in Job Watcher and have 1 second intervals and 100 bars per page but have 10000 intervals you are trying to look at, picking something like 5 minutes is probably a better way to do it rather than scrolling through 100 pages.

But the most bars you can see at one time is 5000 and even that does not really work that well in practice, due to limits with the graphing package and the fact most screen resolutions cannot show every bar in that case anyway (the # of pixels in the monitor is not high enough).

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1.14 How do I zoom in and out on a graph?

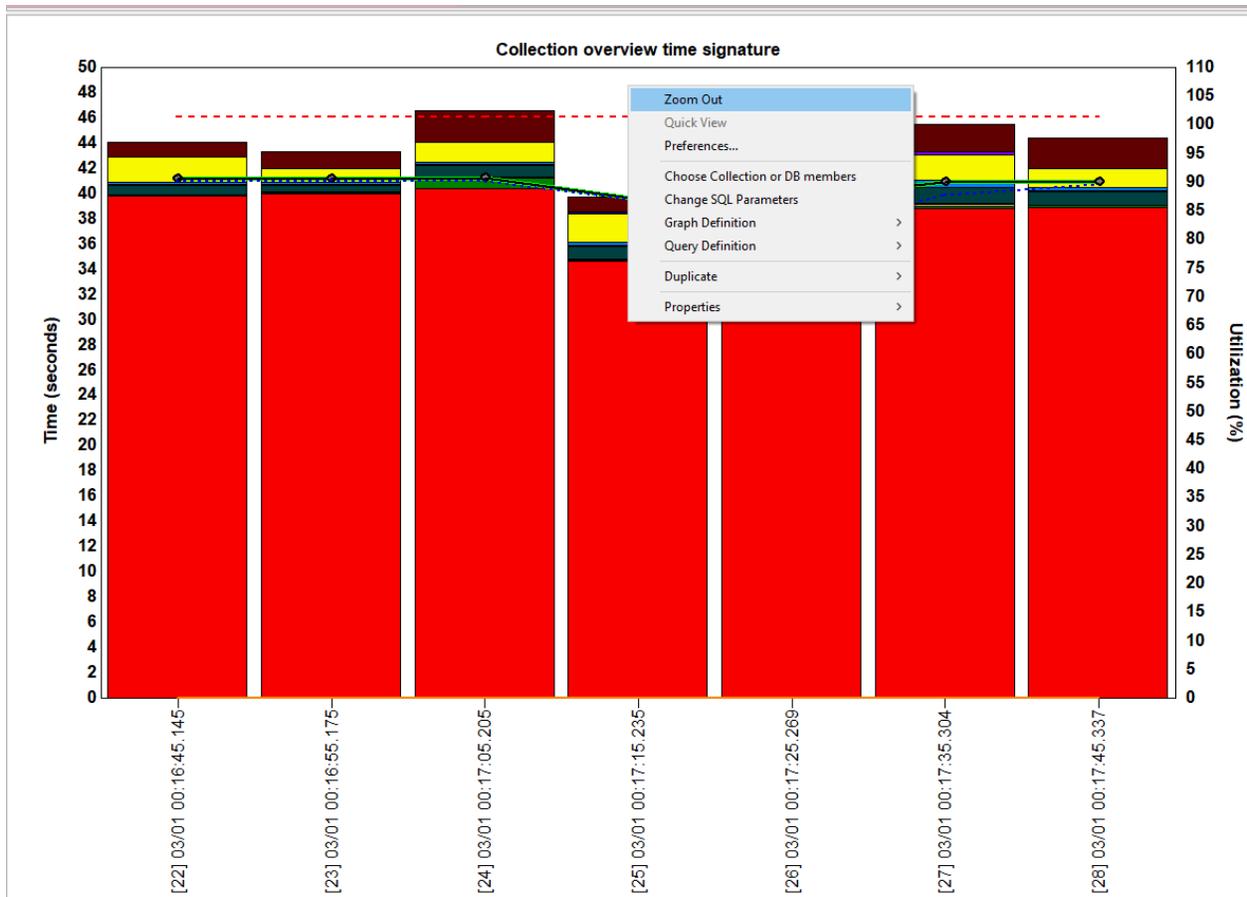
There isn't a zoom in menu option for graphs. The zoom in process is click AND HOLD down the left mouse button somewhere on the graph (on white space not on a bar or line). Then move the mouse to the right (for vertical bars) or down (horizontal bars) to create a selection, then release the left mouse button.



Zoom-in example

Note: The number of bars in the zoom selection must be greater than 3 for this to work. This is just to prevent an accidental zoom in if someone clicks and holds too long.

Once zoomed in, the zoom out process is right-click the graph and use the Zoom Out menu.



Zoom-out example

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1.15 What build level combinations should I install?

Generally, we recommend installing the latest client and server builds on all systems you wish to run iDoctor on. This is the environment where the iDoctor team will be best able to assist you in the event of a problem or you are needing a fix.

It is not recommended to run for example a very old client with newer server builds or vice versa. However, builds that were released on similar dates should mostly work correctly but some problems may exist and are sometimes difficult to diagnose or predict.

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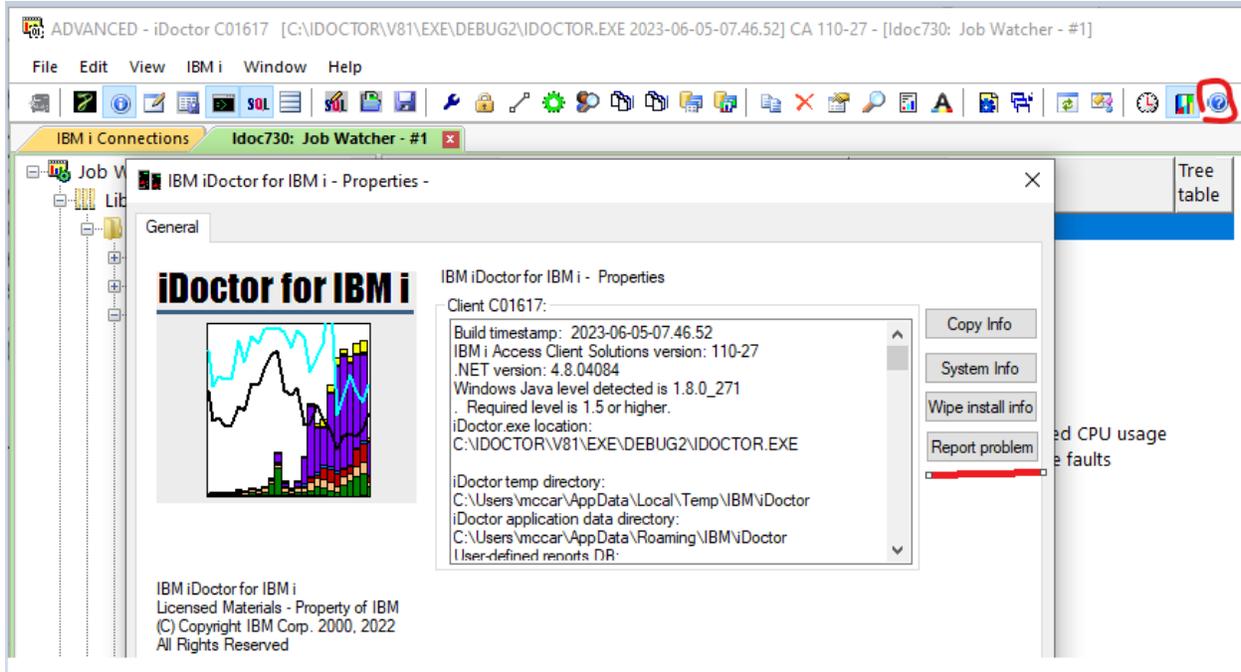
1.16 How do I report problems with the tools?

All issues are handled via the email address idoctor@us.ibm.com.

To report a problem, you can click the Help icon in the main window toolbar, then click the Report problem button in the resulting window. This will open your default email client and prepare to send information to IBM. Additionally, if it is an install problem, please include the setup log file and job log if available.

Be sure to include a brief description of the problem. Please include screenshots if possible. Use Alt-Print Screen to copy an image of the current screen to the Windows clipboard.

When including screenshots of graphs or tables do not crop them as additional debug information is included in the status bar when viewing reports about where the report exits in the iDoctor report databases.

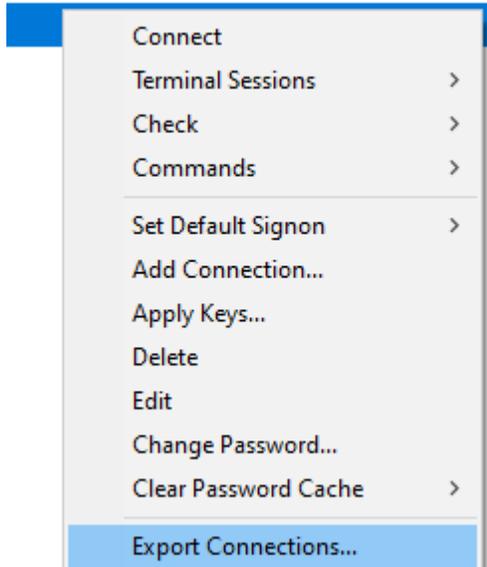


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1.17 How do I transfer my IBM i connections and other iDoctor preferences to a new computer?

1.17.1 For IBM i Connections:

- 1) Right-click anywhere within the list of IBM i connections and use the Export Connections menu.

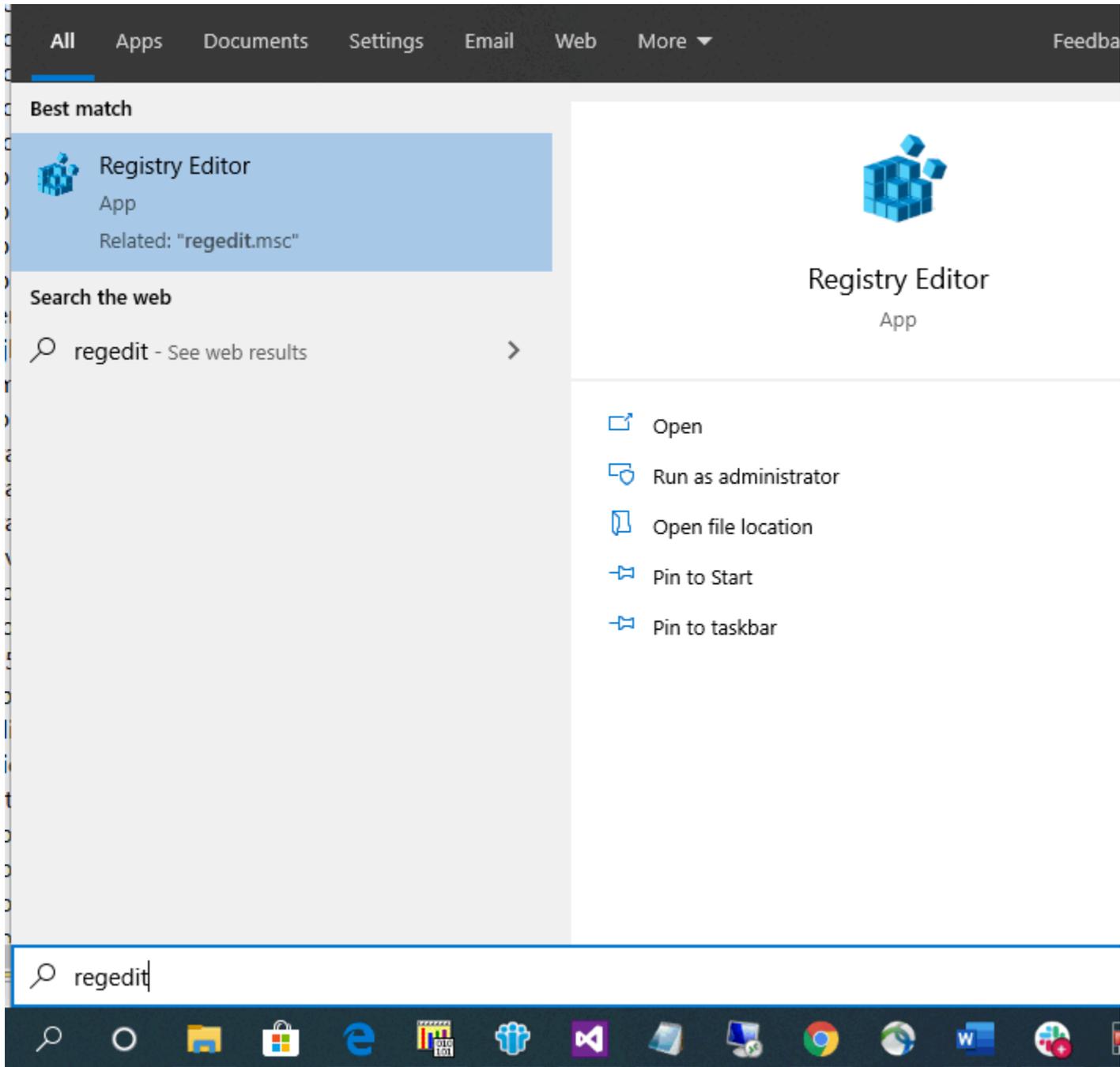


2) Specify a location for the export file and copy this to the new system. This is a .reg windows file and contains Windows registry entries.

3) On the new system, double-click the file after installing ACS with the windows-add on and your connections should appear.

1.17.2 For iDoctor GUI preferences:

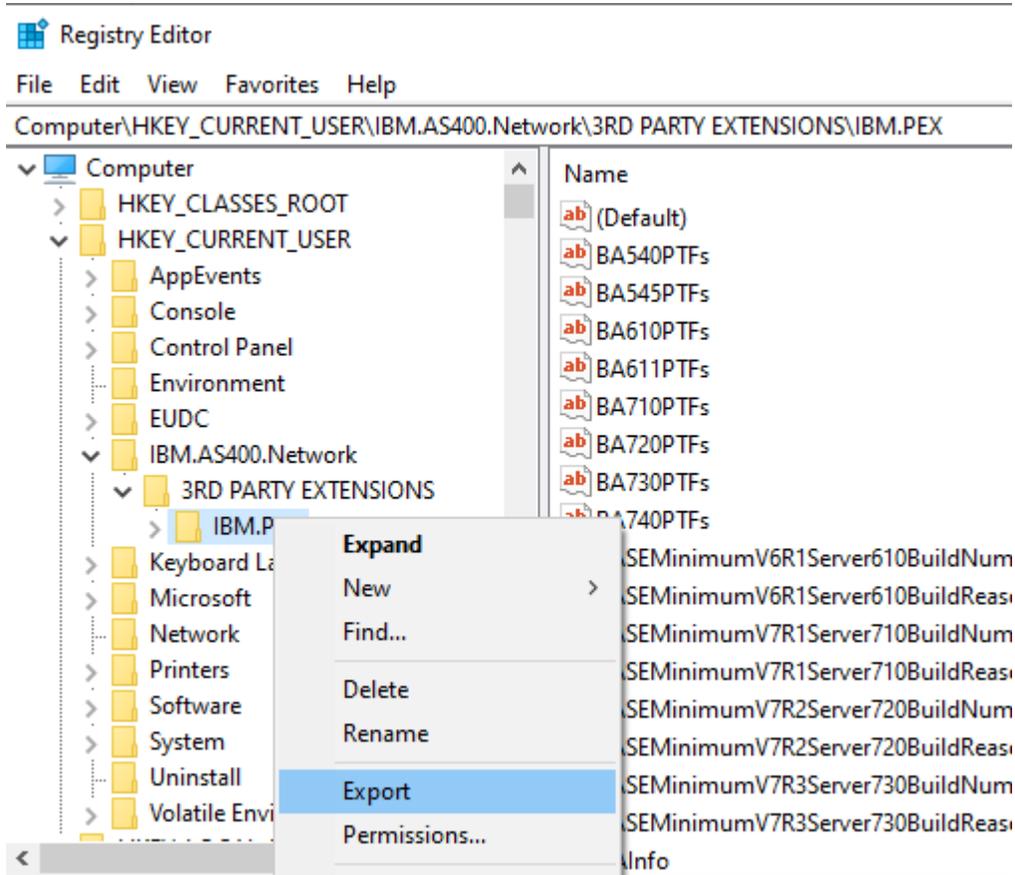
- 1) With build 1562 or higher you can use the Export GUI Preferences... menu found in the IBM I Connections View.
- 2) With older builds, since no built-in iDoctor option exists, you will need to run regedit



You need to have administrator level authority, say Yes if asked to run it.

2) Navigate to Computer\HKEY_CURRENT_USER\IBM.AS400.Network\3RD PARTY EXTENSIONS\IBM.PEX

3) Right-click that folder and click Export, specify a file name



Windows regedit export option for the root iDoctor preferences folder

4) Double-click the file you specified on the new system to restore your desired preferences.

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1.18 Where do I find information about system tasks?

Details about some of the key system tasks are IBM i can be found here:

<https://www.ibm.com/support/pages/ibm-i-system-tasks-and-their-functions>

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1.19 The collection status column indicates files are missing. Should I be concerned?

This depends on the message shown. If the message contains “**ERROR - CRITICAL FILES MISSING:**”, then Yes, this means that the data/files listed cannot be located or contain no records and most normal analysis options won’t work.

If the message contains “**Ready - Missing:**”, then this is probably normal and not cause for concern. For example, in Collection Services Investigator it is very common for some files to be missing such as QAPMLPARH or QAPMXSTGD. This is just informing you that graphs requiring those files are not going to be available. You can find out more on this by placing your mouse over the status column.

Collection	Using Collection Summary	Status	Description	DB files VRM	Partition collected on VRM	Partition collected on	Interval duration (minutes)	Total collection time
SQL tables								
Job Summary								
Q175102853	Yes	Ready - Missing: DISK (FSM), LPARH, SYSPRC	qq32aa	7.2	7.2	IDOC720	5	00-01.40.00.0

1 or more files are missing or empty and graphs and reports related to those file(s) will either not be available or won't work.
QAPMDISK - Disk -> free space map columns missing
QAPMLPARH - System -> multiple LPARs
QAPMSYSPRC - System -> CPU related graphs

With some older builds such as 1508 and earlier you can try right clicking the library and use the “Clear Server Cache” menu option to resolve this. This just makes sure the data is truly missing and is not because of incorrect or stale data in the collection’s cache.

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1.20 Is iDoctor affected by log4j 1.X security vulnerability?

No, but iDoctor requires IBM i Access Client Solutions (ACS) which is affected with version 1.1.8.6 and earlier. Update to the latest version of ACS to resolve this issue.

More information on this is available here: <https://www.ibm.com/support/pages/security-bulletin-ibm-i-components-are-affected-cve-2021-4104-log4j-version-1-x>

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1.21 How do I resolve the following ODBC, iDocJW.mdb file error when trying to look at data?

File location is C:\PROGRAM FILES (X86)\IBM\IDOCTOR\iDocJW.mdb for data source local_idoctor_jw [Microsoft][ODBC Microsoft Access Driver] 1 Parameter wurden erwartet, aber es wurden zu wenig Parameter übergeben.

State: 07002

RC: -3010

Errors like this sometimes happen after reinstalling iDoctor under C:\Program Files (x86)\IBM\iDoctor on Windows 10, and replacing a previous version and some of the original MDB files were not properly replaced and still remain.

The easiest resolution for this problem is to reinstall in another location such as under C:\iDoctor or reinstall again being sure that iDoctor.exe is not already running by checking the Windows Task manager.

Contact idoctor@us.ibm.com for more information.

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1.22 How do I configure a secure SSL connection to the IBM i?

This requires setting up a certificate and certificate authority on the IBM i using the DCM (Digital Certificate Manager tool). The certificate must be downloaded to the PC using the ACS tool called cwbcssl.

1. Access DCM via this link:

<http://<yoursystem>:2001/QIBM/ICSS/Cert/Admin/qycucm1.ndm/main0>

2. Follow these steps to create a CA if haven't already done and assign it to all the applications/host servers.

<https://www.ibm.com/support/pages/node/637503>

3. Download the certificate to the PC via the cwbcssl tool. Use password ca400 when prompted.

<https://www.ibm.com/support/pages/how-make-ssl-connection-ibm-i-acs-windows-application-package>

4. On the IBM i (of course be careful about this)

ENDHOSTSVR *ALL

STRHOSTSVR *ALL

5. Check the box within iDoctor's edit connection to enable SSL

Edit IBM i Connection [X]

Provide below the system name or IP address as well as the type of connection. The description parameter is optional.

OK
Cancel

 System:

System alias (optional):

Default user mode: MCCARGAR

Description:

Port lookup mode:

Auxillary storage pool group:

Relational DB name (optional):

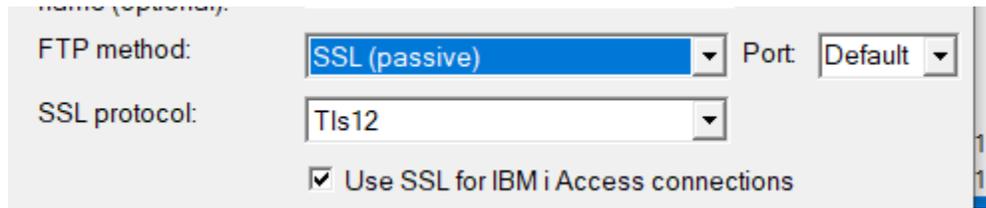
FTP method: Port:

Use SSL for IBM i Access connections

ET (unsecure) YES

6. Afterwards, secure ODBC and remote command/program call connections to the IBM i should occur.

Note: These steps do not apply to iDoctor's FTP connections. For secure FTP connections you should use FTP method SSL (passive) and Tls12 like this:



The screenshot shows a configuration window with the following settings:

- FTP method: SSL (passive)
- Port: Default
- SSL protocol: Tls12
- Use SSL for IBM i Access connections

If you require assistance with this or have additional questions regarding DCM or ACS SSL configuration, we recommend contacting the ACS support team. iDoctor support cannot resolve ACS error 25414 for you. You will need to contact ACS support.

More information on setting up the certificates correctly is here:

<https://www.ibm.com/support/pages/node/6350999>

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1.23 Will iDoctor impact my system's performance?

This depends on what the user intends to do with iDoctor and how healthy the system is.

With the required PTFs applied, data harvesting is non-intrusive and light weight for JW/CS; PEX can be very heavy weight and we have seen it cause major performance issues; the user really needs to be careful and know what they are doing before collecting PEX.

The analysis of the data is also rather light weight, but it does execute SQL queries so if you plan to do heavy analysis on a production system (that is under-sized or experiencing poor performance) then certainly running more queries is going to cause some load on the system. **Tip:** The data can be transferred to another system to do analysis there instead.

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2 Installation Questions

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2.1 What are the GUI installation requirements?

The following are required to run the iDoctor GUI:

- A) Windows** (Note: some users run iDoctor via Citrix/Linux KVM, Mac OS with Parallels or Remote Desktop)

The GUI is supported on Windows 10 (or higher). It also runs on Windows 7 and Windows Server but is not regularly tested on those Windows operating systems and therefore not officially supported.

Note: The user profile doing the installation must have administrator-level authority. Administrative level authority is not required to use iDoctor however once it is installed.

- B) If you wish to connect to IBM i systems, then the following must be installed:**

[IBM i Access Client Solutions](#) (ACS) base package and **ACS Windows Application Package** must **BOTH** be installed. On the ACS download page be sure to download and install both and get the ACS Windows App Pkg English (64bit.). More information about how to obtain ACS can be found here: <https://www.ibm.com/support/pages/node/683479>

ACS Windows App Pkg English (64bit)	IBMiAccess_v1r1_Windows AP_English.zip	53795601 B	Download 
-------------------------------------	--	------------	--

Note: After downloading the IBMiAccess*.zip, unzip and expand \image64a folder and run setup.exe.

Name	Date modified	Type	Size
1046.mst	5/18/2021 2:39 PM	MST File	124 KB
1049.mst	5/18/2021 2:39 PM	MST File	204 KB
1053.mst	5/18/2021 2:39 PM	MST File	84 KB
1055.mst	5/18/2021 2:39 PM	MST File	128 KB
2052.mst	5/18/2021 2:39 PM	MST File	132 KB
2070.mst	5/18/2021 2:39 PM	MST File	124 KB
acslangs	5/18/2021 2:39 PM	WinZip File	1 KB
admhost	5/18/2021 2:27 PM	File	2 KB
afp64a	5/18/2021 2:39 PM	WinZip File	666 KB
amri2924	5/18/2021 2:39 PM	WinZip File	5,285 KB
cwbininstall	5/18/2021 2:39 PM	Windows Installer ...	13,550 KB
dotnet	5/18/2021 2:39 PM	WinZip File	169 KB
drvid	5/18/2021 2:28 PM	Configuration sett...	1 KB
dt64a	5/18/2021 2:39 PM	WinZip File	509 KB
hld	5/18/2021 2:39 PM	WinZip File	317 KB
odbc	5/18/2021 2:39 PM	WinZip File	286 KB
odbc64a	5/18/2021 2:39 PM	WinZip File	270 KB
ole64a	5/18/2021 2:39 PM	WinZip File	357 KB
oledb	5/18/2021 2:39 PM	WinZip File	516 KB
only2924.mst	8/3/2020 2:35 PM	MST File	20 KB
req	5/18/2021 2:39 PM	WinZip File	3,943 KB
req64a	5/18/2021 2:39 PM	WinZip File	1,235 KB
service.lvl	5/4/2021 12:25 PM	LVL File	1 KB
setup	5/18/2021 2:39 PM	Application	554 KB
setup	5/18/2021 2:40 PM	Configuration sett...	4 KB
ssl	5/18/2021 2:39 PM	WinZip File	8,070 KB
ssl64a	5/18/2021 2:39 PM	WinZip File	9,090 KB

For installation instructions see this [video](#).

C) For GUI builds older than 1655 (1654 or earlier):

[Microsoft Visual C++ 2012 Redistributable Package](#) (install both the x86 and x64 options)

For GUI builds at 1655 or higher:

[Microsoft Visual C++ 2022 Redistributable Package](#) (install both the x86 and x64 options)

D) [Microsoft .NET 4.5](#) (required if using Transfer methods other than the default - WININET)

E) [Java 1.5](#) or higher

Note: Some virus scanners or even Windows itself may prevent the opening of our downloads. In some cases, you may get errors and need to temporarily disable these to open the download image.

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2.2 What are the IBM i installation requirements?

The following are required on the IBM i:

- IBM i 7.1 or higher (older releases are available but not supported or updated) See section 1.6 for more information.
- The required PTFs listed at <http://public.dhe.ibm.com/services/us/igsc/idoctor/html/ptfs.html> for the applicable IBM i release should be loaded and applied before collecting data.
- The user profile performing the installation must have *SECOFR user class and special authorities *ALLOBJ and *SECADM.
- The following host servers (identified by the SERVER parameter values on the STRHOSTSVR command) need to be running on the server: *DATABASE, *RMTCMD, *SIGNON, *SRVMAP
- System value QALWOBJRST must be *ALL or (*ALWSYSSTT and *ALWPGMADP) during installation.
- **Note:** If English is not installed as the primary language, the user profiles used to connect to the server with should set their CCSID parameter value to 37 for best results.
- Nmon requires OpenSSH option 1 (5733SC1) for the VIOS to IBM i disk mapping function.
- Library QSYSINC must be installed (<https://www.ibm.com/support/pages/not-able-find-library-gsysinc>)

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2.3 How do I install iDoctor?

See the [documentation \(section 2.4\)](#) and/or watch this [video](#).

Tip: Click the link below for additional information about options for obtaining QMGTOOLS.
<http://www-01.ibm.com/support/docview.wss?uid=nas8N1011297>

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2.4 After installation the iDoctor properties or data area QIDRVRM shows a different build date than what was listed in the GUI install program. Is this a problem?

No. The server build date listed in the installer is the date the save file was added to the FTP site. The contents of the save file may be older.

If desired, the .txt files on our FTP site contains the true build date for each similarly named save files (.savf.)

<http://public.dhe.ibm.com/services/us/igsc/idoctor/web/>

For example, file BA_V7R2.txt contains the true build date for BA_V7R2.savf which is the V7R2 QIDRGUI library (listed as base support in the iDoctor installation.)

← → ↻ ⓘ Not secure | public.dhe.ibm.com/services/us/igsc/idoctor/web/

Apps rochester-pool-sch... Window Z-order Pr...

Index of /services/us/igsc/idoctor/web

Name	Last modified	Size	Description
 Parent Directory		-	
 BAV5R4.savf	29-May-2014 10:40	2.2M	
 BAV5R4.txt	29-May-2014 10:40	11	
 BAV6R1.savf	17-Jan-2019 12:40	8.0M	
 BAV6R1.txt	17-Jan-2019 12:40	11	
 BAV7R1.savf	17-Jan-2019 12:40	13M	
 BAV7R1.txt	17-Jan-2019 12:40	11	
 BAV7R2.savf	17-Oct-2019 12:41	15M	
 BAV7R2.txt	17-Oct-2019 12:41	11	
 BAV7R3.savf	17-Oct-2019 12:41	14M	
 BAV7R3.txt	17-Oct-2019 12:41	11	
 BAV7R4.savf	17-Oct-2019 12:41	14M	
 BAV7R4.txt	17-Oct-2019 12:41	11	

iDoctor FTP site listing

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2.5 I need to save a copy of the install save files to my PC so I can install it later. How do I do that?

Download the Full iDoctor Installation image which includes all the SAVFs. On the 1st screen of the installation, use the "Download image" option in order to use these SAVFs. Otherwise, the installer will attempt to download the latest from the FTP site which may not be what you want it to do (if FTP access is unavailable/etc.)

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2.6 My installation failed. What should I do?

First check the logfile from the install program. This is viewable using the Display setup log button within the install program after selecting the desired entry in the list. Common problems are: host servers not started on the server, QALWOBJRST system value is not set to *ALL or FTP server is not started or not configured properly.

Other issues that can occur are authority issues (lack of), or exit programs may be installed that are blocking or preventing ODBC or FTP processes from running correctly.

If you cannot determine the cause and resolution to the problem, please send the logfile (and job log) to idoctor@us.ibm.com with a short description of the problem. The logfiles are retrievable from the C:\program files (x86)\ibm\idoctor\setuplogs directory on 64-bit Windows (or the C:\program files\ibm\idoctor directory on 32-bit Windows) after the installation has been closed. The job logs can be retrieved using the Display job log button after selecting the desired failed entry.

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2.7 What ports on the IBM i are needed for GUI Access?

iDoctor port requirements are mostly the same as used by IBM i Access. However, some port requirements will vary in practice based on the iDoctor GUI features used, but it is easiest to simply refer to this page.

<https://www.ibm.com/support/pages/tcpip-ports-required-ibm-i-access-and-related-functions>

In addition to the ports described in that document, some optional functions in the GUI utilize SSH. If those functions are used, then SSH ports are needed as well. This is usually port 22.

If you are using IBM i cloud, then configuring an SSH tunnel using IBM i Access client solutions and additional ports will also be required. Refer to the following support document for more details:

<https://www.ibm.com/support/pages/ssh-tunnel-configuration-use-ibm-i-access-client-solutions>

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2.8 I'm trying to install iDoctor on my IBM i but I'm getting an FTP error?

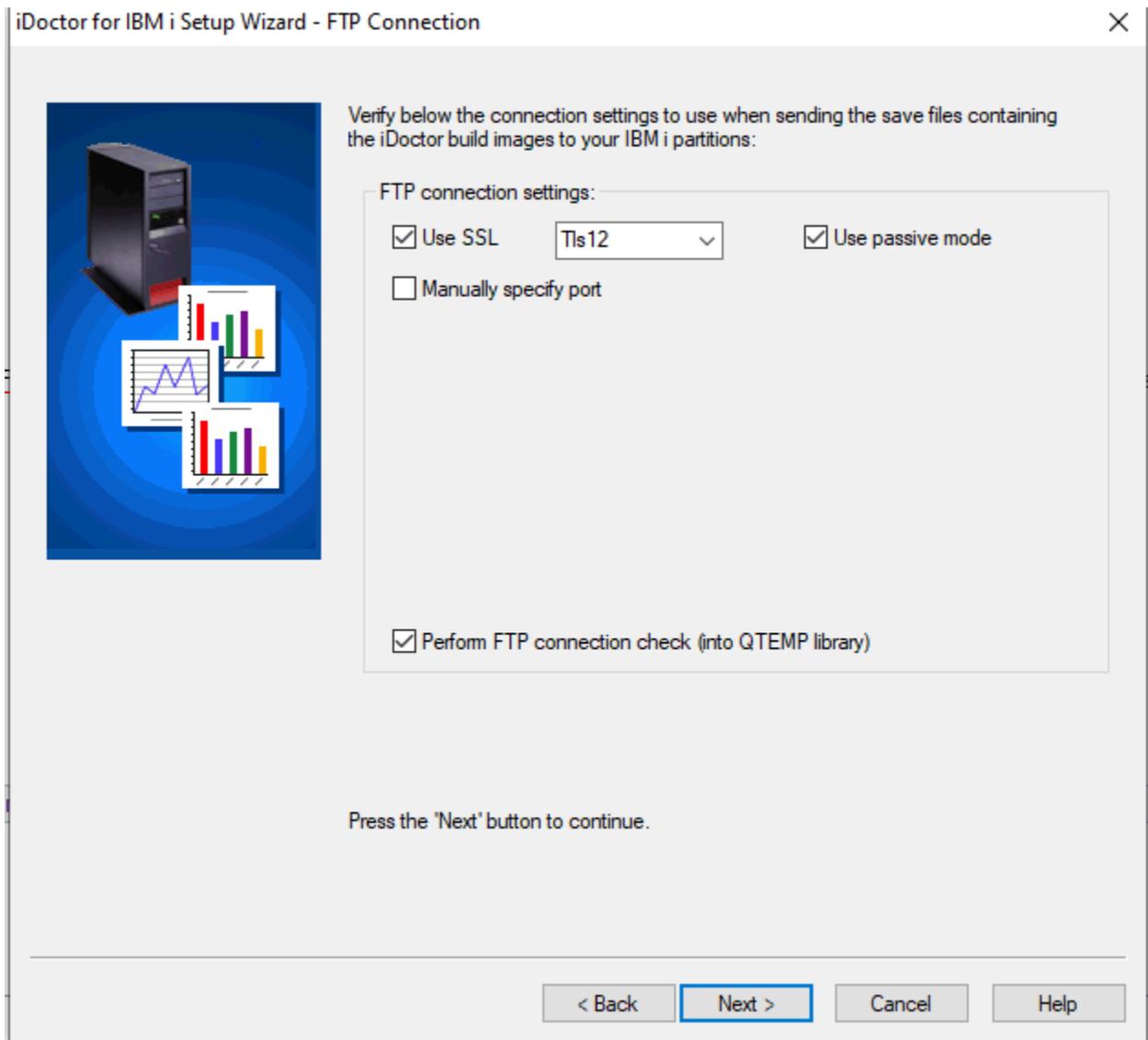
Installing the server builds on an IBM i with the GUI install program does require the system has been configured to enable either SSL based FTP (port 990) or unsecure FTP (port 21.) SSH based file transfer options are also available with recent builds.

If an error is encountered, then the solution really depends on how the system is configured for FTP. There are options to use secure FTP: and possibly you only need to change how the connections are made within the installer.

Download here: (the last option is best if the network environment has FTP restrictions since this avoids issues when downloading the SAVFs at install time)

<http://public.dhe.ibm.com/services/us/igsc/idoctor/html/downloadOptions.html>

Then run it and when you get to this screen try the options to Use SSL with Tls12 and passive mode are recommended but will only work if this has been enabled on the IBM i.



2 SSH file transfer options are also available (either using Putty or Windows). However, SSH password-less authentication requires that the system has been setup correctly to allow this to work (not covered here.)

If you can't send the save files with our installer then you will need to somehow get the SAVFs transferred to the IBM i (copy from the download image or from our website) and then use the manual install steps are listed in the documentation on our website:

<http://public.dhe.ibm.com/services/us/igsc/idoctor/html/documentation.html> (section 2.5 – Manual install steps)

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2.9 I want to install an older version of the server builds to go with client C0nnnn. Where can I find that?

On our website you can find a listing of several copies of client + server builds images that can be downloaded from the past. They have a naming convention of iDocInstallFullC0nnnn.exe.

<https://public.dhe.ibm.com/services/us/igsc/idoctor/>

	aboutiDoctor.html	13-S
	html/	02-M
	iDocInstall.exe	27-D
	iDocInstallFull.exe	28-F
	iDocInstallFull1267.exe	29-M
	iDocInstallFullC01129.exe	30-J
	iDocInstallFullC01355.exe	30-M
	iDocInstallFullC01358.exe	21-J
	iDocInstallFullC01359.exe	27-J
	iDocInstallFullC01360.exe	28-J
	iDocInstallFullC01363.exe	18-J
	iDocInstallFullC01368.exe	15-A
	iDocInstallFullC01379.exe	23-C
	iDocInstallFullC01381.exe	07-N
	iDocInstallFullC01384.exe	06-D
	iDocInstallFullC01386.exe	19-D
	iDocInstallFullC01387.exe	--

If the client build number you want to use is not listed above, then it would be recommended to use the most recent older version to install server builds only, and then if necessary, install the newer client only update.

Client updates are also listed in the same directory above and have a naming convention of iDoctorClientC0nnnn.exe.

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2.10 Where can I find the downloads for 7.1 and 7.2?

We aren't regularly updating the server builds for these releases.

For these releases you can download the last updates here:

<https://public.dhe.ibm.com/services/us/igsc/idoctor/html/downloadsOld.html>

Optionally, and if desired after updating the server-side you can get on the latest client. This requires that the user profile running the GUI have full rights to the QIDR* libraries like QIDRGUI. This is because it will load several stored procedures that are outdated to the latest versions.

If you lack ability to change objects in QIDRGUI then it won't work and you will have to stay on the older client from 2019.

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2.11 How do I install iDoctor on the server without using the GUI installer?

The manual install steps are listed in the documentation in section 2.5. The steps used vary a bit depending on the release of the IBM I.

For 7.1 only use the instructions in this file (section 2.5):

<https://public.dhe.ibm.com/services/us/igsc/idoctor/iDoctorV73.pdf>

For 7.2 and higher use these steps (section 2.4):

file:///C:/iDoctor/Documentation/Documentation/iDoctor_Overview.pdf

The SAVFs used in the installation, can be downloaded from our website at:

<https://public.dhe.ibm.com/services/us/igsc/idoctor/web/>

or see the documentation for other options:

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2.12 Does installation require an IPL?

No, but some required PTFs may require an IPL. The performance PTFs fix problems in the OS and not with iDoctor so are generally required if you wish to collect performance data regardless on if iDoctor is installed or not.

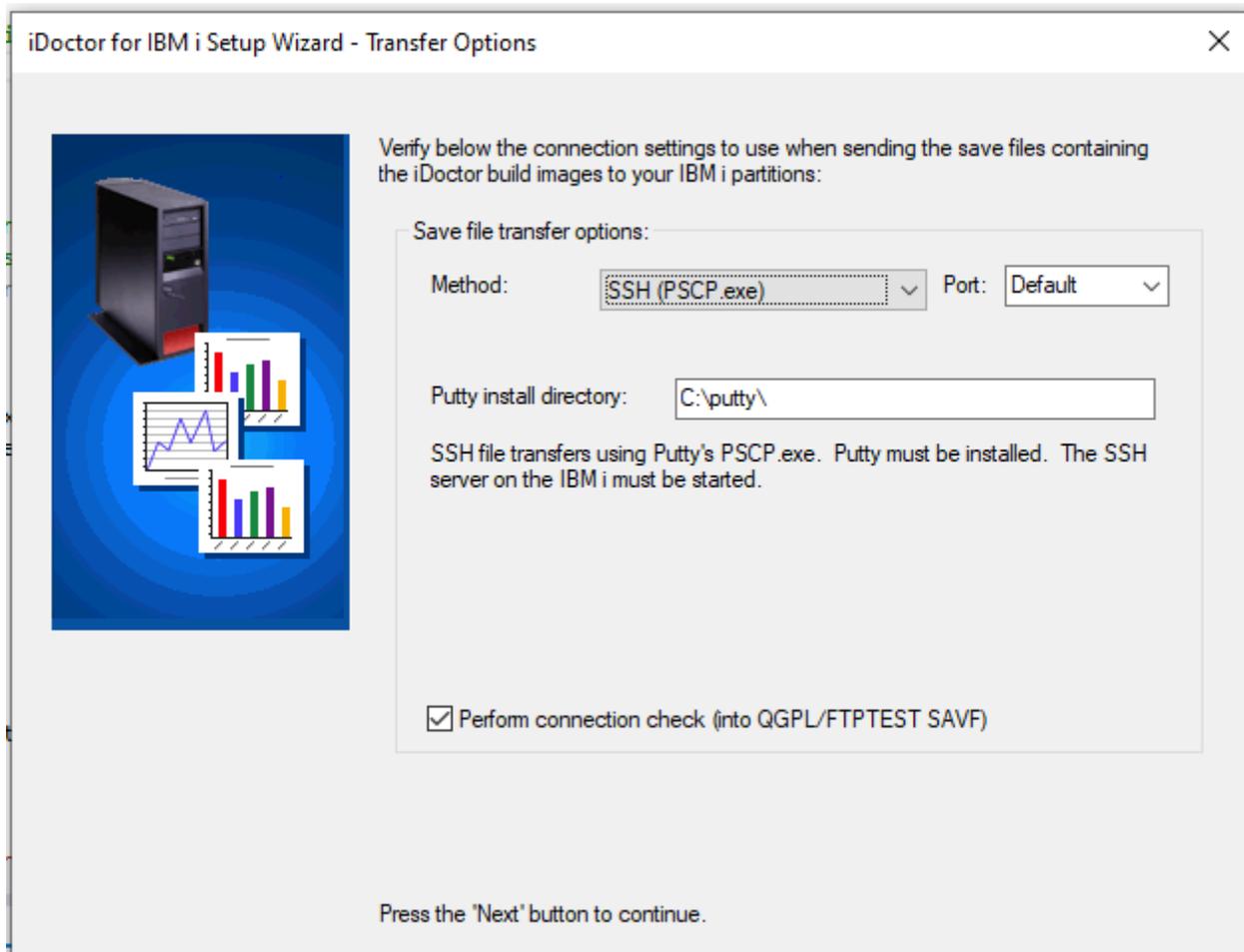
<https://public.dhe.ibm.com/services/us/igsc/idoctor/html/ptfs.html>

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2.13 How do I install iDoctor if I can't use FTP?

If you are not allowed to use FTP to do the installation, there are 3 choices with latest builds client 1583 or higher (January 2023):

1. The iDoctor Setup Wizard – Transfer Options panel includes a save file transfer method of SSH (PSCP.exe).

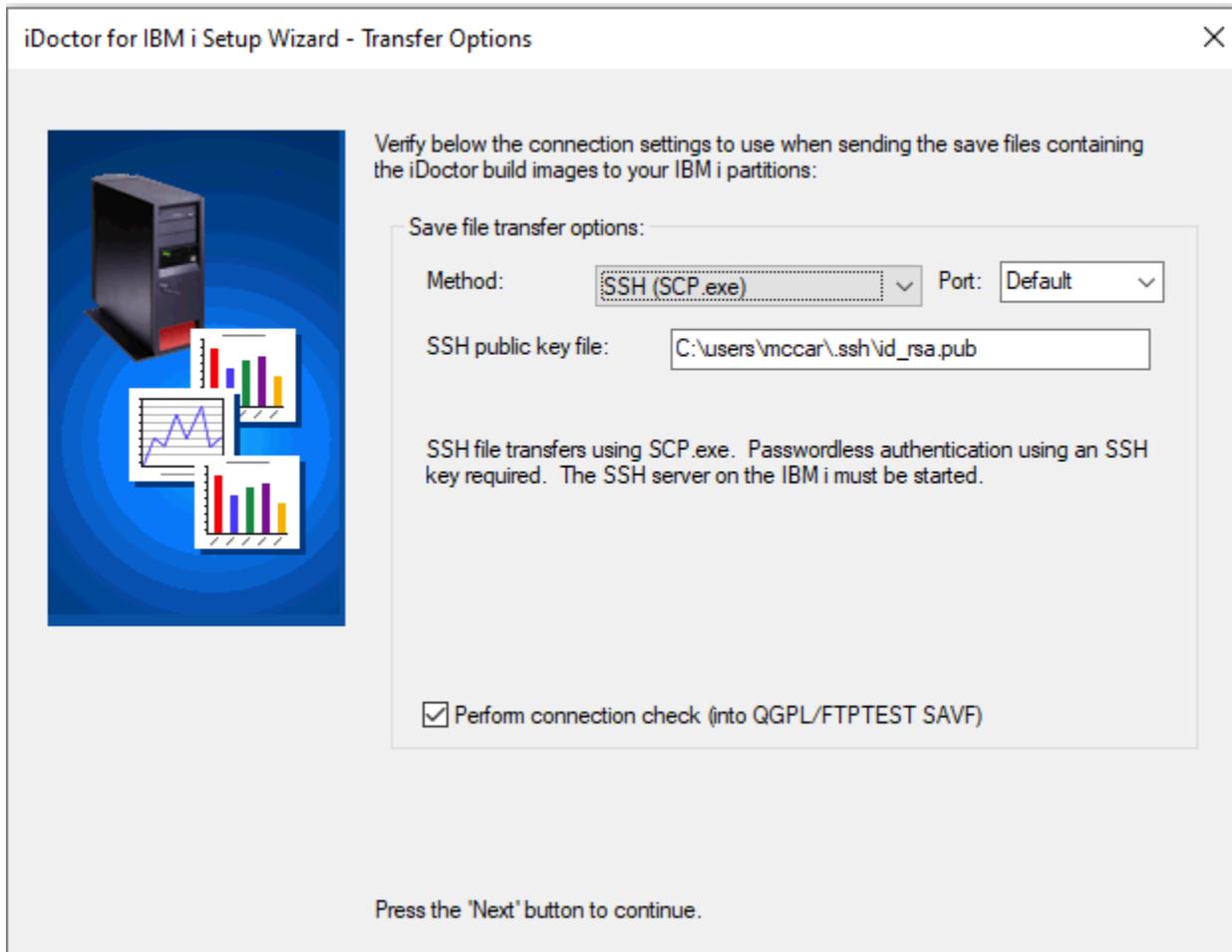


This option requires that a 3rd-party tool called Putty is installed in the directory specified. You can download putty here:

<https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html>

Note: The SSH server must be started. You can use the iDoctor GUI's IBM i Connections Popup menu option Terminal Sessions -> Start SSH server menu to start it or run command **STRTCPSVR *SSHD**.

2. The iDoctor Setup Wizard – Transfer Options panel includes a save file transfer method of SSH (SCP.exe).



This method uses the Windows `scp.exe` command. If SSH (OpenSSH) has not been installed on the PC then this option won't work. It also requires key-based rather than password-based authentication has been setup on every LPAR you wish to install iDoctor on. If this has not been done you will be prompted to enter a password everytime a file is transferred during installation. While technically possible to install this way it will be a more painful process.

The latest iDoctor GUI build 1583 or higher includes a menu option on the IBM i Connections View called **Enable SSH key-based authentication**. This will use `ssh-keygen.exe` (on the PC) to create a public key file for you then transfer this key to the IBM i in the `/home/<user>/.ssh/authorized_keys` file which is required to allow passwordless authentication. When choosing this method you will want to install the client first, use this menu option, then install the server.

An example of the steps done when using **Enable SSH key-based authentication** are copied below where 'mccargar' is the user on both the PC and the IBM i:

On the PC:

```
ssh-keygen -t rsa -f "C:\Users\mccargar\.ssh\id_rsa.pub" -q -N ""
```

On the IBM i:

```
ADDENVVAR ENVVAR(QIBM_QSH_CMD_OUTPUT) VALUE('NONE') REPLACE(*YES)
QSH CMD('mkdir /home/mccargar/')
QSH CMD('mkdir /home/mccargar/.ssh/')
QSH CMD('chown mccargar /home/mccargar/')
QSH CMD('chmod 755 /home/mccargar/')
QSH CMD('chown mccargar /home/mccargar/.ssh/')
QSH CMD('chmod 700 /home/mccargar/.ssh/')
```

```
QSH CMD('rm /home/mccargar/.ssh/authorized_keys; touch -C 819
/home/mccargar/.ssh/authorized_keys')
```

```
ADDENVVAR ENVVAR(LINE) VALUE('contents of id_rsa.pub file on the PC goes here')
REPLACE(*YES)
```

```
QSH CMD('echo "$LINE">> /home/mccargar/.ssh/authorized_keys')
QSH CMD('chown mccargar /home/mccargar/.ssh/authorized_keys')
QSH CMD('chmod 600 /home/mccargar/.ssh/authorized_keys')
RMVENVVAR ENVVAR(LINE)
RMVENVVAR ENVVAR(QIBM_QSH_CMD_OUTPUT)
```

Note: The SSH server must be started. You can use the iDoctor GUI's IBM i Connections Popup menu option Terminal Sessions -> Start SSH server menu to start it or run command **STRTCPSVR *SSHD**.

If you prefer to do this configuration manually you can read more about required steps here: <https://www.ibm.com/support/pages/configuring-ibm-i-sshd-server-use-public-key-authentication>

3. If you don't wish to use SSH the only other method is to install iDoctor manually using the Manual install steps in our documentation here: https://public.dhe.ibm.com/services/us/igsc/idoctor/iDoctor_Overview.pdf

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2.14 What steps should I take when moving to a new release of IBM i?

The iDoctor server build VRM must match the OS VRM. Also, performance data from multiple releases should not exist in the same library. Attempting to combine data from multiple releases in the same library will cause problems.

You can check the VRM of the server builds installed by doing these commands:

```
DSPDTAARA DTAARA(QIDRGUI/QIDRVRM)
DSPDTAARA DTAARA(QIDRWCH/QIDRVRM)
DSPDTAARA DTAARA(QIDRPA/QIDRVRM)
```

Generally, you would update the OS first, then update the iDoctor server builds and any other needed changes based on the type of data being collected afterwards.

Here are some general steps you could follow to do this:

1. Download the latest version including the iDoctor server save file images here: <https://public.dhe.ibm.com/services/us/igsc/idoctor/iDocInstallFull.exe>
2. End the subsystem being used for iDoctor (i.e. ENDSBS QIDRJW). The subsystem is typically QIDRJW, but it's possible this was changed from the default value. To determine the subsystem and job queue used by iDoctor functions then run this command:
DSPDTAARA DTAARA(QIDRGUI/QIDRJOBQ)
3. Temporarily change system value QALWOBJRST to *ALL.
4. Follow the instructions in chapter 2 to install iDoctor but **be sure to keep the "Clear iDoctor libraries" checkbox checked**, or you will have problems if any job has a lock on any iDoctor

library such as QIDRGUI, QIDRWCH or QIDRPA.

https://public.dhe.ibm.com/services/us/igsc/idoctor/iDoctor_Overview.pdf

5. Install the required PTFs before collecting any data applicable to the release you are installing:
<https://public.dhe.ibm.com/services/us/igsc/idoctor/html/ptfs.html> This may require an IPL.
6. End Collection Services via
 - A. GO PERFORM > OPT.2 > OPT.3 to End
 - B. or from CSI GUI -> Right-click Collection Services Investigator -> End Collection Services
7. If you wish to keep your old Collection Services or Job Watcher data, then copy it to a new library. If you don't, then clear the libraries that data resides in. See also:
<https://www.ibm.com/support/pages/working-prior-release-collection-services-data-after-upgrade>
8. Start Collection Services
 - A. GO PERFORM > OPT.2 > OPT.1 to Start
 - B. or from CSI GUI -> Right-click Collection Services Investigator -> Start Collection Services
9. Start Job Watcher (optional)
 - A. From JW GUI -> Right click Job Watcher > Start Monitor
 - B. Or from server -> QIDRWCH/STRJWMON command as desired. Note: Some customers add this desired command to their IPL startup program.
10. **Note:** Access codes will work regardless of the IBM i release installed (unless the release is V5R4 or older, the system serial number has changed, or they have expired). You can reapply access codes using the QIDRGUI/ADDPRDACS command.

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3 Licensing Questions

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3.1 I downloaded the software, but I'm getting an error saying I am not authorized to use it?

You need an access code to activate the component on your system. In order to receive one, fill out the 45-day trial registration form on the web site and specify your system serial number and OS Version/Release/Mod Level of the system you plan to install the software on. You will receive your access codes via e-mail generally within 1-business day of your request. Once you have received your access code(s), you can apply it to your system during the installation process or afterward when the GUI client asks for it.

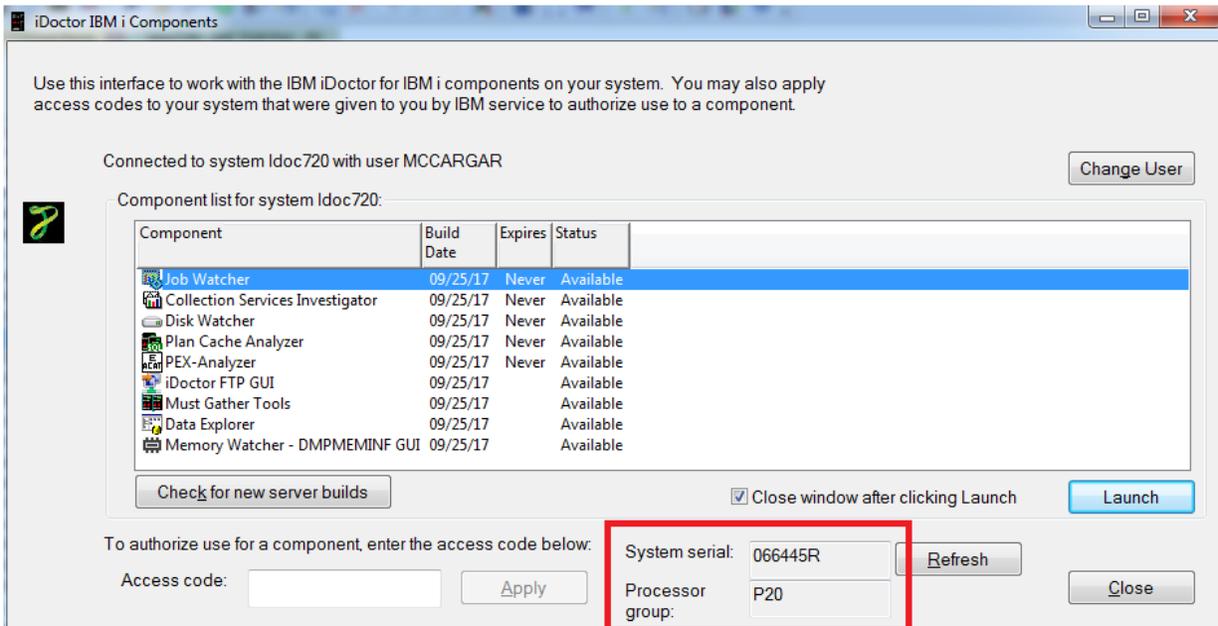
If you have already done this, make sure the system serial number and OS release specified in the request is correct. Also ensure that the correct (matching) OS version of iDoctor has been installed on the server. Data area QIDRVRM in library QIDRGUI can be examined to determine this.

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3.2 How do I determine the serial number and or processor group for my IBM i system?

Enter the command DSPSYSVAL SYSVAL(QSRLNBR) and your system serial number will be displayed. Use the WRKLCINF command to display your processor group (2nd line of text in the results.)

Note: This information is also displayed in the GUI when you connect to your system on the iDoctor IBM i components window.



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3.3 How long does my free trial period last?

The trial period is 45-days. However, if for some reason you need more time to evaluate the software, send an e-mail stating the reason for the extension to idoctor@us.ibm.com and we will certainly consider it.

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3.4 What do I get if I purchase a PEX Analyzer license?

More information on this can be found here:

<http://public.dhe.ibm.com/services/us/igsc/idoctor/html/pa.html>

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3.5 What do I get if I purchase a Job Watcher license?

More information on this can be found here:

<http://public.dhe.ibm.com/services/us/igsc/idoctor/html/JW.html>

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3.6 I have a large system with multiple LPAR partitions. Do I have to purchase a copy of the software for each of these partitions?

No. The iDoctor components are licensed by system serial number and OS release. You purchase the service for each system serial number and you are then entitled to receive a copy of the software for each supported OS release you are running on that box.

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3.7 Are special discounts available for IBM Business Partners?

Yes. If you are an IBM Business Partner, e-mail idoctor@us.ibm.com or request a price quote and indicate you are a BP on the form to receive more information.

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3.8 What is the difference between Job Watcher using iDoctor vs the Performance Tools (PDI, PT1 – JW option)?

The iDoctor tools are developed by support (and sold by Lab Services). iDoctor is licensed by serial number on an annual basis.

There are two licenses, one for Job Watcher (which includes Collection Services Investigator, Plan Cache Analyzer and Disk Watcher) and another for PEX Analyzer. iDoctor is a thick client application that runs on Windows. iDoctor is very rich in function and is used widely by IBM i performance experts in support and lab services. The support is via email only (this address).

The PT1 Job Watcher tools are developed and serviced like "normal" IBM products. The analysis GUI (Performance Data Investigator -- PDI) is browser-based. PDI includes high-level health indicators and analysis of Collection Services data for free with IBM i. The charged options are needed for analysis of Job Watcher and PEX data.

The tools are similar in function but not equivalent. PDI has been adding features, but iDoctor has more detailed drill-down capability and other analysis features.

If you buy iDoctor -Job Watcher you don't need to buy the PT1 - JW option or PT1.

The Job Watcher data collector (STRJW) is included within IBM i and so if you just want to collect data and analyze yourself you don't need to buy either.

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4 Common Problems

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4.1 I downloaded the install image and when I try to run it I get the message 'This is not a valid Windows application'. Why?

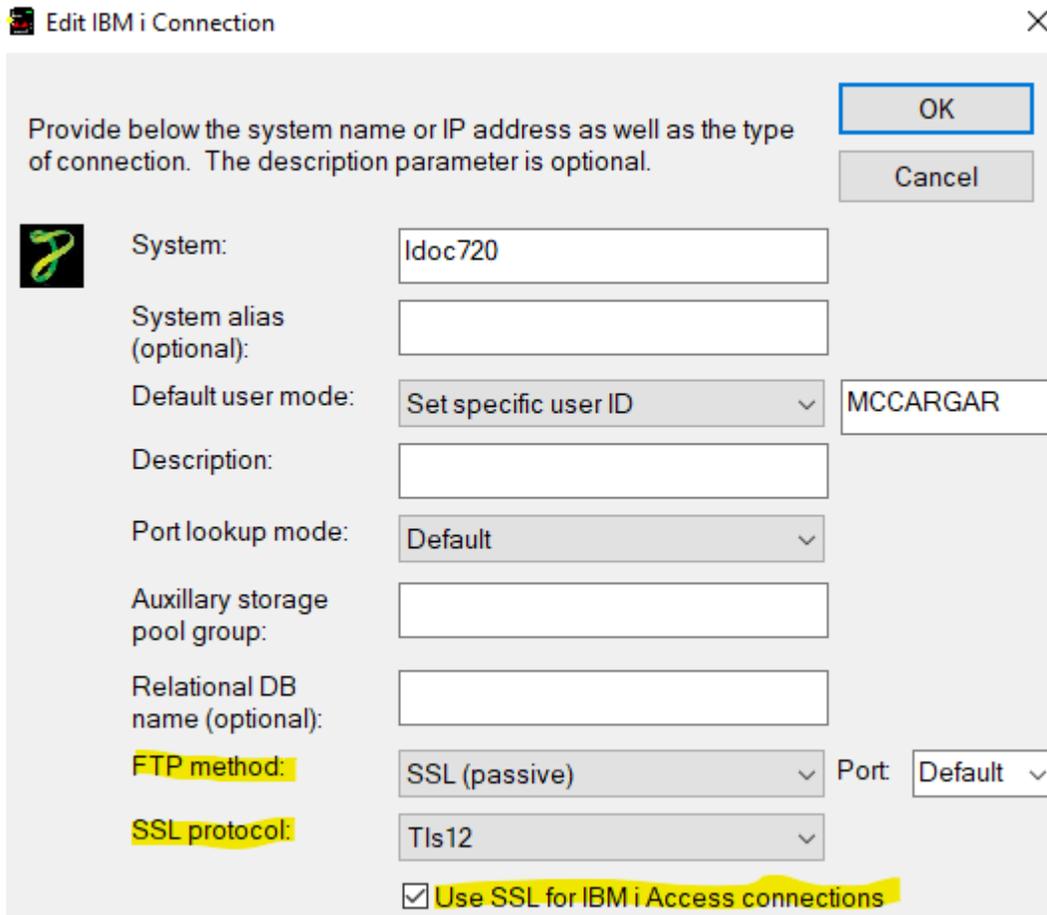
The install file was not downloaded completely. This may happen if you have a slow or unstable internet connection or the download was canceled before it could complete. Check the size of the file on the web page and compare it to the size of the file you have in order to verify the problem or attempt to download the file again.

If you continue to have difficulties contact idoctor@us.ibm.com and we will try to help.

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4.2 How do I make secure connections to the IBM i using iDoctor and ACS?

To make this happen you would need to ensure that both the IBM i side and the iDoctor (client) side of things are configured properly. Within iDoctor's IBM i Connection View by editing the connection you would need to enable FTP method, SSL protocol and Use SSL for IBM I Access connections options as shown below:

 Edit IBM i Connection ✕

Provide below the system name or IP address as well as the type of connection. The description parameter is optional.

OK **Cancel**

 System:

System alias (optional):

Default user mode:

Description:

Port lookup mode:

Auxillary storage pool group:

Relational DB name (optional):

FTP method: Port:

SSL protocol:

Use SSL for IBM i Access connections

Note: FTP is controlled via different processes than the Use SSL for IBM I Access connections option and you would only enable both if they are configured correctly on the IBM i.

More information on configuring ACS to enable SSL (secure) connections can be found here:
<https://www.ibm.com/support/pages/how-make-ssl-connection-ibm-i-acs-windows-application-package>

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4.3 Is there still a server version of iDoctor that works on V5R3, V5R4, V6R1, 7.1?

Yes, all the older IBM i release iDoctor builds are here:

<http://public.dhe.ibm.com/services/us/igsc/idoctor/html/downloadsOld.html>

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4.4 IBM i connections cannot be added because IBM i Access for Windows or IBM Access Client Solutions with the Windows add-on are not installed?

Connecting to an IBM i with iDoctor requires either:

- 1) IBM i Access for Windows (only works on Windows versions earlier than Windows 10)
- 2) IBM i Access Client Solutions (ACS) AND the ACS application package for windows. The ACS application package is typically not installed and is usually the reason for this error.

See the section on [GUI installation requirements](#) for more details.

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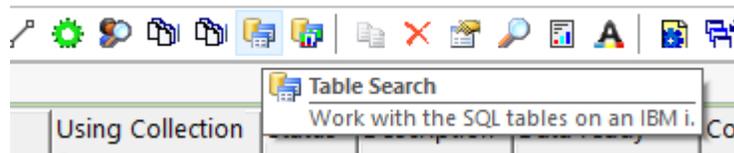
4.5 What are these QAIDRnnnnn files?

These are iDoctor created SQL tables. This is how the system names them since the table names are > 10 characters.

These files are created when you run an iDoctor analysis such the Collection summary analysis. Any DDMF QAIDR* objects are iDoctor aliases. If you have lots of aliases you might be on an older build as there should not be very many at all any more with recent builds as those all go in QTEMP now.

These files all go in the SQL tables folder. You can delete them by right-clicking the SQL tables folder and doing the delete option either the one under a single library or if you do it on the SQL tables under a component like Job Watcher, you can clear them off the entire system in one step if you want to.

You can also view or delete them with the table search function in the GUI.



Example of Table Search toolbar button

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4.6 How do I keep library filters separate between different components?

In the Libraries pane with latest builds (updated Sept 25th, 2024) they are separate for each system/component by default.

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4.7 Why do I have ODBC errors relating to missing objects after upgrading the client but not the server?

A user reported the following issue:

*I recently upgraded my client software, and now I'm facing an issue. The error is referencing QIDRJWR14 *PGM missing from QIDRGUI. Please advise.*

iDoctor relies heavily on SQL stored procedures for many functions and these exist in library QIDRGUI. Normally when installing the server these are loaded. In some cases when the client has been updated but not the server then these procedures need to be updated in the QIDRGUI library. The GUI will attempt to do this.

The default behavior for this is these SQL statements required to create the stored procedures are created in a text file and then FTP is used to send this file to the IFS where they are executed by the RUNSQLSTM command. If your iDoctor connection settings are not correct and the FTP process fails, then this won't happen, but instead the GUI will try to run the required SQL statements to create the stored procedures via a QZDASOINIT job.

If problems persist then take a screen shot of the remote sql statement status view/ and related job log (right-click on it, display job log) if necessary and report this to idoctor@us.ibm.com for assistance.

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4.8 What objects and IFS folders does a user need access to in order to use iDoctor?

For users that do not have full authorities on an IBM i they will require at a minimum the following:

1. The user profile must be added to function group QIBM_SERVICE_TRACE.
2. The user profile must be added to function group QIBM_SERVICE_JOB_WATCHER.
3. The user profile must be added to function group QIBM_SERVICE_DISK_WATCHER.
4. *ALL to library QIDRGUI.
5. *ALL to file QAPEXDFN in library QUSRSYS.
6. *ALL to file QAPYJWDFN in library QUSRSYS.
7. *ALL to file QAPYDWDFN in library QUSRSYS.
8. ***ALL to files QAIDR* in libraries QGPL and QUSRSYS. PLEASE NOTE: All files must exist (QUSRSYS/QAIDRCOLS, QUSRSYS/QAIDRLIBS, QUSRSYS/QAIDRJWM2, etc) which may require a full authority user, using all desired functions in the GUI you wish to let the other users use (such as the Monitors folder) prior to running the ADDIDRUSR command.**
9. *USE to commands ADDPEXDFN/RMVPEXDFN in library QSYS.
10. *USE to commands ADDPEXFTR/RMVPEXFTR in library QSYS.
11. *USE to commands ADDJWDFN/RMVJWDFN/STRJW in library QSYS.
12. *USE to commands ADDDWDFN/RMVDWDFN/STRDW in library QSYS.
13. *USE to commands SAVPFRCOL/STRPFRCOL/DLTPFRDTA in library QSYS.
14. *USE to CS API QYPSRSCA in library QSYS.
15. *OBJEXIST *OBJMGT *OBJOPR *OBJREF *READ *EXECUTE to QAYPE*, QAPY* and QAPM* files in QSYS.
16. *RWX to IFS path /QIBM/UserData/iDoctor and all subdirectories
17. *RWX to IFS path /QIBM/ProdData/iDoctor and all subdirectories.

Note: An administrator can grant these authorities by running the QIDRGUI/ADDIDRUSR command on your user profile.

File list relating to #8 above as of September 30th, 2024:

QGPL File	Description
QAIDRJBSD	Scheduled jobs. Under IBM I Explorer -> Work management -> Scheduled jobs folder. Created by scheduling something in the GUI.
QAIDRKEYS	Keeps track of access codes if using multiple LPARs and Live partition mobility functions. See IBM i connections view -> Apply keys menu to create this.

QUSRSYS File	Description
QAIDRCNC1	Collections repository –old version. Can be deleted if using latest builds.
QAIDRCNL1	Collections repository –old version. Can be deleted if using latest builds.
QAIDRCOLS	Collections repository – created by the installer (assuming install runs successfully) If not use CSI/JW root folder menu option -> Collections database -> Full rebuild

	menu option)
QAIDRCMGT	obsolete – can be deleted
QAIDRDBKT	PEX Analyzer – disk response times mapping. Use PEX – Rebuild disk response times mapping analysis option to create this. Used by PDIO analysis.
QAIDRDIRMN	IBM i Explorer -> Power -> Monitors file. Created by visiting that folder.
QAIDRDWM2	Disk Watcher monitors. Created by visiting the Monitors folder and creating a DW monitor or using QIDRWCH/STRDWMON.
QAIDRJWKB	Knowledge base stuff. Most probably aren't using this.
QAIDRJWM2	Job Watcher monitors. Created by visiting the Monitors folder and creating a JW monitor or using QIDRWCH/STRJWMON.
QAIDRJWRD	Job Watcher rule definitions. Created by creating a rule using the Add Job Watcher Definition Wizard.
QAIDRKBFLLD	Knowledge base stuff. Most probably aren't using this.
QAIDRKBJW	Knowledge base stuff. Most probably aren't using this.
QAIDRLIBS	Collections repository – created by the installer (assuming install runs successfully) If not use CSI/JW root folder menu option -> Collections database -> Full rebuild menu option)
QAIDRMSYS	Created by the Monitor Wizard when indicating on the 1 st page you want to create a monitor using multiple LPARs.
QAIDRPAM2	PEX Analyzer monitors. Created by visiting the Monitors folder and creating a PEX monitor or using QIDRWCH/STRPAMON.
QAIDRSF1	Keeps track of saved collection save files. For the IBM i Explorer -> Saved collections folder. Created by the Transfer Collection / Save Collection interface.
QAIDRUSERS	Knowledge base stuff. Most probably aren't using this.
QAIDRXDFN	FTP definitions. - Created when creating a Monitor using that option to send data to another LPAR.

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4.9 What is the process when upgrading iDoctor to a new IBM i release?

After upgrading the IBM i to a new release, the following actions should be taken:

1. Install latest server builds matching the IBM i release. These can be downloaded from here: <https://public.dhe.ibm.com/services/us/igsc/idoctor/html/downloadOptions.html>
2. Install PTFs listed on our website that match the IBM i release or if you can't at least read and accept any risks by not doing so.
 - Example for 7.3: <https://public.dhe.ibm.com/services/us/igsc/idoctor/html/downloadsV7R3.html>
3. Do not try to collect new performance data in a library that contains previous release data. Rename this library or use a new library instead. You will have lots of problems if you don't do this.
4. Do NOT use the CVTFRCOL command on performance data you wish to analyze with iDoctor. Doing so will cause problems.

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4.10 How do I grant a user without *ALLOBJ authority access to analyze not yet created Collection Services data in QPFRDATA?

If Collection Services data is being captured in library QPFRDATA (for example) then you would need to do the following steps:

1. Run command: QIDRGUI/ADDIDRUSR YOURUSER
2. End Collection Services
3. You will need to either delete or save/copy all QAPM* files in QPFRDATA to another library if you wish to save your old data.
4. Restart Collection Services.

This would let user YOURUSER analyze new data collected on the IBM i. This also would let them analyze new PEX, Job Watcher or Disk Watcher collections not yet created in any library that does not already exist and contain performance data.

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4.11 How do I grant a user without *ALLOBJ authority access to analyze performance data (PEX, CS, JW, etc.) in a library?

The 1st step is to end all active performance collections that might be accessing any data in your library. Also end any iDoctor GUI sessions that might be accessing data in the library. Several commands will need to be ran to grant access to all performance data in library YOURLIB and user YOURUSER. You will need to run these commands:

- QIDRGUI/ADDIDRUSR YOURUSER
- ENDPFRCOL
- ENDSBS QIDRJW
- ENDPEX
- ENDJW
- ENDDW
- QSYS/GRTOBJAUT OBJ(YOURLIB/QAYPE*) OBJTYPE(*FILE) USER(YOURUSER) AUT(*OBJEXIST *OBJMGT *OBJOPR *OBJREF *READ *EXECUTE) REPLACE(*YES)
- QSYS/GRTOBJAUT OBJ(YOURLIB/QAPM*) OBJTYPE(*FILE) USER(YOURUSER) AUT(*OBJEXIST *OBJMGT *OBJOPR *OBJREF *READ *EXECUTE) REPLACE(*YES)
- QSYS/GRTOBJAUT OBJ(YOURLIB/QAPY*) OBJTYPE(*FILE) USER(YOURUSER) AUT(*OBJEXIST *OBJMGT *OBJOPR *OBJREF *READ *EXECUTE) REPLACE(*YES)
- QSYS/GRTOBJAUT OBJ(YOURLIB/QAIDR*) OBJTYPE(*FILE) USER(YOURUSER) AUT(*OBJEXIST *OBJMGT *OBJOPR *OBJREF *READ *EXECUTE) REPLACE(*YES)
- QSYS/GRTOBJAUT OBJ(YOURLIB/PEX*) OBJTYPE(*FILE) USER(YOURUSER) AUT(*OBJEXIST *OBJMGT *OBJOPR *OBJREF *READ *EXECUTE) REPLACE(*YES)
- QSYS/GRTOBJAUT OBJ(YOURLIB/CS*) OBJTYPE(*FILE) USER(YOURUSER) AUT(*OBJEXIST *OBJMGT *OBJOPR *OBJREF *READ *EXECUTE) REPLACE(*YES)

- QSYS/GRTOBJAUT OBJ(YOURLIB/*ALL) OBJTYPE(*MGTCOL) USER(YOURUSER) AUT(*OBJEXIST *OBJMGT *OBJOPR *OBJREF *READ *EXECUTE) REPLACE(*YES)

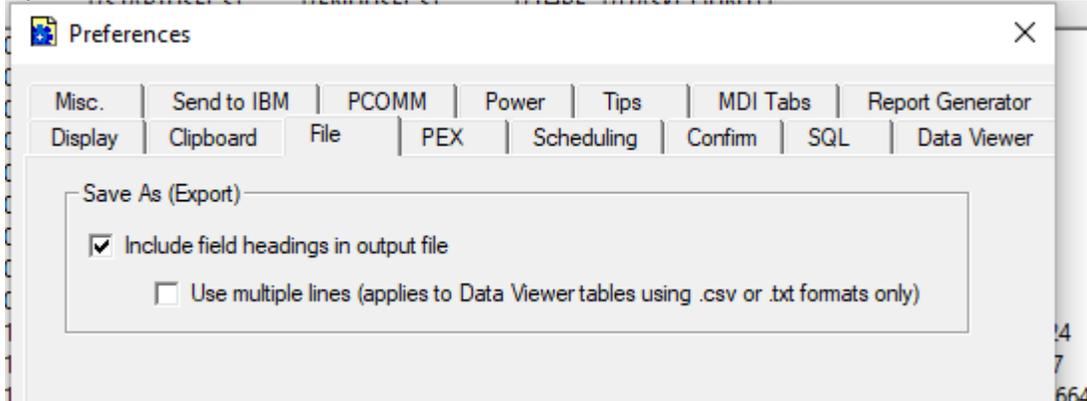
Note: With May 2023 builds or higher, you can use the General Functions -> System -> User profiles folder to grant a user access to a library. Right-click the desired user and use the “Grant authority to use performance data in library...” menu option. It will run the above GRTOBJAUT commands for you.

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4.12 How do I extract iDoctor data for use in Excel?

First, it's best to check and understand the preferences.

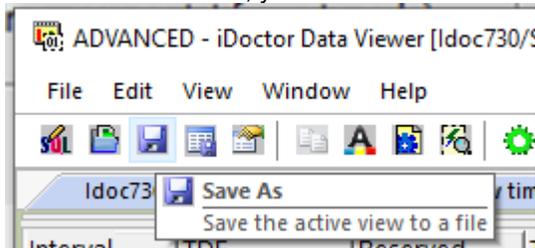
Open the Preferences interface from the menu Edit -> Preferences, then click the File tab.



Preferences -> File

Here you can configure if you want column headings to appear in your output and whether they should appear on multiple lines (similar to how they appear in iDoctor or not.)

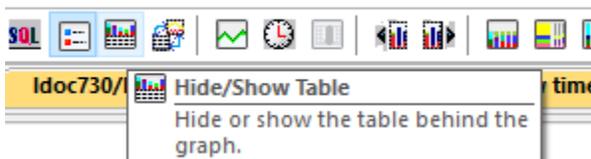
Next for a table view, you would use the Save button on the toolbar to create a .csv file for use with Excel.



Save As button on Data Viewer toolbar

Note: This can be a time-consuming operation. It is best to only do this with reasonably small data sets or this could take an extremely long time.

For a graph view, click the button to show the table below the graph.



Next click on the table below the graph (anywhere, so it has focus), then click the Save as button like before to export the graph's data to a .csv file for use with Excel.

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4.13 I am getting 'Statement contains wrong number of values' when trying to list collections with client 1570+

This means the table QUSRSYS/QAIDRCOLS is outdated and must be updated to work with the version of the GUI you are using. This can be resolved by reinstalling the server builds.

If you wish to avoid reinstalling server builds, then someone needs to do these steps once per LPAR:

1. Open Job Watcher (do not expand libraries)
2. From the Job Watcher icon right-click and take the Collections Database -> Check for locks menu option. If any locks then end those jobs by selecting all jobs, right-click Active job options -> End Job immediate
3. Then from the component icon right-click Collections Database -> Full Rebuild.

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5 Collection Services Investigator

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5.1 What is Collection Services Investigator?

[Collection Services Investigator](#) (CSI) provides graphs and other analysis functions for looking at IBM i performance data over the Collection Services data typically collected on an IBM i.

CSI is included with a Job Watcher license.

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5.2 How do I graph multiple days of data at once?

In order to graph multiple days / collections of data follow these steps:

1. (Optional) Run the Collection Summary analysis on all collections you wish to graph. Right-click the collection's -> Analyze -> Run Collection summary menu.

Note: This is recommended and should be done for all collections. You cannot graph multiple days of data if only some are summarized and some are not.

2. Select all collections you wish to graph within the library.

3. Right-click the selection and pick the graph of your choice. You will be asked if you wish to combine the data into a single graph. Click Yes

Collection	Using iDoctor collection summary	Status	Description	DB files VRM	Partition collected on VRM	Interval duration (minutes)	To
SQL tables							
Job Summary							
Q147183002	No	Ready for analysis		7.2	7.2	5.00	0
Q146183002				7.2	7.2	5.00	0
Q145183002			t graphs	7.2	7.2	5.00	0

Explore	
Record Quick View	
Analyses	>
Favorites	>
Wait graphs	>
CPU graphs	>

Collection overview time signature
Virtual CPU delays

Example of how to graph multiple collections in Collection Services Investigator

Graph multiple collections? ✕

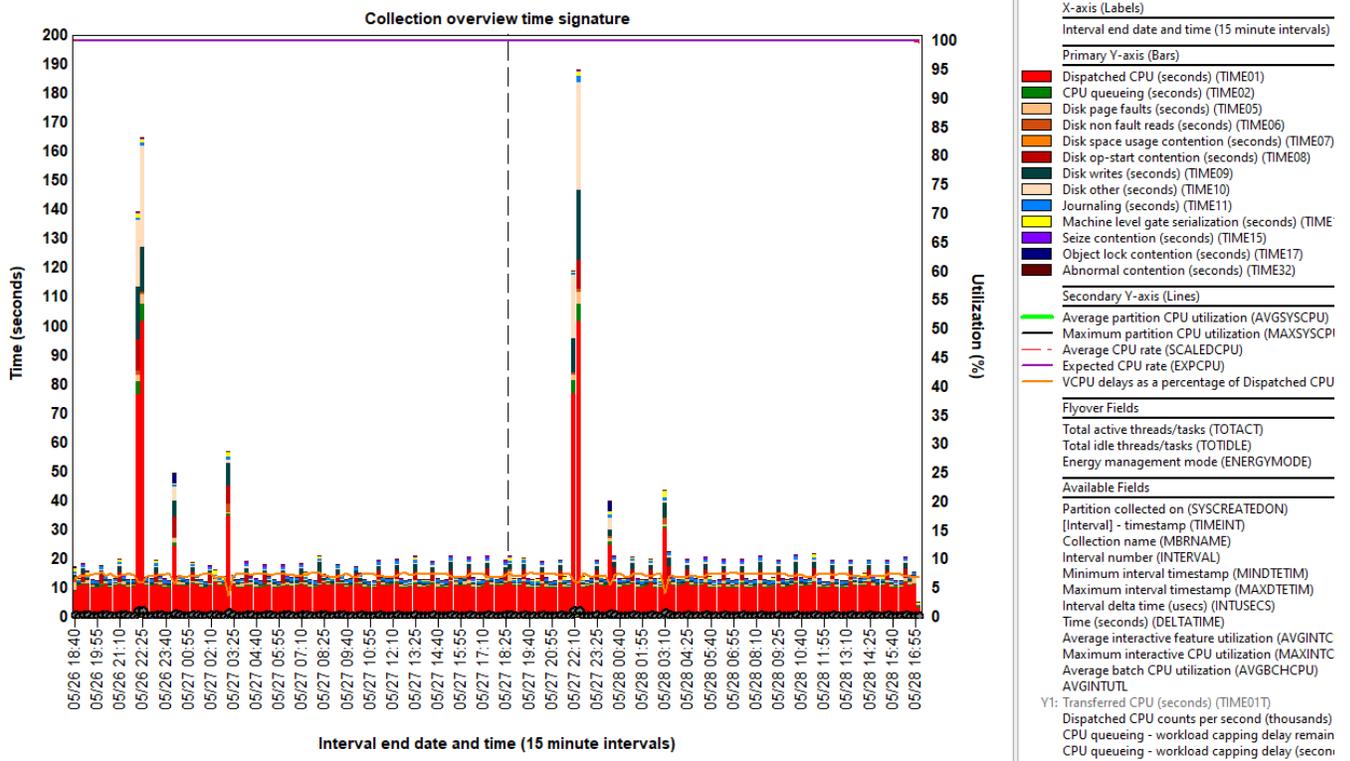
Do you wish to combine the data from the 2 collections selected into a single report?

Note: In CSI, all collections must either be summarized or not summarized.

Yes
No
Cancel

Graph multiple collections prompt

Tip: Clicking 'No' above would cause 2 graphs to be opened instead (one for each collection.)



Collection overview time signature showing 2 collections

In the graph where you see vertical dashed lines, this indicates that a break in the data where a new collection is being shown.

Tip: Use the clock icon in the toolbar to set the interval size to 1-hour groupings (or higher) if there are many bars for easier readability of multiple days of data.

Note: Instead of the above steps the Historical Summary analysis can be ran against a library (which summaries the data in all collections in the library). This also makes it easier to graph data over several days, weeks or possibly months.

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5.3 When listing collections, I see the message Missing required data: QIDRGUI/QAIDRPCRM?

This message will appear if you are using an older iDoctor server build with a newer client build (1381 or higher.) This new table is required now in order to show the Collection overview time signature at 7.2+ with the new Expected CPU rate metric.

Collection	Using iDoctor collection summary	Status	Description	DB files VRM	Partition collected on VRM	Interval duration (minutes)
SQL tables						
Job Summary						
Q323115705	No	Missing required data: QIDRGUI/QAIDRPCRM		7.1	7.1	15.00
Q323000116	No	Missing required data: QIDRGUI/QAIDRPCRM		7.1	7.1	15.00
Q322000104	No	Missing required data: QIDRGUI/QAIDRPCRM		7.1	7.1	15.00
Q321000102	No	Missing required data: QIDRGUI/QAIDRPCRM		7.1	7.1	15.00
Q320000109	No	Missing required data: QIDRGUI/QAIDRPCRM		7.1	7.1	15.00
Q319000108	No	Missing required data: QIDRGUI/QAIDRPCRM		7.1	7.1	15.00
Q318000111	No	Missing required data: QIDRGUI/QAIDRPCRM		7.1	7.1	15.00
Q317000109	No	Missing required data: QIDRGUI/QAIDRPCRM		7.1	7.1	15.00
Q316000109	No	Missing required data: QIDRGUI/QAIDRPCRM		7.1	7.1	15.00
Q315000103	No	Missing required data: QIDRGUI/QAIDRPCRM		7.1	7.1	15.00
Q314000104	No	Missing required data: QIDRGUI/QAIDRPCRM		7.1	7.1	15.00

Example list of collections in Collection Services Investigator

This can be resolved by either running the Create QIDRGUI/QAIDRPCRM analysis for any collection on the system (one time) or reinstalling the latest server builds.

Note: The table QIDRGUI/QAIDRPCRM contains data from the various IBM i Power Systems Performance Capabilities Reference documents. These are listed on our website at:

<http://public.dhe.ibm.com/services/us/igsc/idoctor/html/downloadsDemos.html>

Attempting to open iDoctor graphs anyway with this status message present will result in an error like this:

```

Idoc720/CSLABEX1/Q175102853/Average CPU rate - #1 x
Idoc720/CSLABEX1/Q175102853/Average CPU rate - #1
QUERY FAILED! UNABLE TO EXECUTE THE FOLLOWING SQL STATEMENT(S):
> WITH NOMGHZ AS (
  SELECT 'Q175102853' AS MBRNAME, DOUBLE(HEXTOBINT(substr(CHAR(HEX(gdes)), 5, 4
[SQL0204] QAIDRPCRM in QIDRGUI type *FILE not found.

Cause . . . . : QAIDRPCRM in QIDRGUI type *FILE was not found. If the member name is *ALL, the table is
function, procedure, trigger or sequence object was not found. If a function was not found, QAIDRPCRM is t
gives more details on which function name is being searched for and the name that did not match.
Recovery . . . : Change the name and try the request again. If the object is a node group, ensure that the C
the EXTERNAL NAME on the CREATE FUNCTION statement exactly matches the case of the name exported

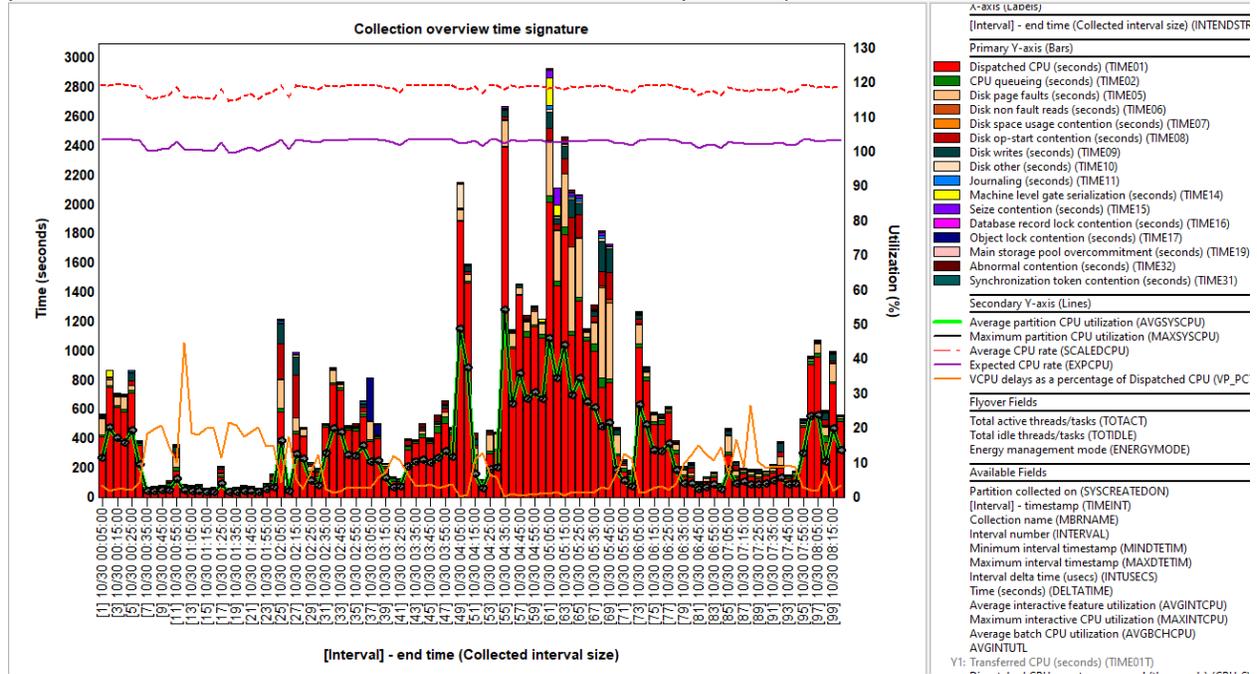
```

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5.4 What is Expected CPU rate?

This iDoctor-exclusive metric is found on the Collection Overview Time Signature graph in Collection Services Investigator and is an indicator of whether the CPU is running at a typical speed based on several factors like the processor's nominal speed, power mode, processor feature and min/max frequency.

With Power 9 systems are often shipped by default with the power mode set to maximum. In this case it is normal to have a high CPU speed and the expected CPU rate will likely be over 100% (if not and the power mode is set to maximum then this could indicate a problem.).



Power 9 system with power mode set to maximum

In the above example Expected CPU rate is listed at around 105% while Average CPU rate is about 120%. This is an example of a normal scenario.

At Power 7 and Power 8 systems are set to nominal power mode by default. In this case, the Expected CPU rate will be about the same as the Average CPU rate. They will differ only in situations where the nominal CPU speed listed in QAPMCONF by Collection Services for this system is different than the PCRM documented value for nominal speed for this system.

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5.5 What is Average CPU rate?

Average CPU rate is included on the Collection Overview Time Signature and is an indication of how hard the CPU is running based on the power mode setting of the system and the current system activity. This value is also listed in WRKSYSACT. It is defined there as:

```

Average CPU rate - Help
-----
The average CPU rate expressed as a percentage where 100%
indicates the processor is running at its nominal
frequency. A value above or below 100% indicates how much
the processor has been slowed down (throttled) or speeded
up (turbo) relative to the nominal frequency for the
processor model. For instance, a value of 120% indicates
the processor is running 20% faster against its nominal
speed.
    
```

WRKSYSACT – Average CPU rate

On Power 9 if the power mode setting is set to maximum, then this value is generally higher than Expected CPU rate. On Power 8 and Power 7 the Average CPU rate value generally matches [Expected CPU rate](#).

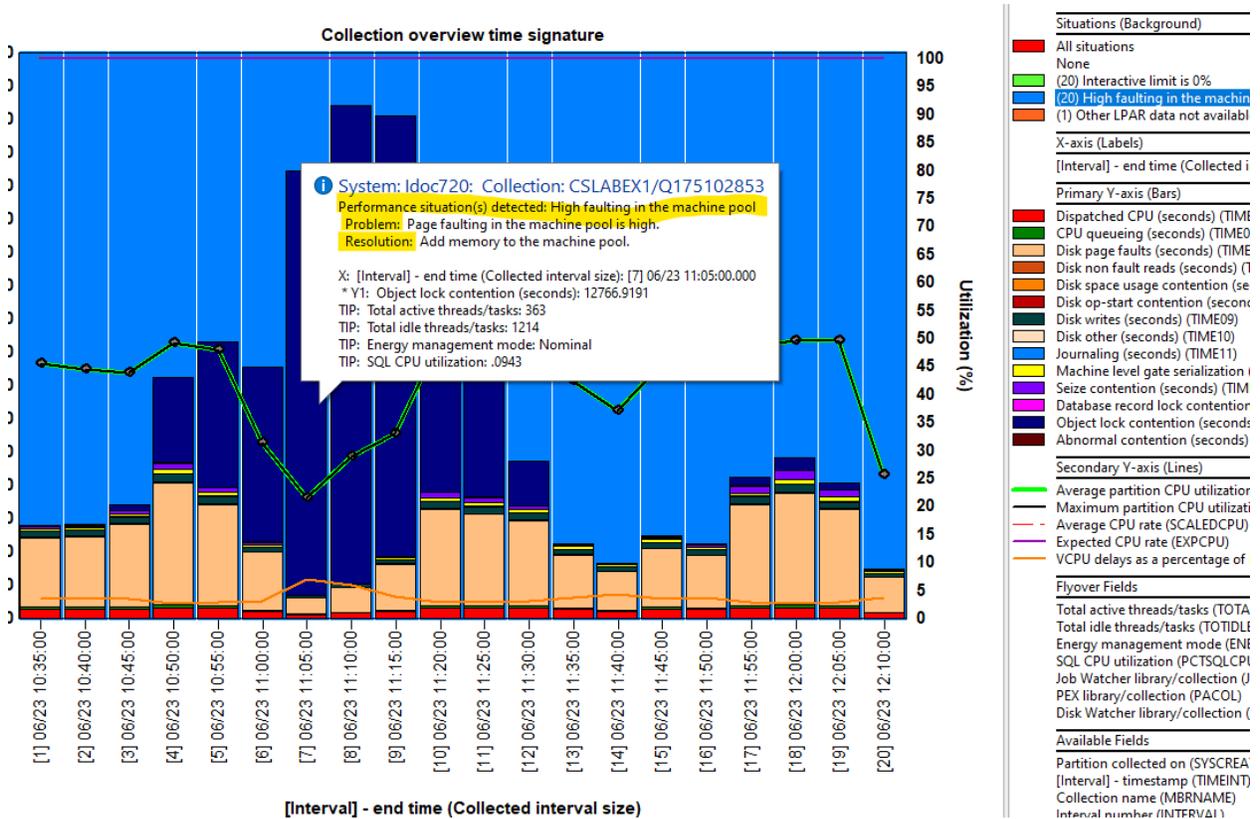
Note: In the past this column was named "CPU power-savings rate (Scaled CPU: Nominal CPU)" and was renamed to Average CPU rate in client 1365.

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5.6 What is Situational Analysis?

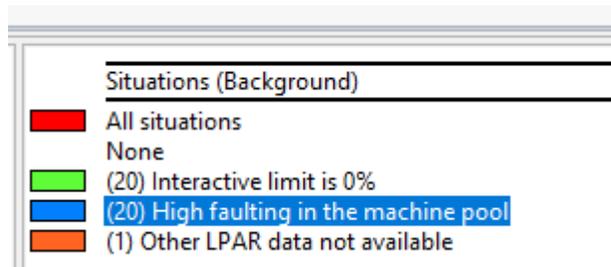
Situational Analysis is a function in iDoctor that looks for performance problems in a collection based on issues encountered in the past in various real-world customer problems. If situations (problems) are found in the data, they will be highlighted on the collection's high level (over time) graphs.

Each situation has a problem description and resolution description and is given a background color in the graph. When situations are found instead of the graph's background being white it will be the color assigned for the situation. If multiple situations are found in a time interval, then that color is always red.



An example of a graph with 3 situations but only 1 visible currently

To control which situations are visible on the graph simply click the name of the desired situation in the top right corner of the graph legend. You can also click None to hide all situations if there are too many and it becomes over whelming.



Graph Legend situations section example

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5.7 When opening graphs I see the error HEXTOBINT in *LIBL not found?

This SQL function should have been created when iDoctor was installed.

```
QUERY FAILED! UNABLE TO EXECUTE THE FOLLOWING SQL STATEMENT(S):
> -- this builds a list of non-CS collections on the system in the browse collections repository for t

[SQL0204] HEXTOBINT en *LIBL de tipo *N no encontrado.
HEXTOBINT in *LIBL error
```

A work around would be to try running these commands in an SQL editor of some sort (iDoctor's would work or STRSQL, RunSQL Scripts/etc) and the issue should resolve itself.

```
create OR REPLACE function qidrgui/hextobint (VARCHAR(16))
  returns BIGINT
  LANGUAGE C
  external name 'QIDRGUI/QIDRUDFS(HEXTOBINT)'
  Parameter style general
  NO SQL
  DETERMINISTIC
  RETURNS NULL ON NULL INPUT
  NOT FENCED;

GRANT EXECUTE
  ON SPECIFIC FUNCTION QIDRGUI/HEXTOBINT
  TO PUBLIC;
```

If problems persist, then rerun the iDoctor installation on the server. If errors occur or the problem remains then we will need the setup log sent to us which typically you could find this in C:\program files (x86)\ibm\idoctor\setuplogs\setup_<yoursystemnamehere>.log

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6 Job Watcher

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6.1 What is IBM iDoctor for IBM i Job Watcher?

[Job Watcher](#) is a performance analysis tool in the iDoctor tools suite that provides summarized and detailed job statistics including wait bucket statistics. It also includes information such as holding jobs, wait objects and call stacks that are very useful for solving many performance problems on IBM i.

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6.2 What are the software requirements for running the server code of Job Watcher?

At 6.1 and higher, the Job Watcher commands are included with IBM i. However, it is strongly recommended to ensure the required Job Watcher PTFs are up to date before running collections.

[PTF information](#) is listed on our website. Other requirements are listed in the [documentation](#) for installing Job Watcher.

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6.3 How do I get started using Job Watcher?

The best place to start is the [Video Library](#) page to view videos of how to use the tools.

The [documentation](#) also provides information about how to use the tools. Education is also available via one of our on-site [customer workshops](#).

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6.4 How do I graph multiple collections at once?

To graph multiple collections, follow these steps:

1. (Required, if not already completed.) Run the Collection Summary analysis on all collections you wish to graph. Right-click the collections -> Analyze -> Run Collection summary menu.

Note: You can tell if this is done by looking at the column "Using iDoctor Collection Summary" and looking for a value of Yes.

2. Select all collections you wish to graph within the library.

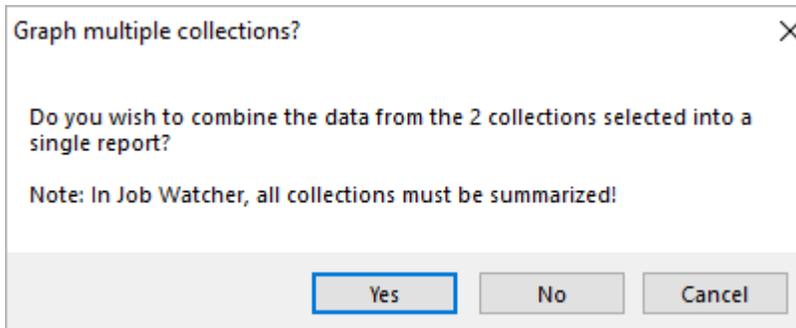
3. Right-click the selection and pick the graph of your choice. You will be asked if you wish to combine the data into a single graph. Click Yes

Collection	Status	Ending reason	Using iDoctor collection summary	Collection size (MB)	DB files VRM	Partition collected on VRM	Partition collected on	Last interval collected	Active threads
SQL tables									
Job Summary									
Q024130150	Ready for analysis	Ended by user	No	32.95	7.2	7.2	IDOC720		125
BUID			No	75.15	7.2	7.2	IDOC720		152
AAAFD			No	75.15	7.2	7.2	IDOC720		152
Q118113517			No	75.15	7.2	7.2	IDOC720		152

Explore	
Record Quick View	
Analyses	>
Favorites	>
Waits	>
CPU	>
Memory	>

Collection overview time signature
Collection overview with dispatched CPU time signature
Collection overview time signature with max waits in-progress

Example of graphing multiple collections in Job Watcher



Graph multiple collections prompt

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7 PEX Analyzer

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7.1 What is PEX Analyzer?

The PEX Analyzer component of iDoctor is an in-depth performance analysis tool that provides highly detailed reports (called analyses) over many different types of PEX data. PEX Analyzer consists of data collection and manipulation programs on the server-side and friendly, easy-to-use graphical interfaces over the performance data on the client side. The data can be manipulated in various ways to help find and diagnose performance problems effecting your System i.

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7.2 What are the software requirements for running the server side of PEX Analyzer?

PEX and DB2 are required but these are included with IBM i. General iDoctor IBM i requirements are listed [here](#).

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7.3 Can I use the PEX Analyzer software to analyze data on all servers in my enterprise?

Yes. A single installation of PEX Analyzer can be used to analyze data collected on other systems. What you will not be able to do is collect the data on other systems via iDoctor's commands (QIDRPA/STRPACOL) or by using the iDoctor GUI. This means any PEX data you collect on these systems without PEX Analyzer access, must be collected using IBM i commands: ADDPEXDFN, STRPEX, ENDPEX instead.

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7.4 I understood Performance Explorer, PEX, to be part of the operating system so what exactly is PEX Analyzer?

Performance Explorer or PEX, is indeed part of the base IBM i operating system. The necessary commands to collect PEX data are shipped with the base operating system. What PEX Analyzer provides is an easy-to-use collection facility, and a GUI client constructed from years of built-in experience and function based on "real-world" requirements. These "real-world" requirements are the results of work on the toughest problems that the IBM i Global Support Center has worked on and resolved. It is one of the reasons we feel so strongly that it's the best problem-solving tool available on the market today.

We typically start with Collection Services and/or Job Watcher data first and then if the problem cannot be solved, we turn to PEX Analyzer to solve the toughest problems.

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7.5 I want to learn more about PEX and performance analysis. Are there any courses available?

For hands-on educational assistance, you may request one of our iDoctor workshops.

More information is provided [here](#).

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