Cool things in Navigator for IBM i to be a Rock Star Administrator

iTech Solutions because IBM i (AS/400s) don't come with System Administrators

Pete Massiello iTech Solutions pmassiello@itechsol.com







In this session

We are going to go over how to use IBM Director Navigator for i, by first making sure we have all the components required. Then what needs to be started, and then look at the features and functions in the product that you can use.

What we will cover

Getting Started

- Task Categories
 - —System: System Status, Messages, disk status
 - —Database: Performance monitors and Index Advisor
 - —Basic Operations: View Messages, Out Queues, Printers, Jobs.
 - —Configuration: Manage hardware, software, and system values.
 - -Network: TCP/IP
 - —Integrated Server Admin: Hosted servers & disk
 - —Security: Authorization lists, Object authority, and Intrusion Detection.
 - —Users & Groups: Manage profiles & groups.
 - —Journal Management: Journals and receivers
 - —Performance: Tools & Graphs to Analyze performance
 - —Files: Manage objects and IFS
 - —Internet Configurations: HTTP Server, Digital Certificates

Director Navigator for i

- Introduced with 6.1, Director Navigator for i is a web-based console that provides a single, easy-to-use view of your system.
- There is nothing required to purchase.
- Many Systems Management and Operations functions.
- Confusing name.
- Merger of System i Navigator into a web tool
- Portlet based Refreshes better.
- New release via PTFs

System i Navigator (What you were used to)

- Windows based application that runs on a PC
- Contains Management Central to manage multiple systems
- Requires loading IBM i Access (Client Access iSeries Access) on your
 PC
- Has limited graphical interface
- A Client/Server application.

Director Navigator for i

- Uses a web browser
- Nothing additional to load
- Integrated into IBM i base operating system (57xx-SS1 option 3)
- Has over 300 tasks
- URL addressable
- What it does not have
 - –Management Central
 - -Visual Explain
 - -Database Navigator
 - —Disk Management graphics

Required Software

- 57xx-SS1 Option 1 Extended Base Support
- 57xx-SS1 Option 3 Extended Base Directory Support
- 57xx-SS1 Option 12 Host Servers
- 57xx-SS1 Option 30 Qshell
- 57xx-SS1 Option 33 Portable Application Solutions Environment (PASE)
- 57xx-DG1 IBM i HTTP Server
- 57yy-JV1 IBM Developer Kit for Java (6.1 only)
- 57yy-JV1 Install default JVM for release
- -xx = 61 for IBM i 6.1, 70 for IBM i 7.1, 7.2, & 7.3
- yy = 61 for IBM i 6.1 & 7.1, 70 for IBM i 7.2 & 7.3

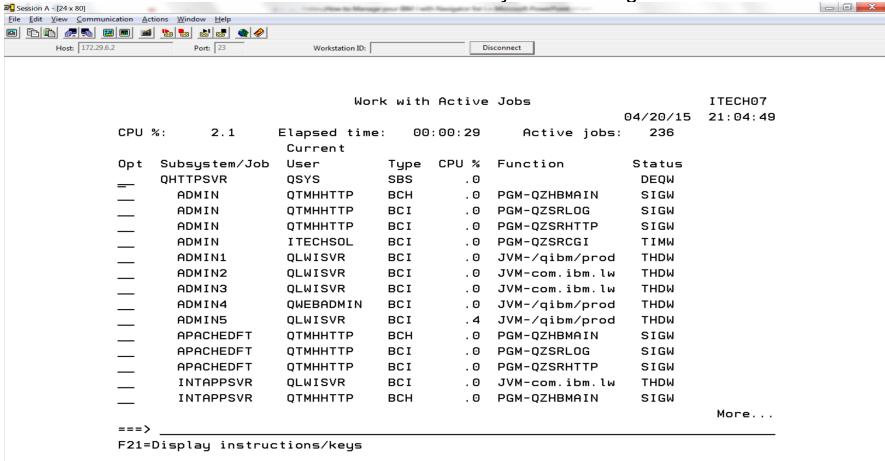
Required PTFs

New functionality is delivered via HTTP DG1 Group PTF

- IBM I 7.3 SF99722
- IBM I 7.2 SF99713 Level 6 or higher
- IBM I 7.1 SF99368 Level 16 or higher
- IBM I 6.1 SF99115 Level 28 or higher
- WRKPTFGRP

Check to make sure this is active

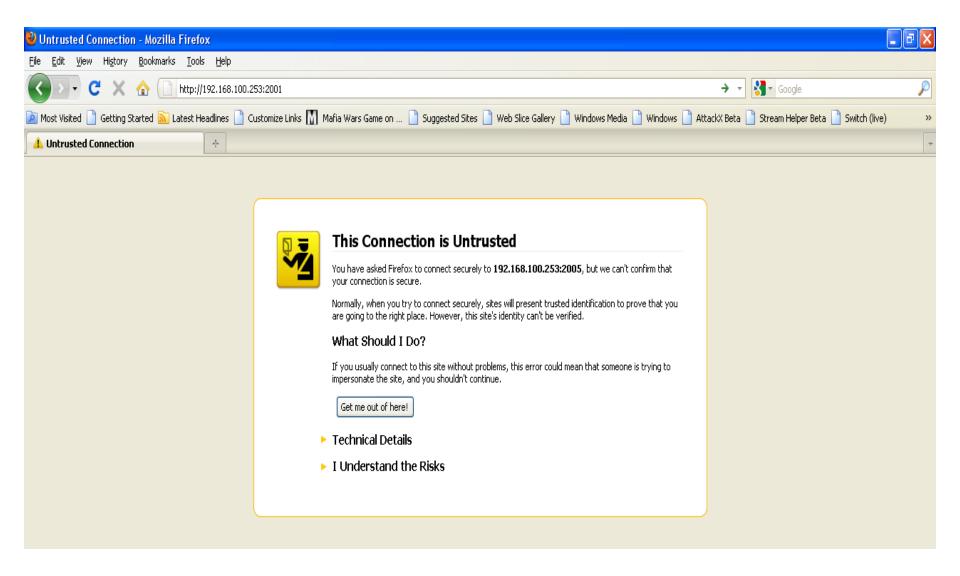
- Start TCP
- Start TCP Servers: STRTCPSVR SERVER(*HTTP) HTTPSVR(*ADMIN)
- You need the ADMIN Server under QHTTPSVR subsystem running



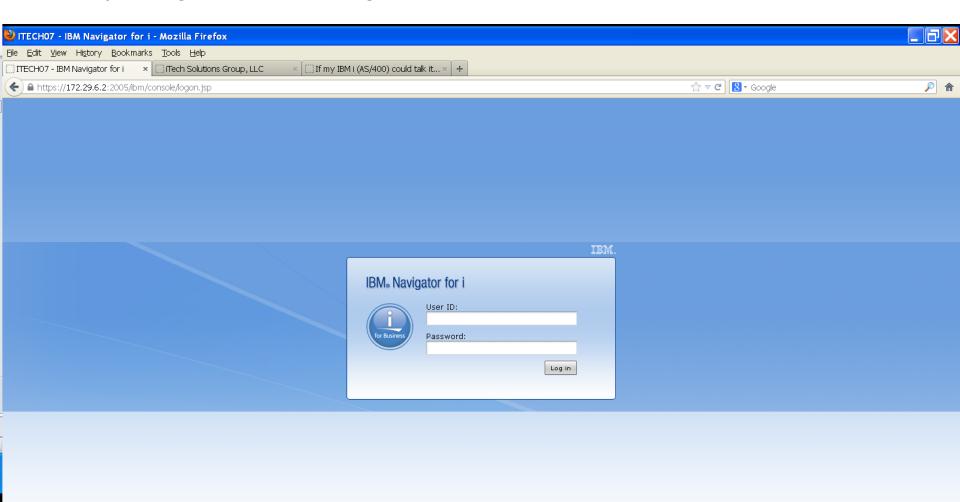
Optional Plug-ins available

- Backup Recovery Media Services (BRMS) 57xx-BR1
- IBM i High Availability Solutions Manager 57xx-HAS
- IBM Performance Tools for IBM i Disk Watcher 57xx-PT1 Opt1
- IBM i Job Watcher 57xx-PT1 Opt 3

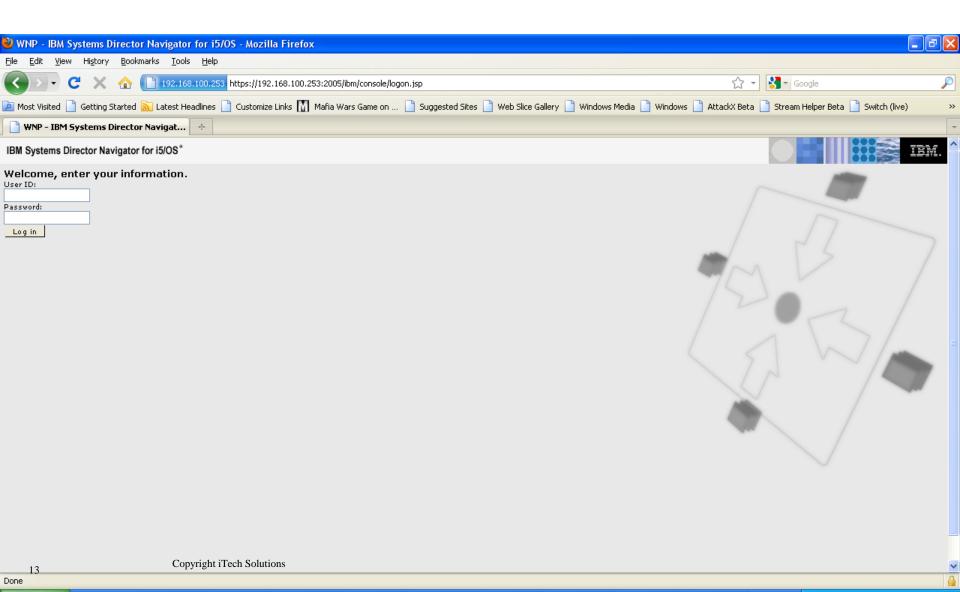
How to Connect – URL - http://<systemname>:2001



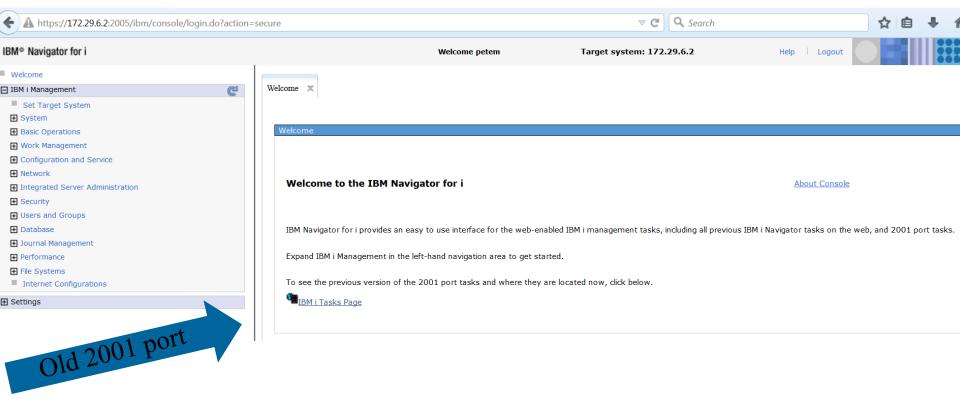
This is your sign-on screen – regular User ID & Password



Without PTFs



Main Screen



Old 2001 Port screen – IBM i Tasks from Main menu



A https://172.29.6.2:2005/ibm/console/navigation.do?pageID=com.ibm.i5OS.webnav.navigationElement.TasksPagePortlet&mod

IBM i Tasks - Itech07.itechsol.com

IBM i Tasks allows you to access the tasks that were previously displayed on the IBM i Tasks web page.



IBM Web Administration for i

Allows you to manage and configure HTTP servers and application servers (Located in Internet Configurations)



Digital Certificate Manager

Allows you to create, distribute, and manage Digital Certificates (Located in Internet Configurations)



IBM Tivoli Directory Server Web Administration Tool

Allows you to administer the IBM Tivoli Directory Server for i (Located in Network)

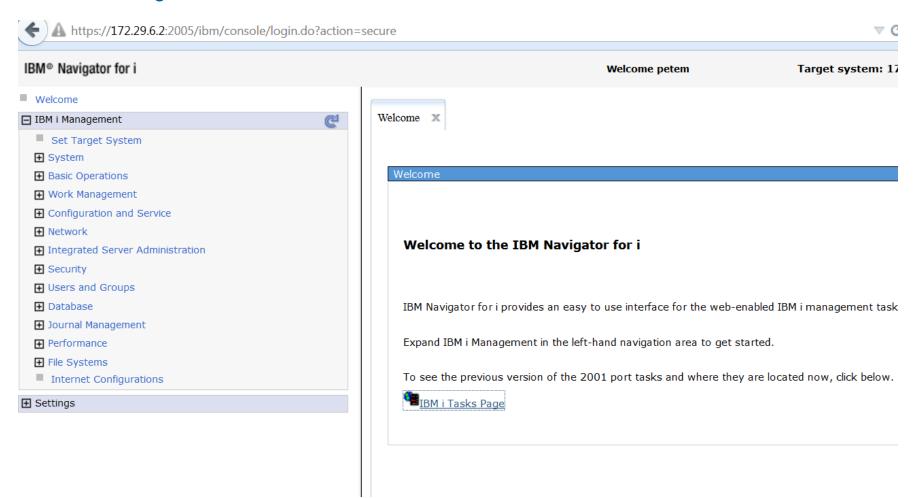


IBM IPP Server for i

Allows you to configure the IBM IPP Server (Located in Internet Configurations)

Close

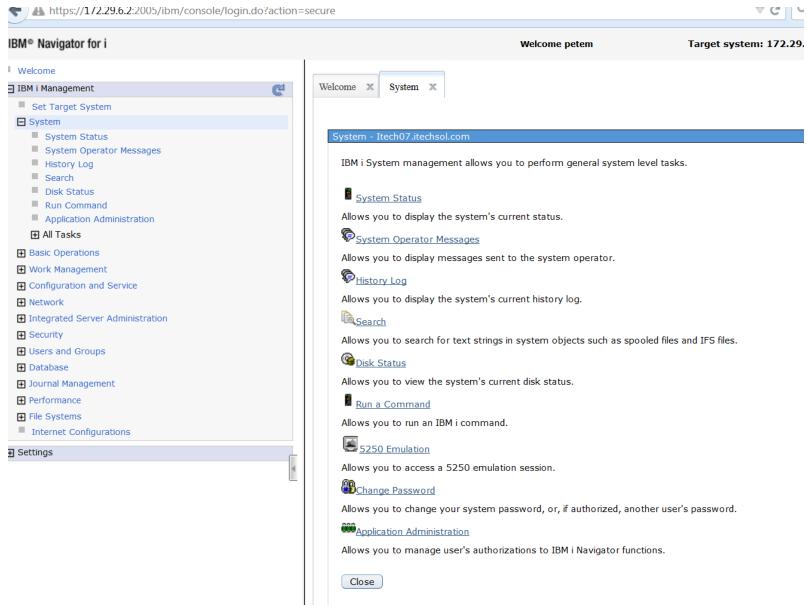
Director Navigator for i Main Menu



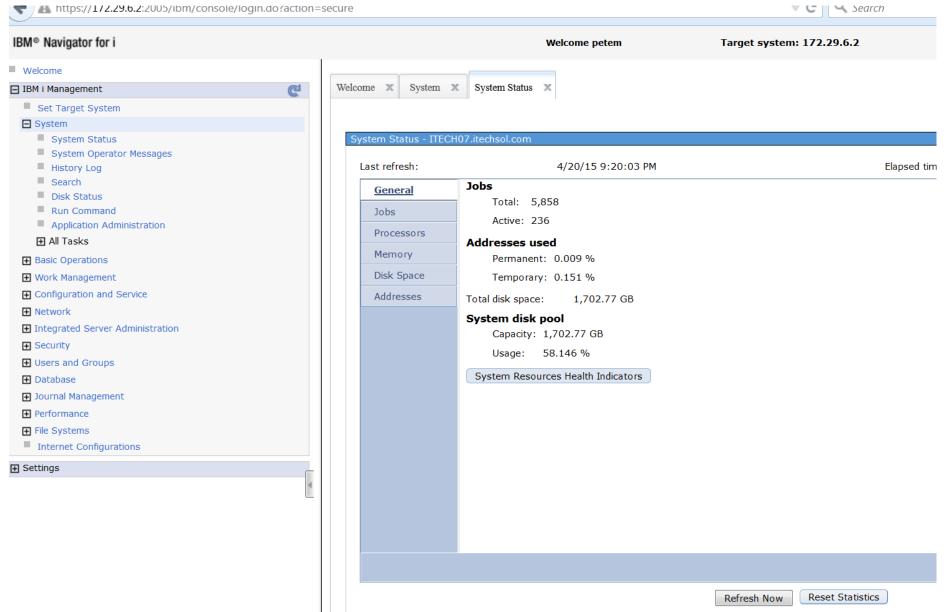
Task Categories

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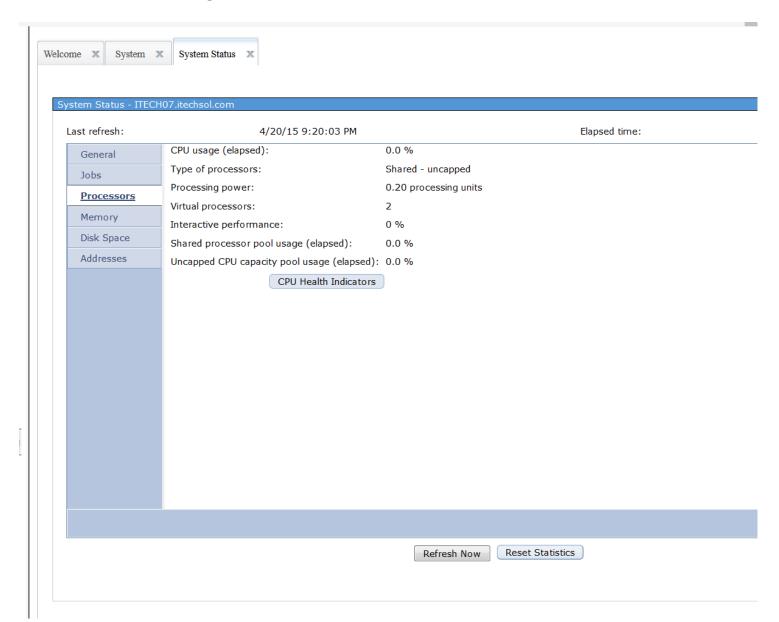
System Tasks



General information on System, Tasks

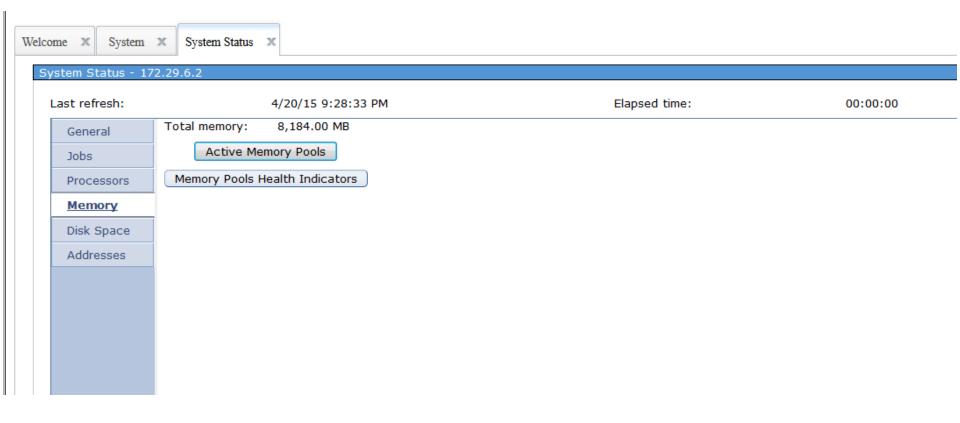


Information on CPU Usage & Processors

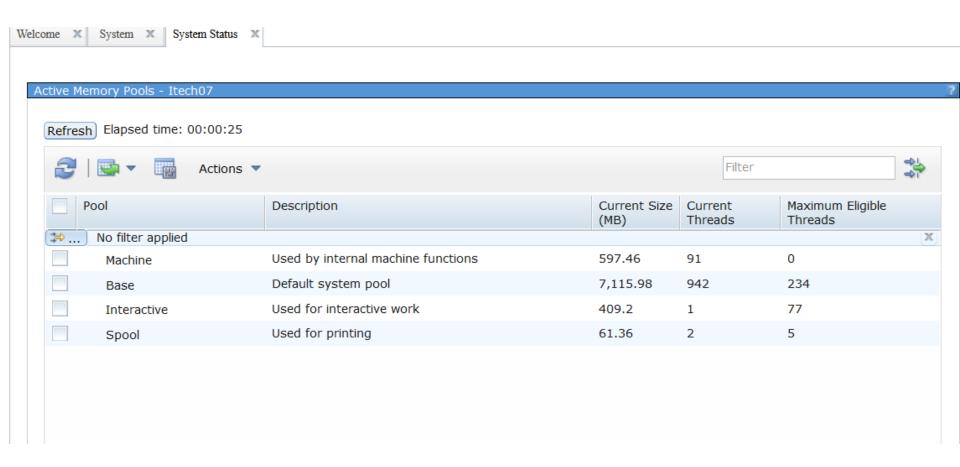


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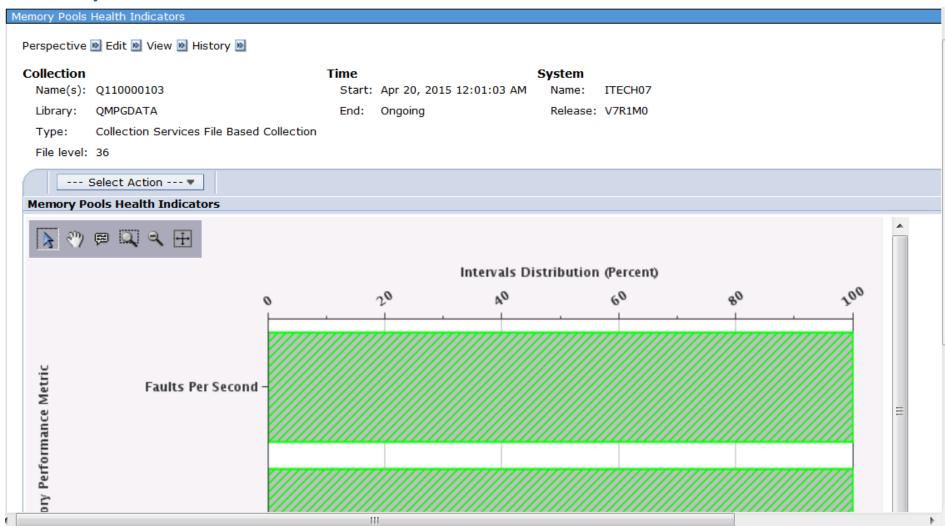
Memory



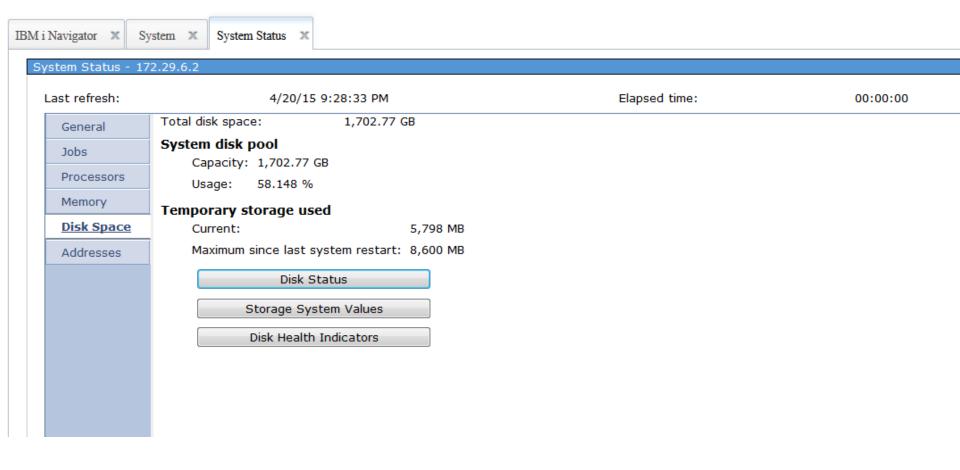
Memory Pools: Subset of WRKSYSSTS



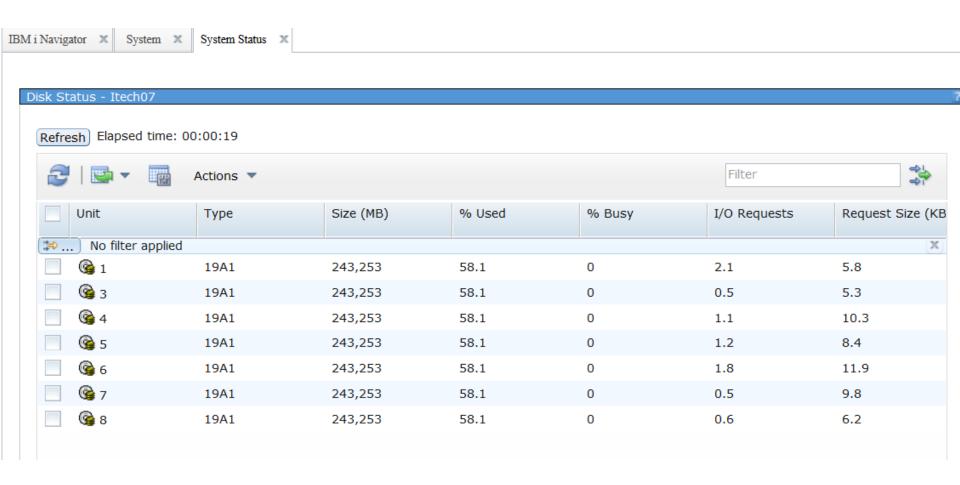
Memory Pools: Health Indicators



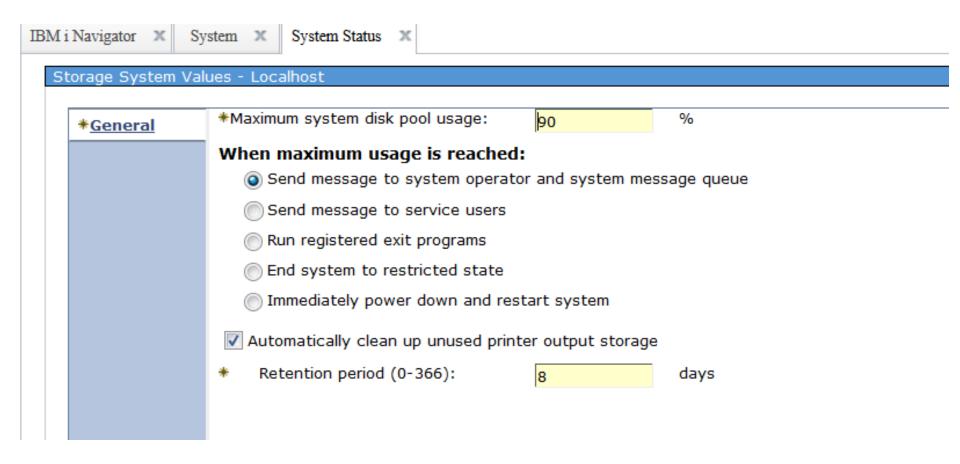
Disk Capacity Information



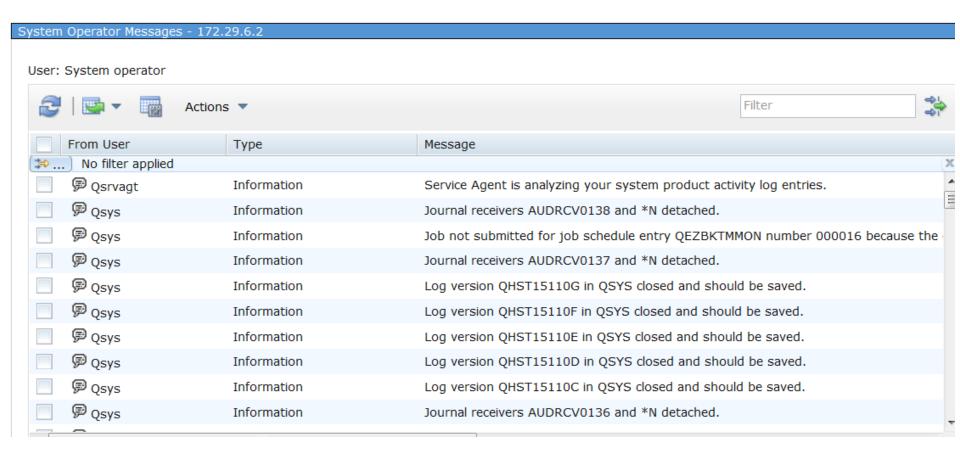
Disk Information - WRKDSKSTS



What to do when maximum Disk space is reached

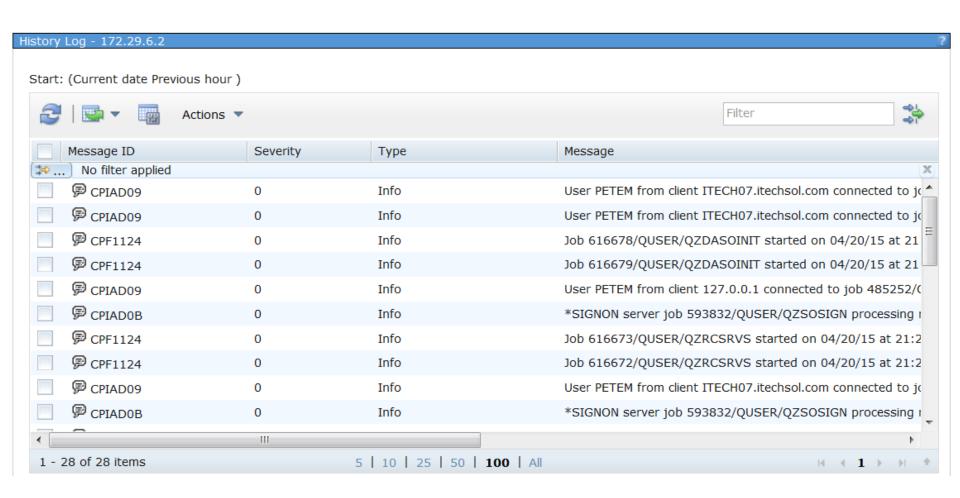


System Operator messages: like DSPMSG QSYSOPR

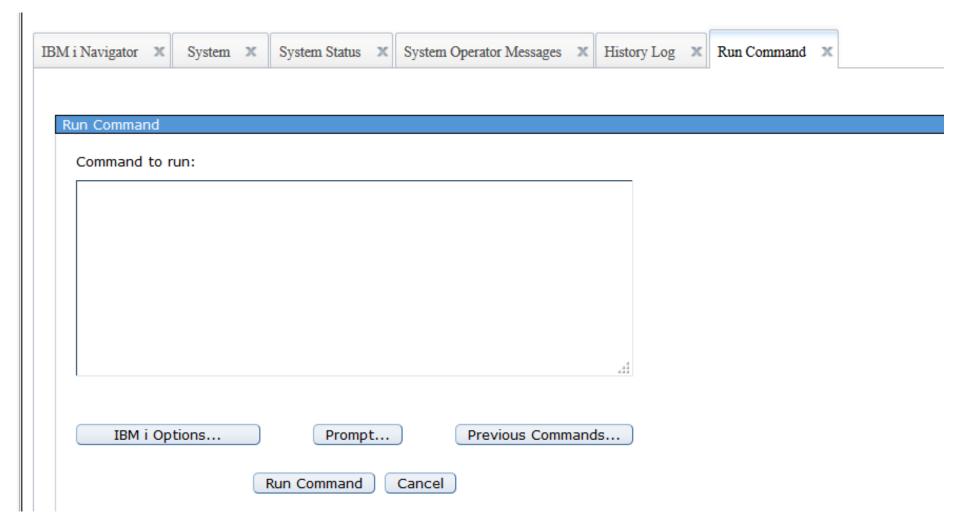


History Log





Run an IBM i Command



Application Administration

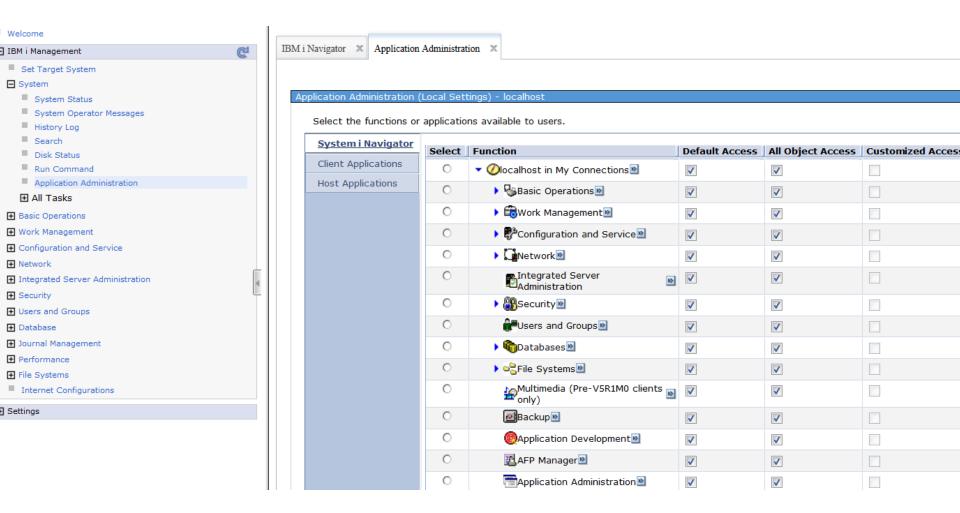
- Control what users have access to FTP & what they can do.
- Control what FTP commands users can perform
 - —Change Directory
 - -Receive files
 - -Send files
 - -CL Commands
- Control what users can upload and download data using IBM i Access, and ODBC.
- Everyone can do until one person is entered.
- This and Index Advisor worth price of entire conference.



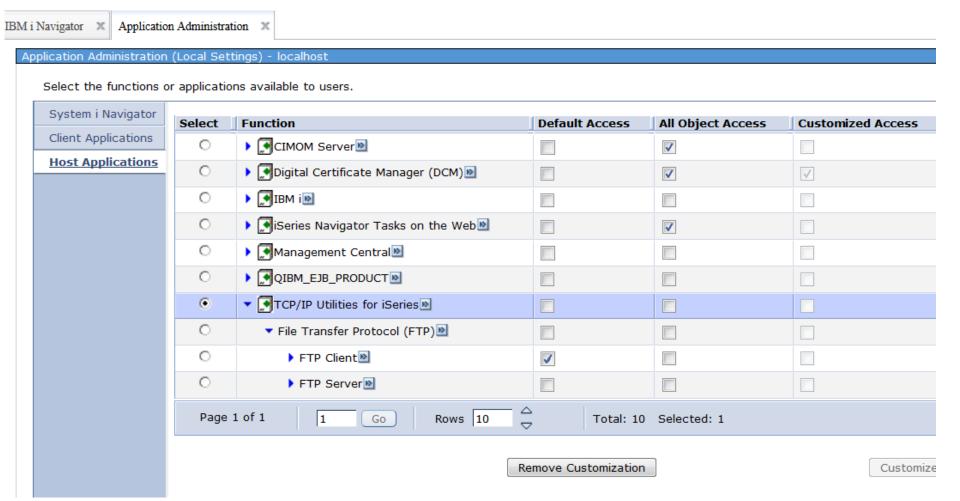


Tip

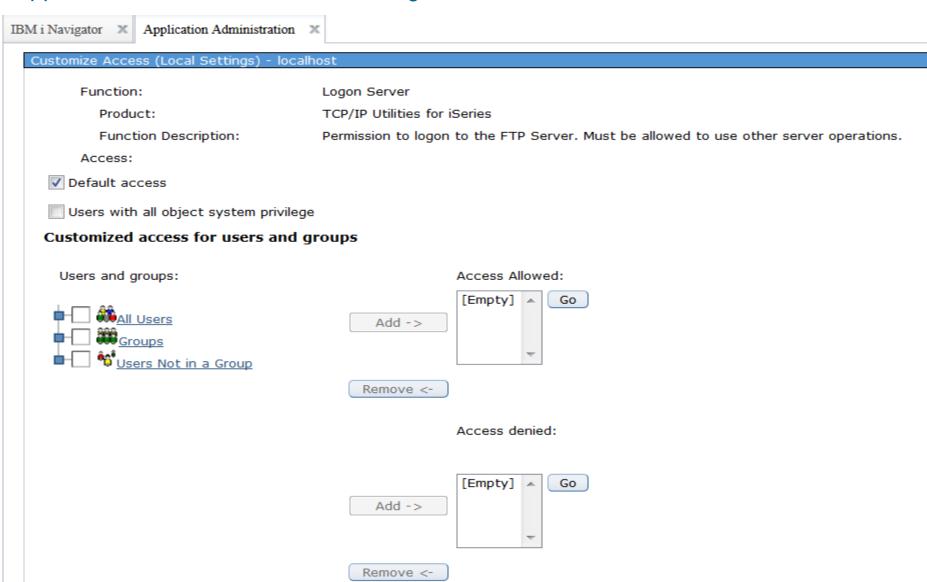
Application Control



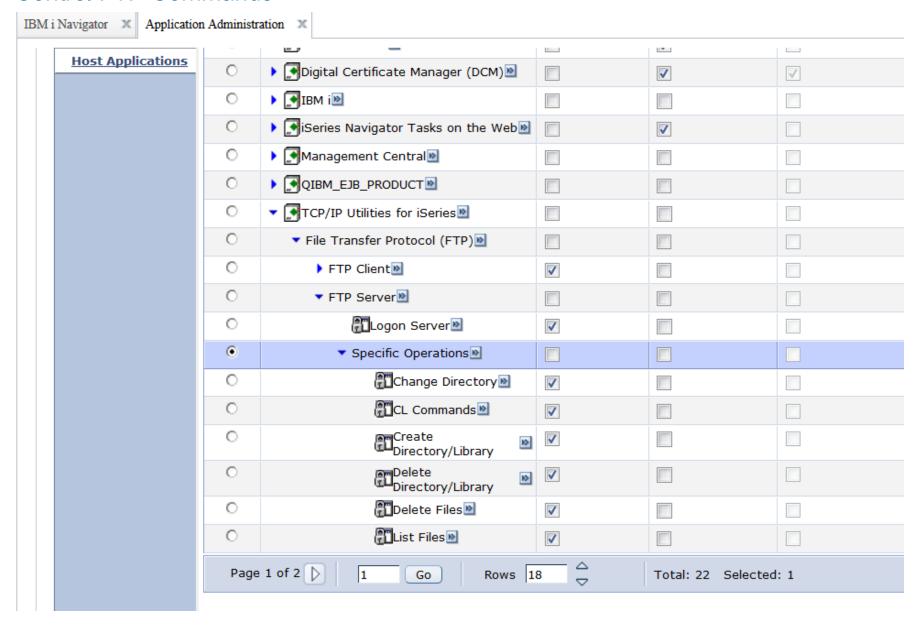
Application Control FTP



Application Control - FTP Server - Logon Server



Control FTP Commands



Task Categories

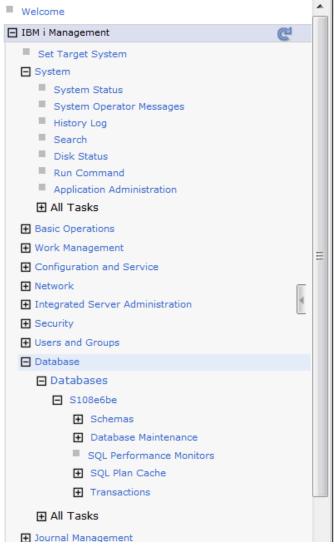
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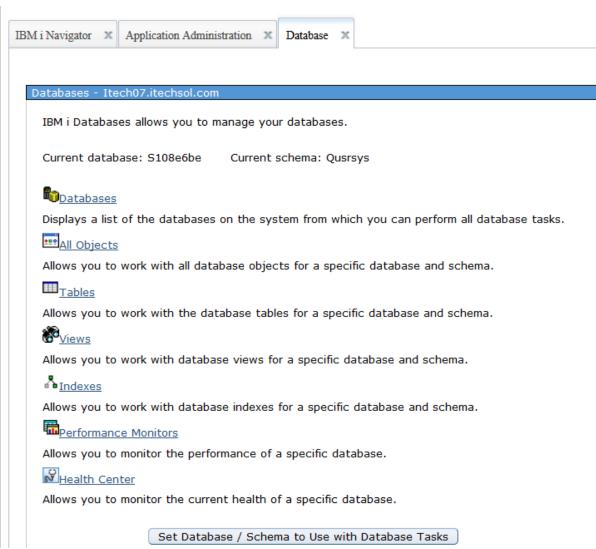
Database

- Index Advisor Show what indexes are required
 - –Easy to use
 - -Great way of getting performance
 - —Resolve long running jobs that create AP
 - —Second best feature of DN.
- SQL Plan cache
- Create SQL Statements
- SQL Packages
- Performance monitors

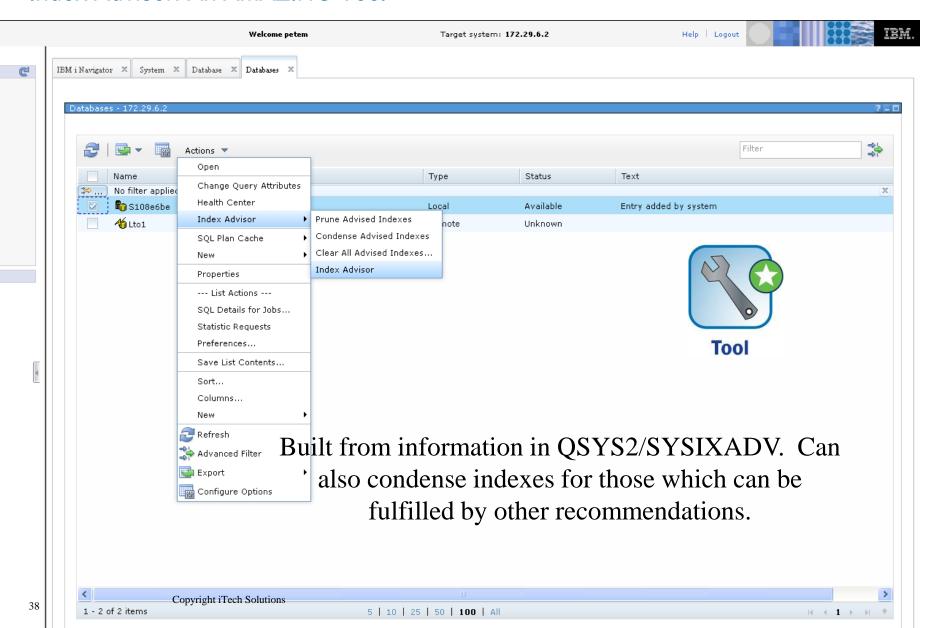


Database Main menu





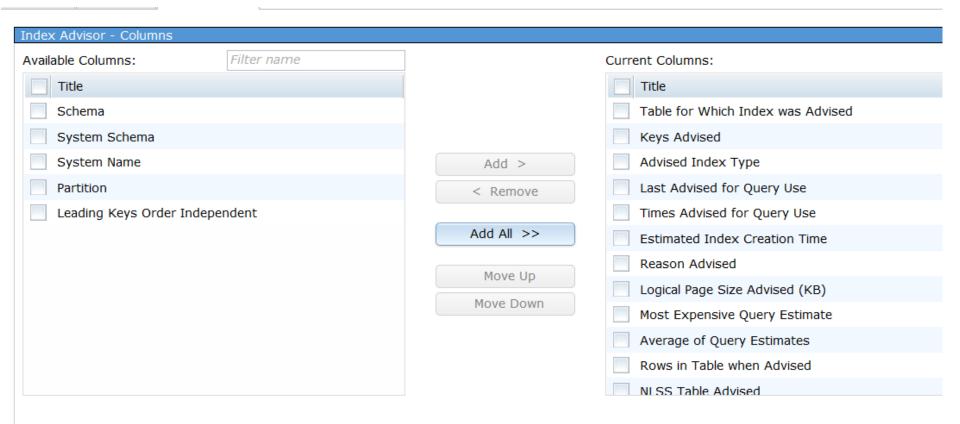
Index Advisor: An AMAZING Tool



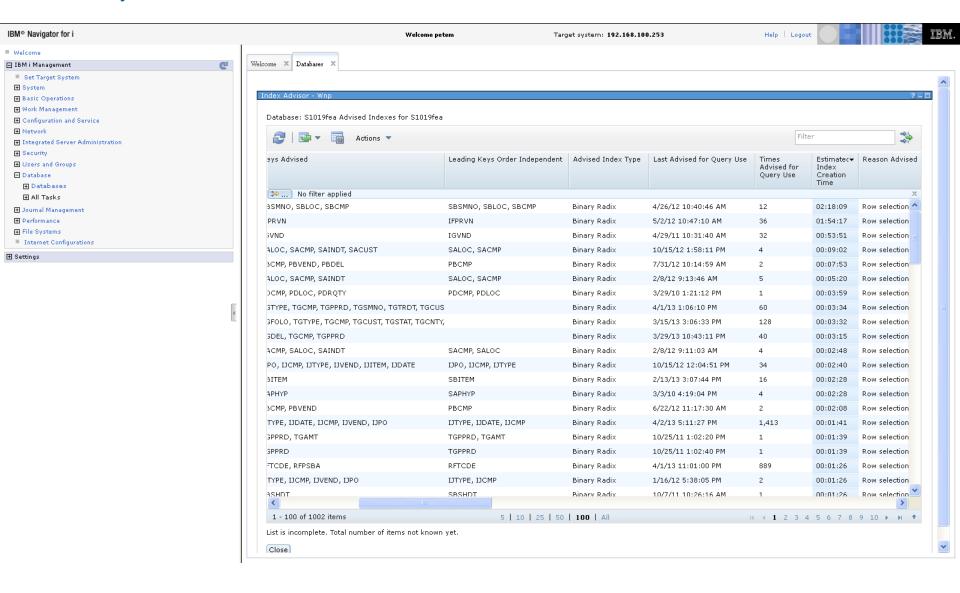
Times no Index was found and the time to build

Z	-	Actions ▼			Filter	
	Table for Which Index was Advised	Keys Advised	Advised Index Type	Last Advised for Query Use	Times Advised for Query Use	Estimated Ir Time
⇔	. No filter applie	d D:				
	RCW1403	W1PAL#	Binary Radix	4/20/15 4:16:19 PM	4,564,760	00:00:01
	BCW1403	W1CO#, W1FWHS, W1FLOC, W1PRD, W1PAL#	Binary Radix	4/20/15 4:16:19 PM	2,943,922	00:00:05
	Tribrile 1	WHNAME, WHFLDI	Binary Radix	4/20/15 7:03:13 PM	2,637,084	00:00:01
	NBPPKOD	HDCO#, HDLOT	Binary Radix	4/18/15 6:29:57 PM	2,102,233	00:00:02
	npidbs 🚹	SBCO#, SBDTTP, SBDVAR, SBDSIZ	Binary Radix	4/20/15 5:45:24 PM	935,515	00:00:01
	BCW1403	W1CO#, W1FWHS, W1FLOC, W1PRD	Binary Radix	4/20/15 7:09:51 AM	876,904	00:00:01
	弥 GAPBNT	BTCO, BTTTYP, BTLOT, BTSTAT	Binary Radix	4/20/15 6:52:32 PM	665,297	00:00:16
	弥 SAPORD	ODCO#, ODCUSH, ODCUS, ODPRD, ODCMD	Binary Radix	4/20/15 4:08:45 AM	644,080	00:00:41
	N SAPORD	ODCO#, ODCUSH, ODCUS, ODPRD, ODSTKT, ODOF	Binary Radix	4/20/15 4:08:45 AM	644,080	00:00:47
	弥 SAPORD	ODCO#, ODCUSH, ODCUS, ODPRD, ODDTSH	Binary Radix	4/20/15 4:08:45 AM	644,080	00:00:40
	n ARPCUS	CUFCUS, CUCO#, CUCUSH, CUCUS	Binary Radix	4/20/15 4:08:45 AM	644,080	00:00:01
Ā	弥 GAPBNT	BTCO, BTBOWN, BTTTYP, BTLOAD, BTBIN, BTLOT,	Binary Radix	4/20/15 6:48:27 PM	539,907	00:00:24
	GAPBNT	BTCO, BTBOWN, BTTTYP, BTLOAD, BTBIN, BTLOT,	Binary Radix	4/20/15 6:48:27 PM	539,907	00:00:23
	😘 GAPALC	LCCO#, LCSUPS, LCSUPL, LCPOOL, LCLOT, LCCCHC	Binary Radix	4/20/15 2:38:28 AM	525,759	00:00:04
	弥 GAPALC	LCCO#, LCCCHG, LCSUPS, LCSUPL, LCPOOL, LCLO1	Binary Radix	4/20/15 2:38:28 AM	525,759	00:00:04
ā	NBPGLR	GLCO#, GLLOT	Binary Radix	4/20/15 2:38:06 AM	507,428	00:00:26
Ā.	E CAMOAO	WILOT	Rinary Dadiy	1/20/15 2:38:06 AM	A0A 108	00.00.01

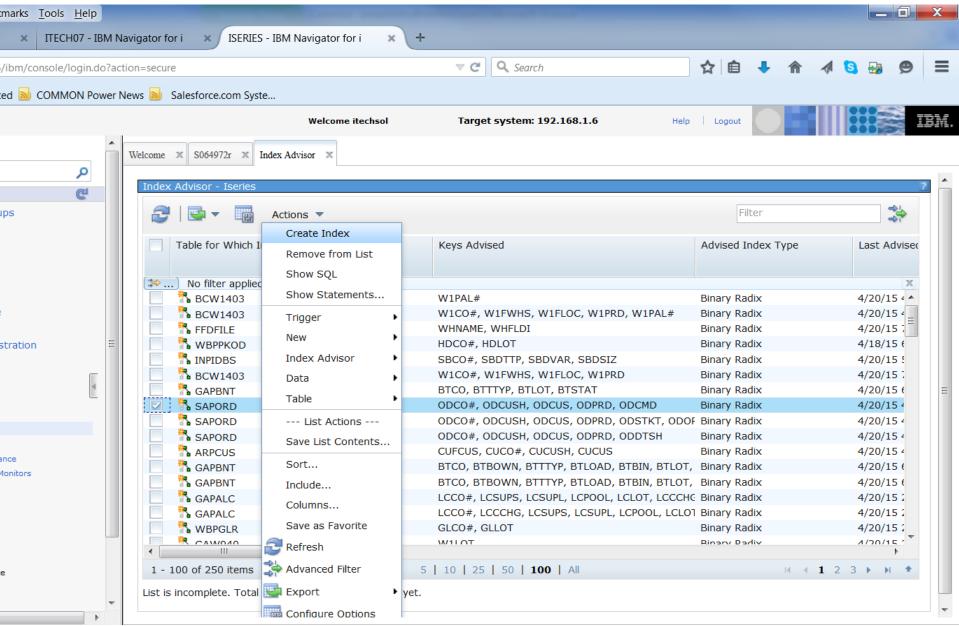
Click Actions then Columns to customize



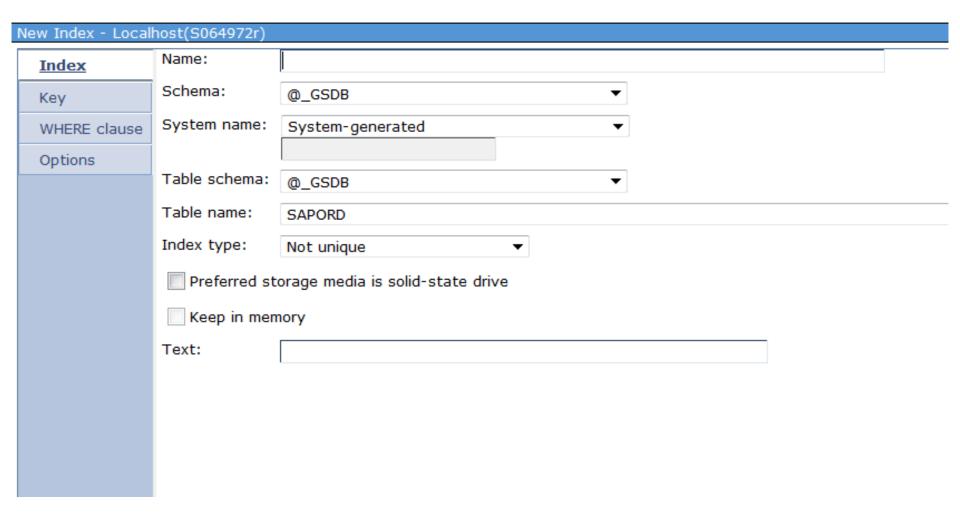
Sorted by Index creation time



Create a Permanent Index



Build our logical file that was "missing"



Show SQL: Easy way to learn SQL

Show SQL

SQL statements:

```
/* Creating index @_GSDB.IATEST01
When creating this index the database connection should have a sort sequence of *HEX. */
CREATE INDEX @_GSDB.IATEST01 ON @_GSDB.SAPORD (ODCO# ASC, ODCUSH ASC, ODCUS ASC, ODPRD ASC, ODCMD ASC) UNIT SSD;
```

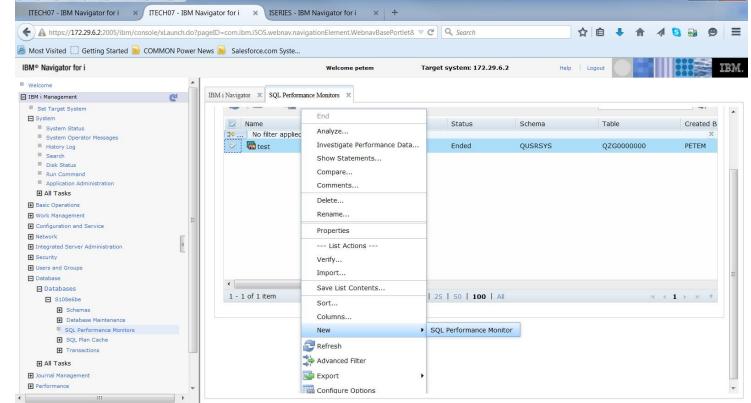
You can generate SQL for most database objects regardless if created by SQL or DDS. If you generate SQL for file that has triggers or constraints, the SQL for those are also generated.

SQL Performance Monitor

- Great tool
- Can generate lots of data Don't forget you started it.
- Find performance problems.
- Be specific when you can
- CPU & Disk Intensive

• Cleanup collection History Bookmarks Tools Help

Wizard

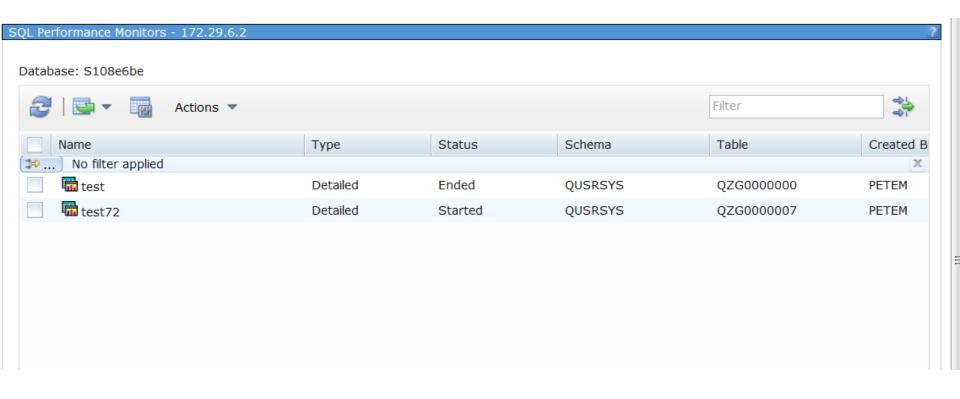


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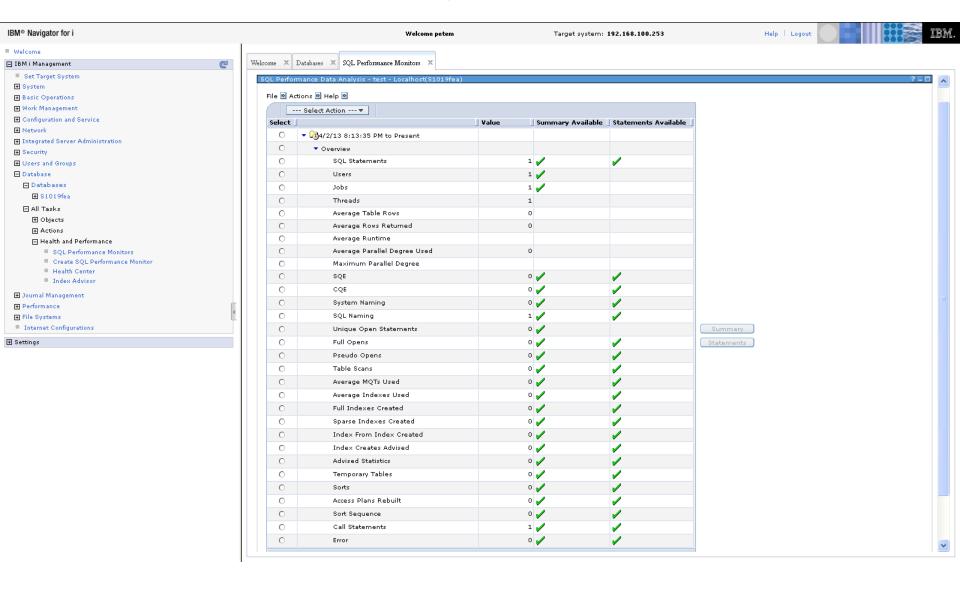
Specify collection criteria

SQL Performance Monitor Wizard - Localhost(S108e6be) To limit the amount of data collected, specify which filters to use. When filters are provided, only statements that specified filter values will be captured. If you would like to limit the amount of data collected specify which filters to use: Initial number of records: Minimum estimated query runtime: Minimum estimated temporary storage: QZDASOINIT Job name: Job user: QUSER Current user or group PETEM profile: Client location: Use entry from below Local port: Always collect information when exceeded Query Governor limits: Statement result or SQL Error or warning code: Client registers Accounting string: Application name:

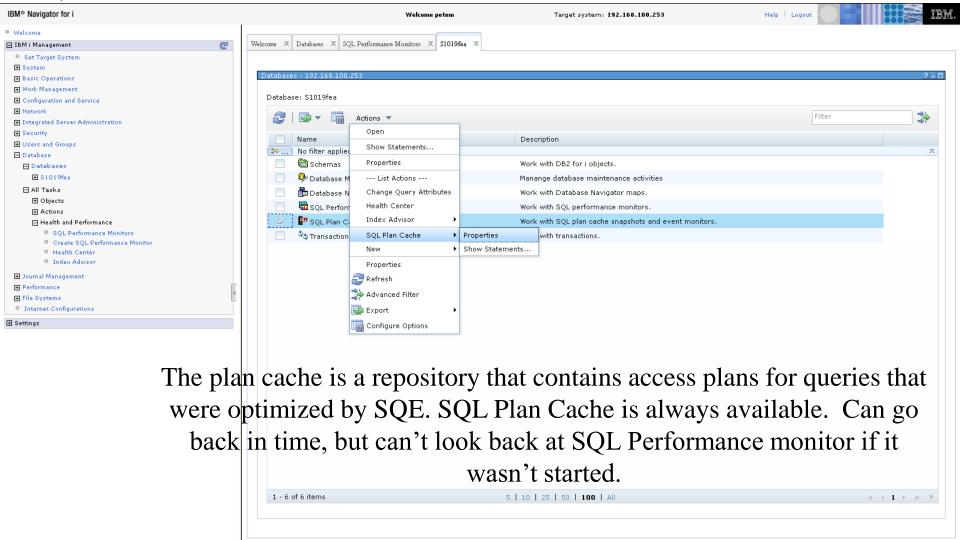
SQL Performance monitor started



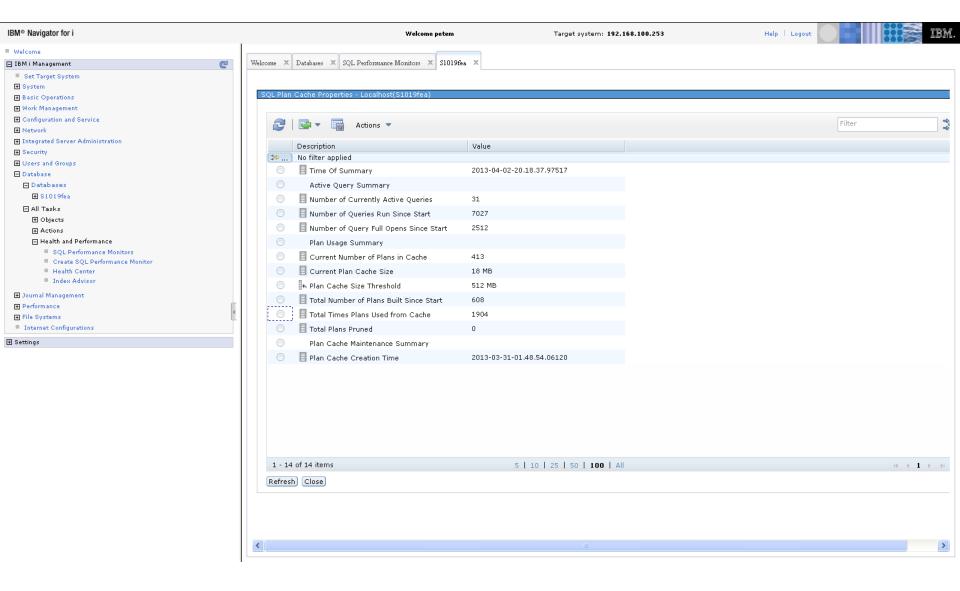
Overview of Collected information: Full presentation



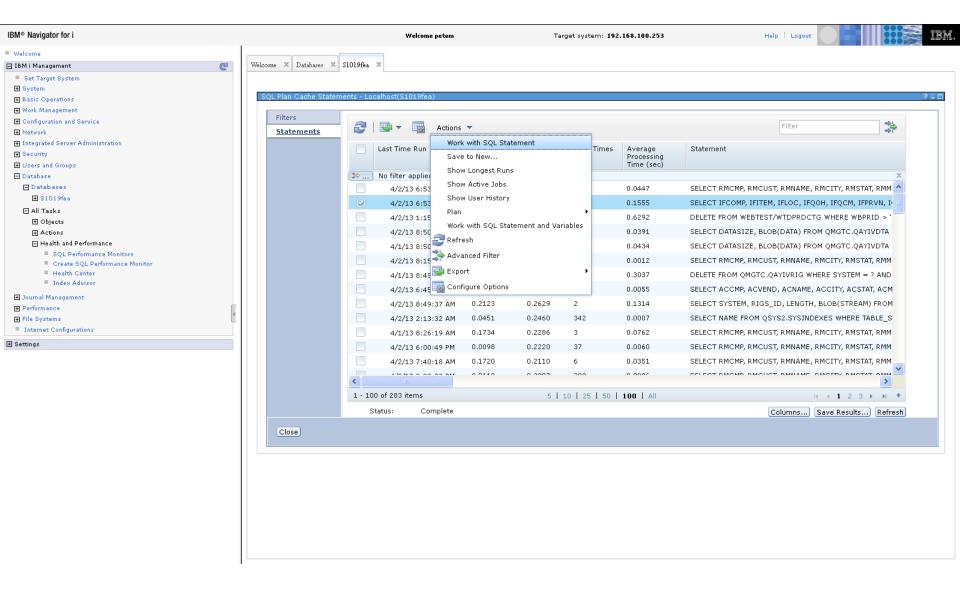
SQL Plan Cache



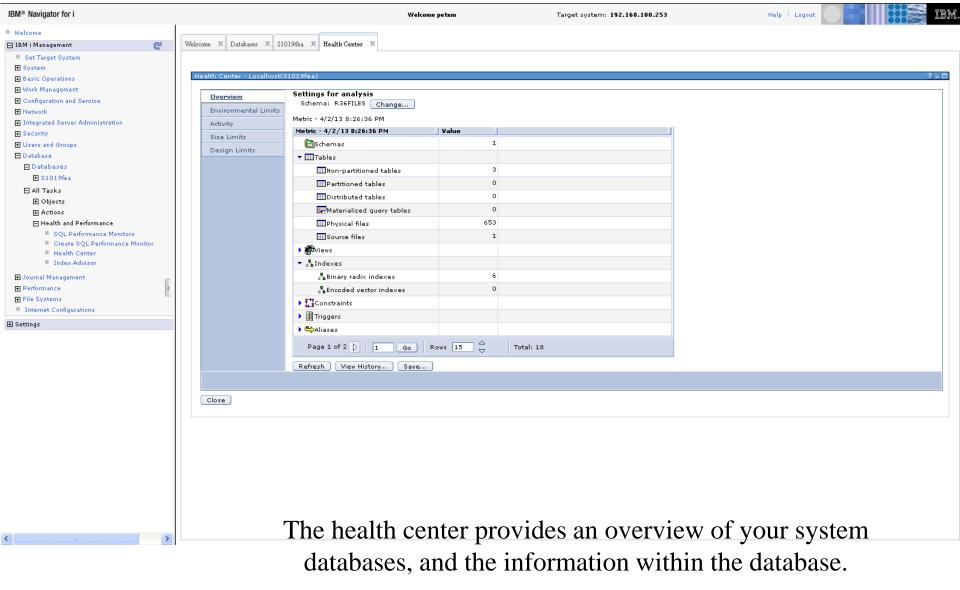
SQL Plan Cache



SQL Plan Cache Statements



Health Center



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Basic Operations

Basic Operations - Itech07.itechsol.com

IBM i Basic Operations allows you to manage messages, printer output, printers, and your own jobs.



Allows you to send a message to other users or message queues.



Allows you to manage your messages.

Printer Output

Allows you to manage printer output.



Allows you to add and configure a new printer for IBM i.



Allows you to manage printers.

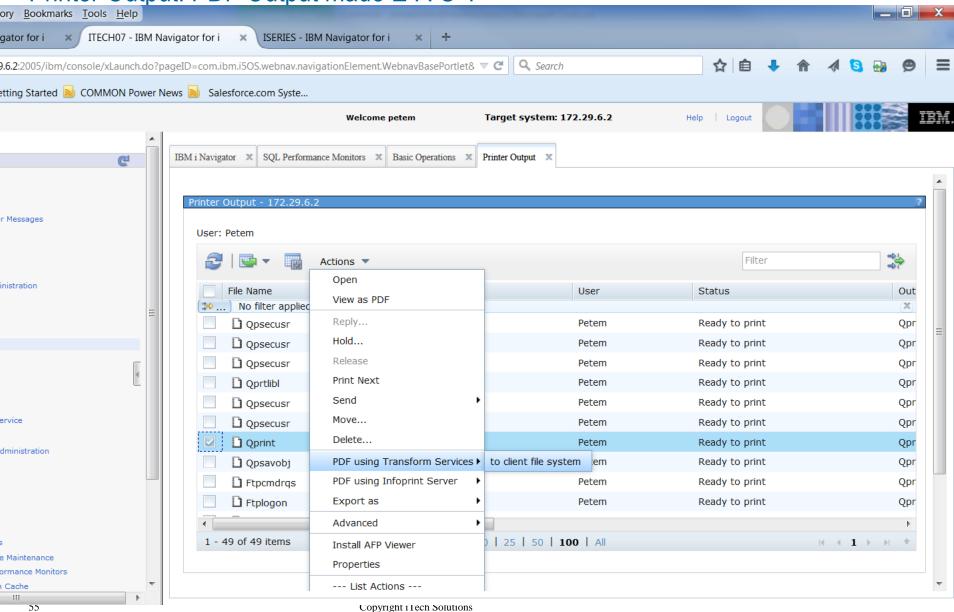


Allows you to manage your jobs.

Close

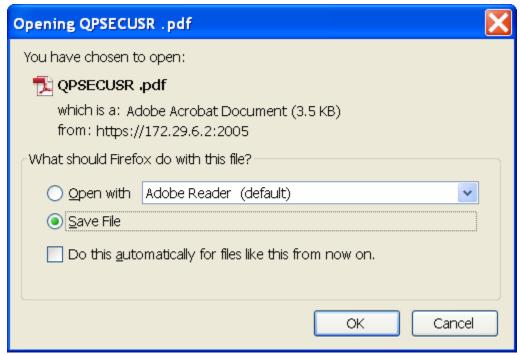
54

Printer Output: PDF Output made E-A-S-Y



PDF output

- Doesn't get easier than this
- Can set up PDF printer
- Can email these printouts



Printer Configuration Wizard

Printer Configuration Wizard



Welcome to the i5/OS Add Printer Wizard for TCP/IP network-attached printers.

This wizard will help you configure and then add a printer to **i5/OS**.

Click Next to continue.

< Back | Next > Finish | Cancel

Printer Configuration Wizard

Printer Configuration Wizard



Location of the printer

You must indicate the location of the printer by specifying its DNS name, its TCP/IP address or its IPP URL. If your printer is not directly connected to the network but is attached to a print server, specify the address of the print server and check the "Printer is connected to a print server" checkbox.

server and check the "Printer is connected to a print server" checkbox.
ODNS name of printer or print server:
Example: OFFICE
TCP/IP address of printer or print server:
Example: 9.5.0.100
OURL of internet printer:
http://
Example: http://server/ipp/printers/office
Printer is connected to a print server
Details

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Configuration

Configuration and Service - Itech07.itechsol.com

IBM i Configuration and Service allows you to perform system configuration.



Allows you to change the system values that determine how your system operates.



Allows you to manage time on your system.



Allows you to manage disk units on your system.



Allows you to manage disk pools on your system.

🔯 Add Disk Unit

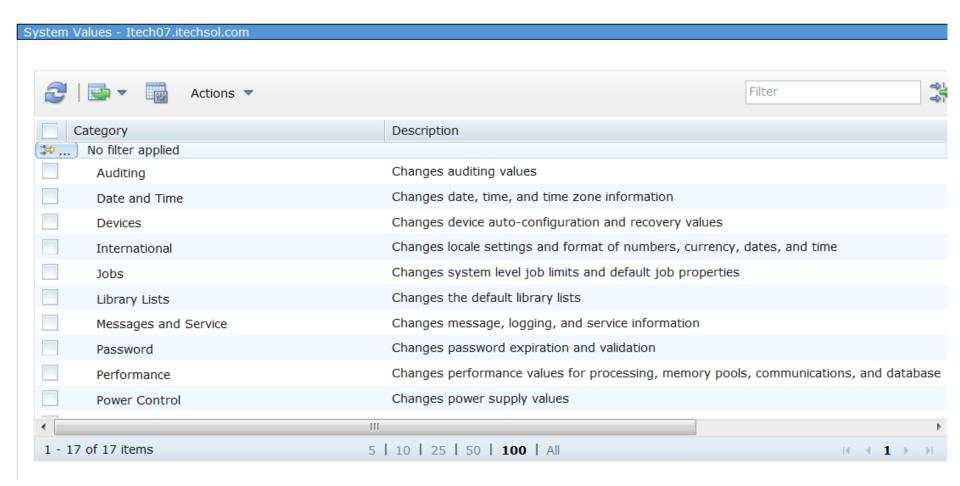
Allows you to add a disk unit to your system.

New Disk Pool

Allows you to create a disk pool on your system.

Close

Configuration: System Values



Configuration: System Values: Performance

Performance System Values - Localhost

General

Memory Pools

Communications

Database

Library Lists

Affinity

- Dynamically adjust job priorities of interactive jobs
- V Dynamically adjust job priorities within priority bands

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Network

Network - Itech07.itechsol.com

IBM i Network Management allows you to manage TCP/IP and internet support.



Allows you to create IP version 4 objects.



Allows you to create IP version 6 objects.



Allows you to manage and configure physical lines.



Allows you to manage and configure TCP/IP servers.



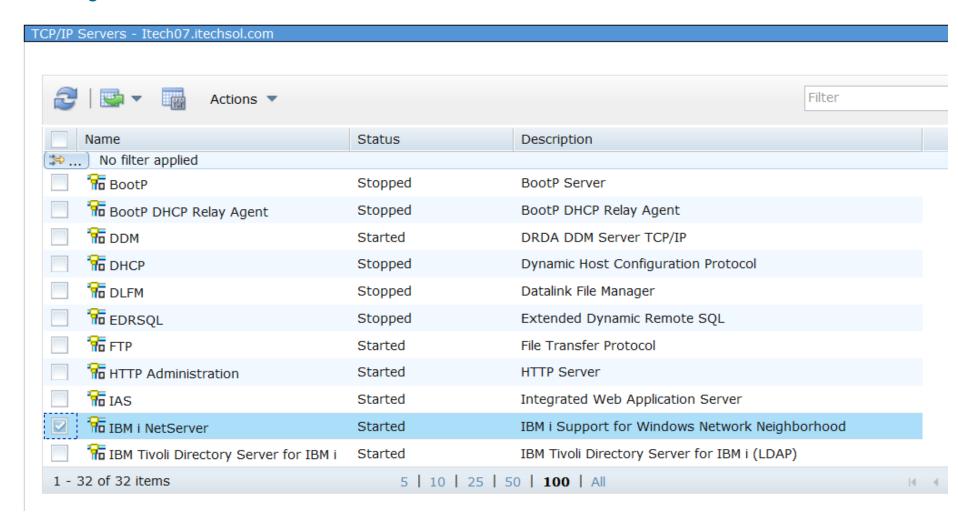
Allows you to manage and configure Domain Name System (DNS) servers.



Allows you to administer the Tivoli Directory Server for i.

Close

Manage TCP Servers



Properties on each TCP/IP Server selected

IBM i NetServer Properties - Itech07.itechsol.com

Subsystems

IBM i Support for Windows Network Neighborhood

General

Advanced

Security

WINS Configuration

Start when TCP/IP is started: Yes

Server name: ITECH07

Allow IBM i NetServer access using the system name: No

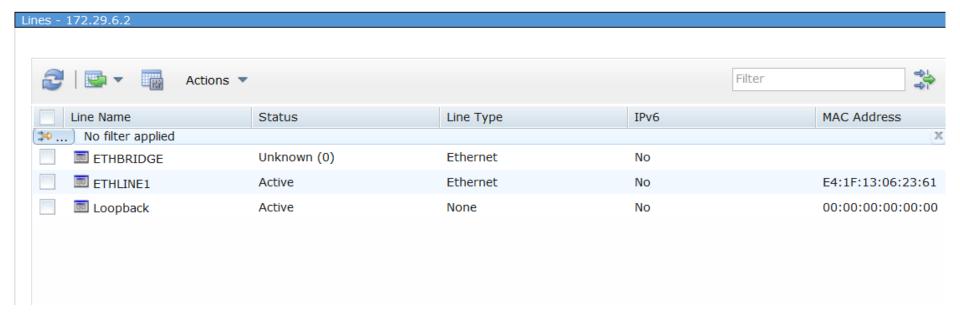
Domain name: ITECHSOL.COM

Description: OS/400

Logon server role: None

Next Start

Manage Lines



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Integrated Server Administration

Integrated Server Administration - Itech07.itechsol.com

Use Integrated Server Administration to manage servers that are hosted by IBM i.



Manage integrated and virtual servers. Also manage IBM i user and group enrollment to Windows servers.



Create a new iSCSI attached server.



Manage virtual storage that IBM i provides to integrated and virtual servers.

New Virtual Storage

Create new virtual storage and assign it to a server.



Manage IBM i network server host adapter (NWSH) configuration objects for IBM i iSCSI target adapters.



Create a new network server host adapter (NWSH) configuration.

Remote Systems

Manage IBM i remote system configuration objects for iSCSI attached servers.

New Remote System Configuration

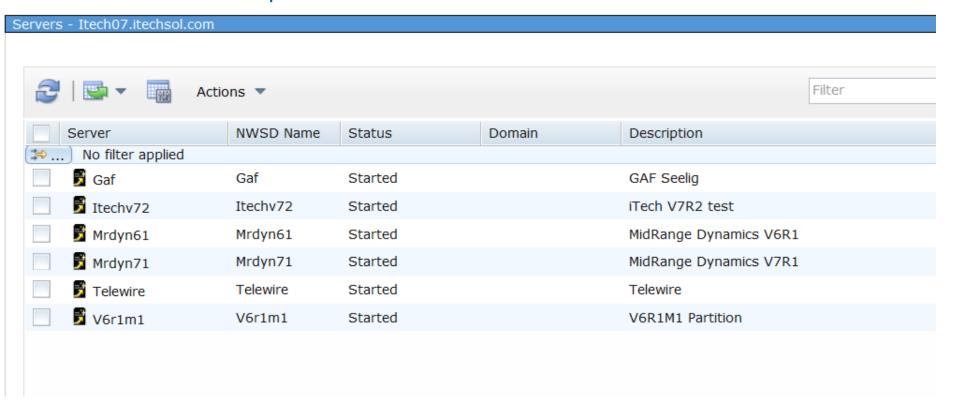
Create a new remote system configuration for iSCSI attached servers.

Service Processors

Manage IBM i service processor configuration objects for iSCSI attached servers.

New Service Processor Configuration

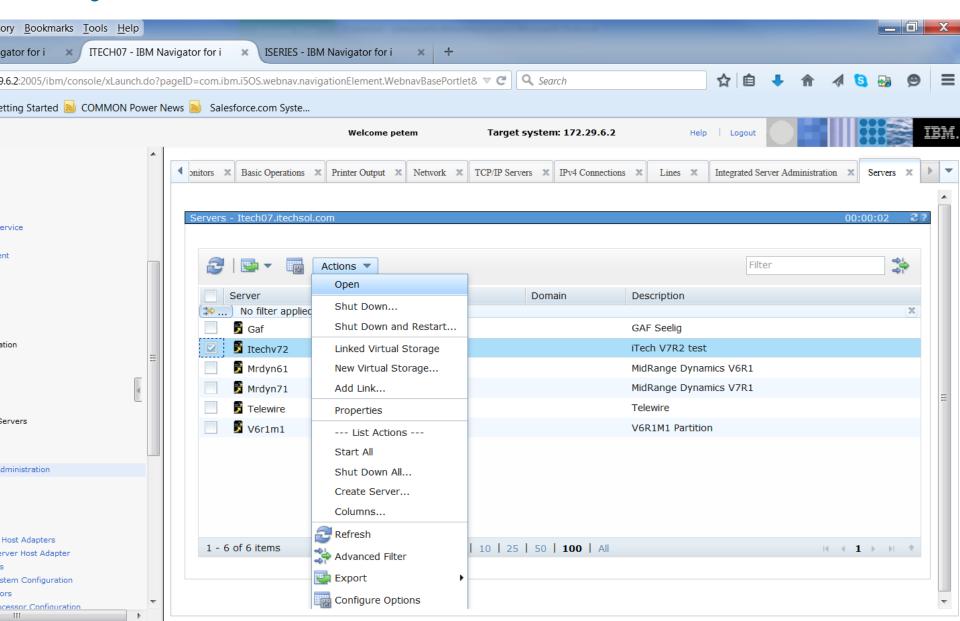
Network Server Descriptions



These are some Virtual IBM i hosted partitions, which this partition is actually hosting. How to build Virtual IBM i partitions can be found in my other session.

You can manage Blade, IXA, IXS, Linux, and hosted partitions.

Management of Servers



Network Server Disks

All Virtual Storage - 172.29.6.2

2 □ -	Actions •				Filter
Storage	GB	% Used	Server	Description	
No filter applied					
Gaf01	34.2	0%	Gaf	GAF Seelig Virtual Disk 01	
Gaf02	17.1	0%	Gaf	GAF Seelig Virtual Disk 02	
Gaf03	17.1	0%	Gaf	GAF Seelig Virtual Disk 03	
Gaf04	17.1	0%	Gaf	GAF Seelig Virtual Disk 04	
Gaf05	17.1	0%	Gaf	GAF Seelig Virtual Disk 05	
☐ Ø Gaf06	17.1	0%	Gaf	GAF Seelig Virtual Disk 06	
☐ ☑ Itech72ls	77.2	0%	Itechv72	ITECH72LS	
Mrdyn6101	34.2	0%	Mrdyn61	MidRange Dynamics V6R1 Disk 1	
Mrdyn6102	34.2	0%	Mrdyn61	MidRange Dynamics V6R1 Disk 2	
Mrdyn7101	34.2	0%	Mrdyn71	Midrange Dynamics Disk 1	
Mrdyn7102	34.2	0%	Mrdyn71	MidRange Dynamics Disk 2	
1 - 23 of 23 items			5 10 25 5	50 100 All	

- System: System Status, Messages, disk status
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Security

Security - Itech07.itechsol.com

IBM i Security allows you to configure and manage security settings for your system.



Allows you to manage authorization lists.



Allows you to group objects with similar security requirements and associate the group with a list of users and user authorities.



Allows you to change permissions for an IBM i object.

Application Administration

Allows you to manage user's authorizations to IBM i Navigator functions.



Cryptographic Services Key Management

Allows you to store and manage master keys and keystores.



Cryptographic Coprocessor

Allows you to configure the cryptographic coprocessor.



Allows you to set up and manage policies that notify you of any intrusions detected against your server.

Close

Intrusion Detection: Could be 3rd Coolest thing

Cool things in Navigator for IBM i to be a Star Administrator

Intrusion Detection Management - localhost

Intrusion detection allows you to set up policies to notify you of any network intrusions that are detected against your system. The different types of polices can also notify you of possible intrusions or areas of concern that may need further review. As an example, if you're scanning for the number of connections through a certain port and the threshold is reached, you may need to verify that the threshold was set correctly for the application or environment.



Intrusion detection notification status: Stopped

Note: Applies to all enabled policies



Intrusion detection system setup.

Manage intrusion detection system properties such as your e-mail addresses and message queue for notification.



Manage intrusion detection policies

Create and manage intrusion detection polices for your system.



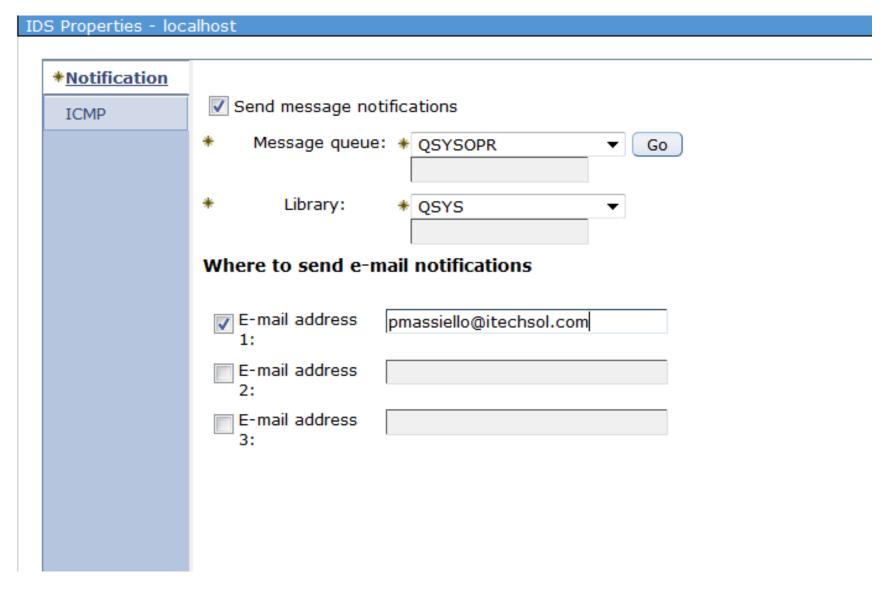
Display intrusion detection events

Display the list of intrusion detection events that have been sent based on your intrusion detection policies.

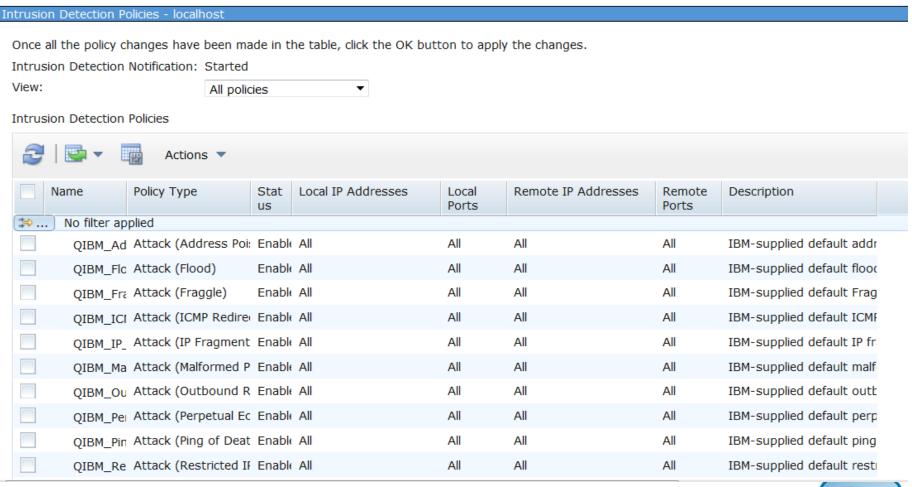
Close

Intrusion detection and prevention system notifies you of attempts to hack into or disrupt your system. ID also monitors if someone is using your system to launch attacks. This uses policies to monitor your system. A must for any company with their machine on the Internet.

Intrusion Detection: Setup Notifications



Intrusion Detection: Setup Wizard





Intrusion Detection: All setup and working

Intrusion Detection Management - localhost

Intrusion detection allows you to set up policies to notify you of any network intrusions that are detected against your system. The different types of polices can also notify you of possible intrusions or areas of concern that may need further review. As an example, if you're scanning for the number of connections through a certain port and the threshold is reached, you may need to verify that the threshold was set correctly for the application or environment.



Intrusion detection notification status: Started Stop

Note: Applies to all enabled policies



Intrusion detection system setup.

Manage intrusion detection system properties such as your e-mail addresses and message queue for notification.



Manage intrusion detection policies

Create and manage intrusion detection polices for your system.

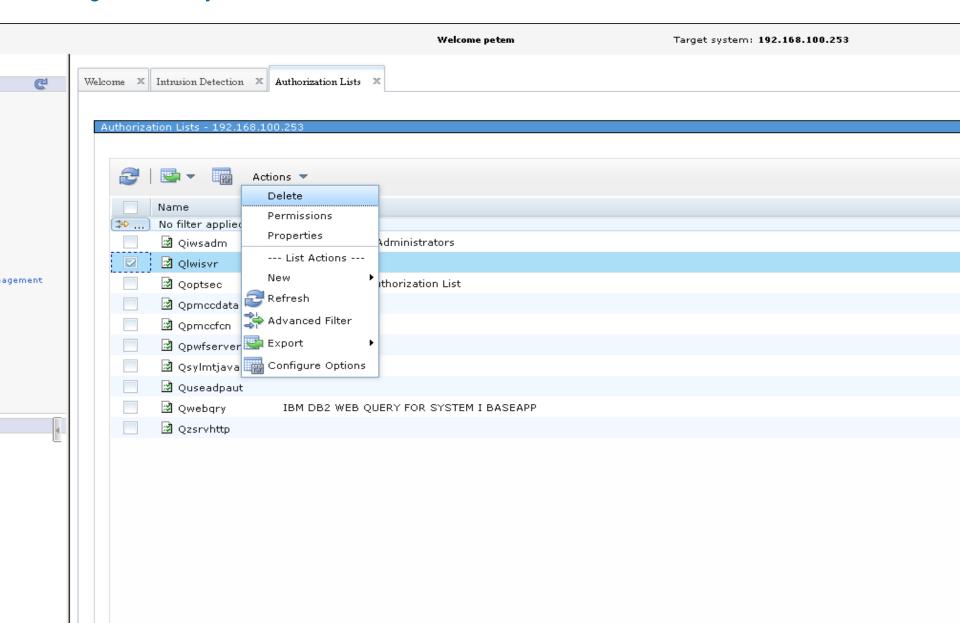


Display intrusion detection events

Display the list of intrusion detection events that have been sent based on your intrusion detection policies.

Close

Manage Authority Lists



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Manage your Users from here

Users and Groups - Itech07.itechsol.com

IBM i User Management allows you to manage your users and groups.



Allows you to manage the users on your server. You can also view the list of user objects for the user.



Allows you to manage any existing users that are not currently in a group.



Allows you to create a new user.



Allows you to change the properties of an existing user.



Allows you to manage any existing groups or create new ones.

Create Group

Allows you to create a new group.

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Journal Management

Journal Management - Itech07.itechsol.com

IBM i Journal Management allows you to manage your journals and journal receivers.



Allows you to manage all journals.

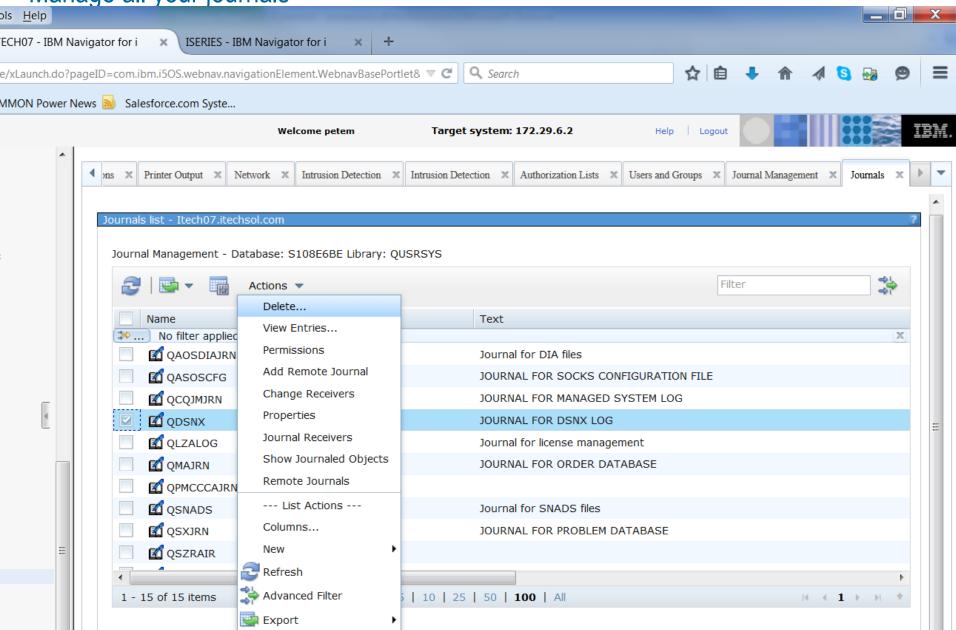


Allows you to create a new journal.

Set Database / Library to Use with Journal Tasks

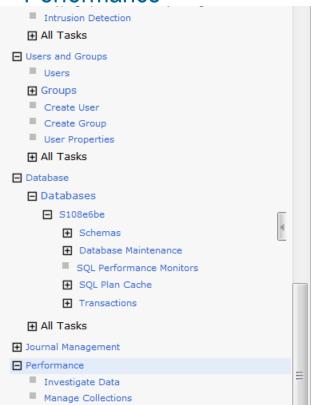
Close

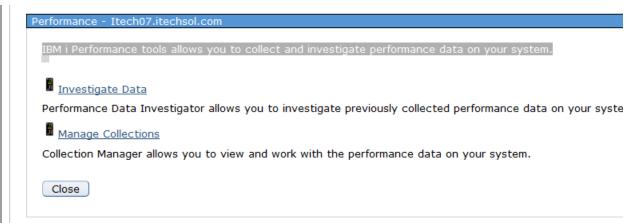
Manage all your journals



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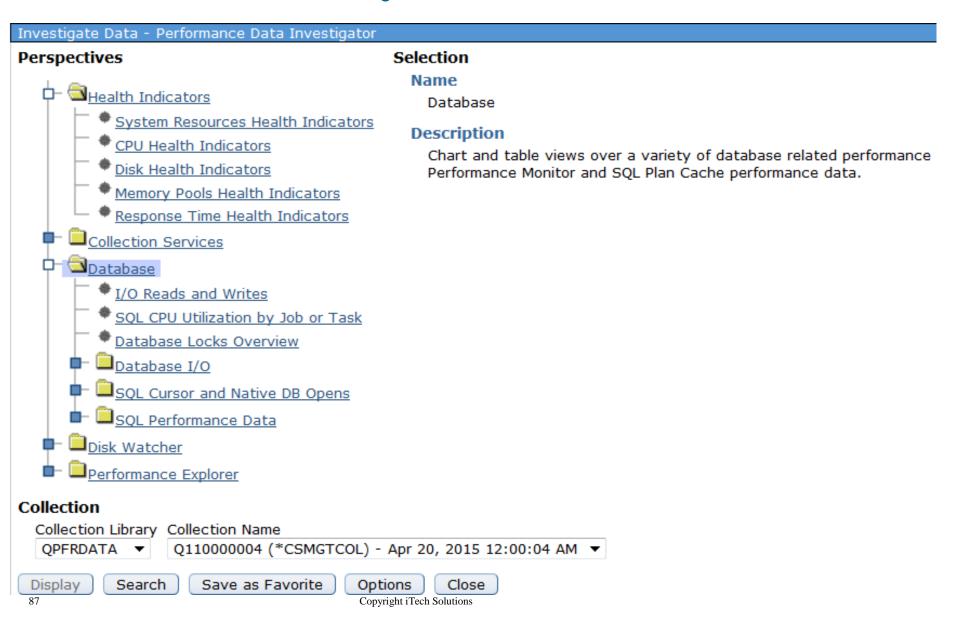
Performance



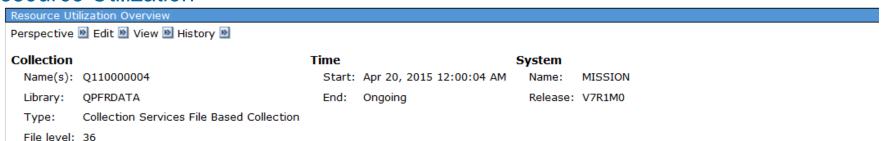


This is the tool to find out what is happening on your machine. We will view just a few of the many graphs available, but you will see the power of the graphs, which is based upon the data of Collection Services.

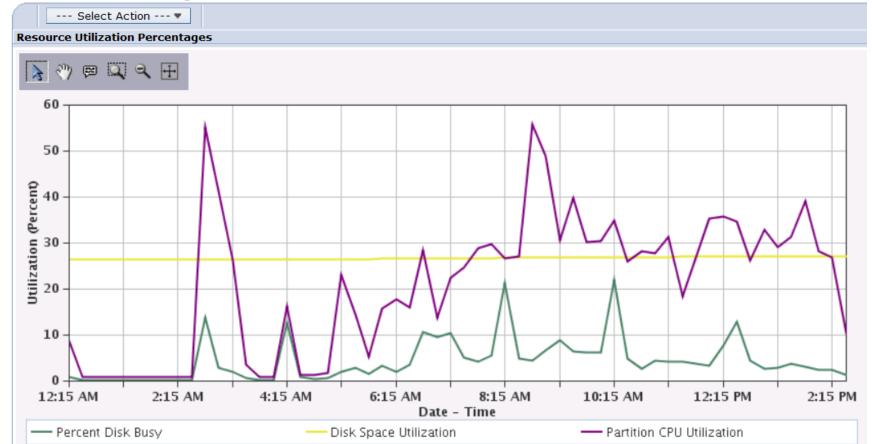
Performance: Collections: Investigate



Resource Utilization



Resource Utilization Percentages



5250 Transactions per second & Average Response time

5250 Display Transactions Overview

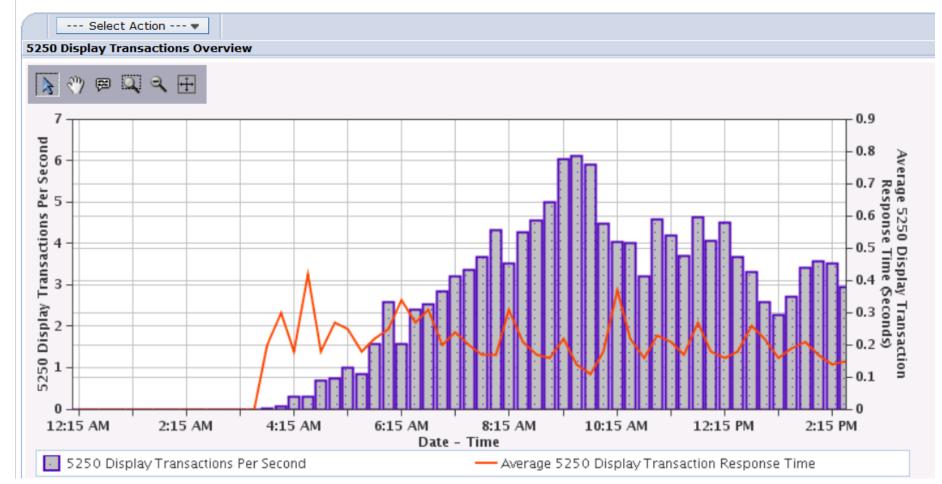
Perspective Edit View History

Collection Time System

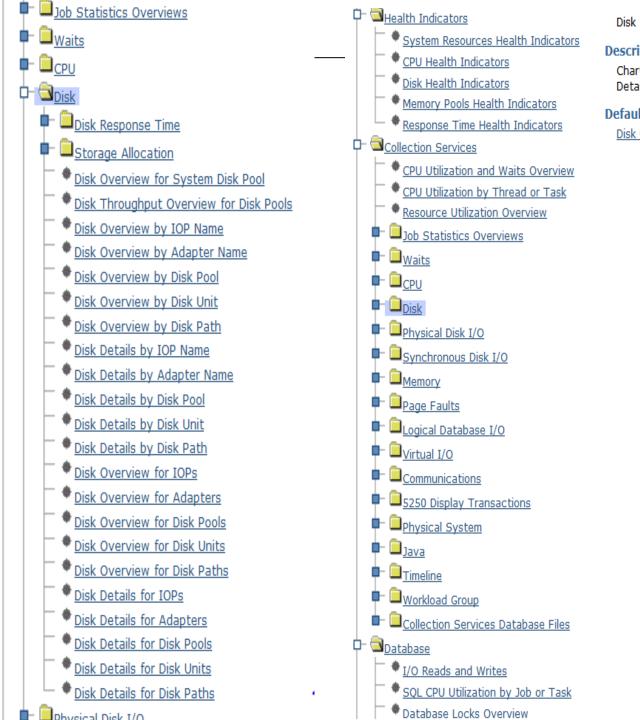
Name(s): Q110000004 Start: Apr 20, 2015 12:00:04 AM Name: MISSION Library: QPFRDATA End: Ongoing Release: V7R1M0

Type: Collection Services File Based Collection

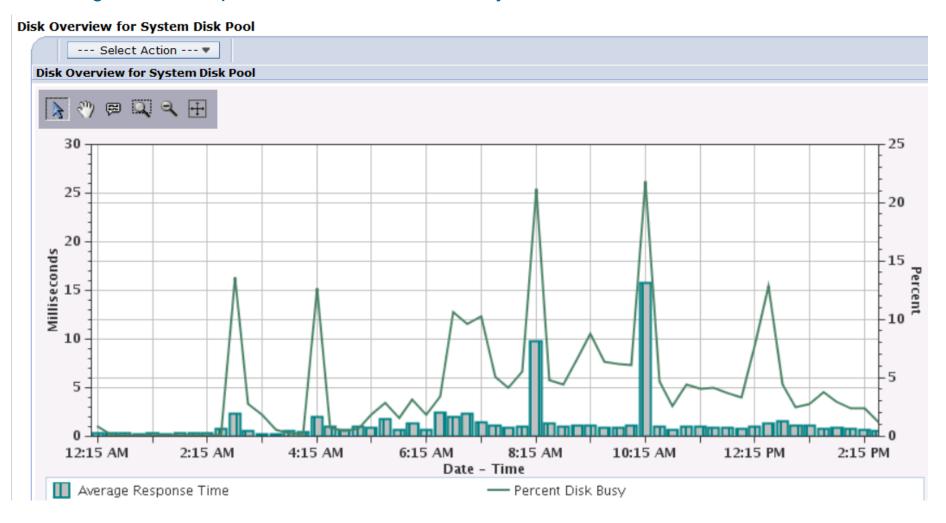
File level: 36



Performance Graphs



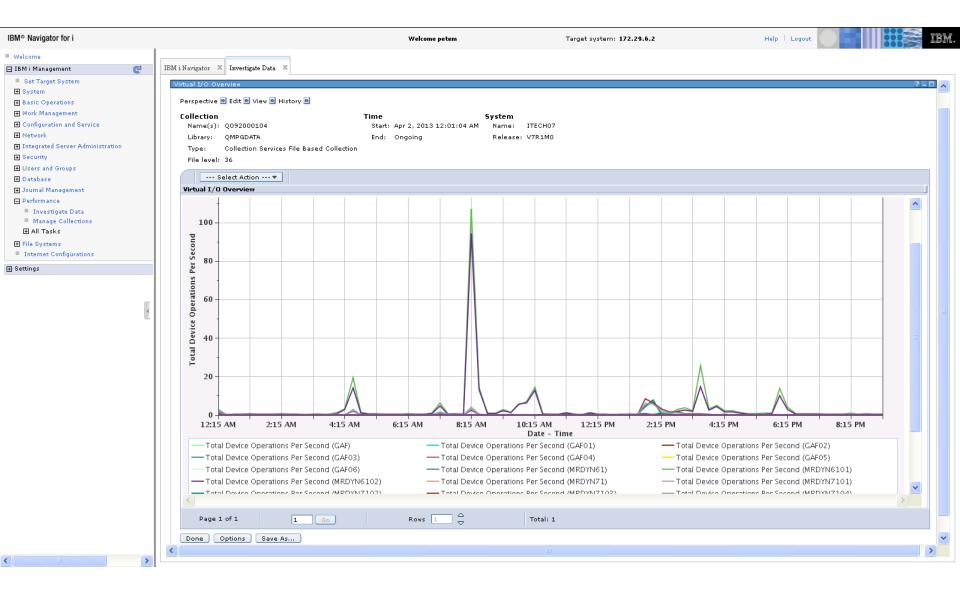
Average Disk Response time & Percent busy



I/O Adapter Utilization

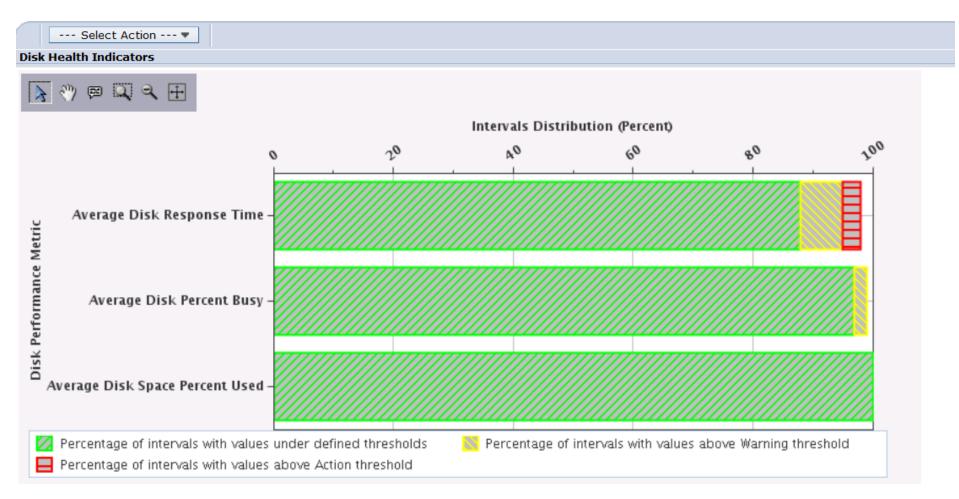


Virtual I/O device Performance



Disk Health

This chart shows Disk health indicators by analyzing all collection time intervals according to the defined thresholds for disk. Use this chart to determine the proportion of intervals where Disk health indicators exceeded the defined thresholds.



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File Systems

File Systems - Iseries.missionpro.com

IBM i File Systems allows you to manage the file system.



Allows you to manage the file system contents, IBM i NetServer file shares, and permissions.



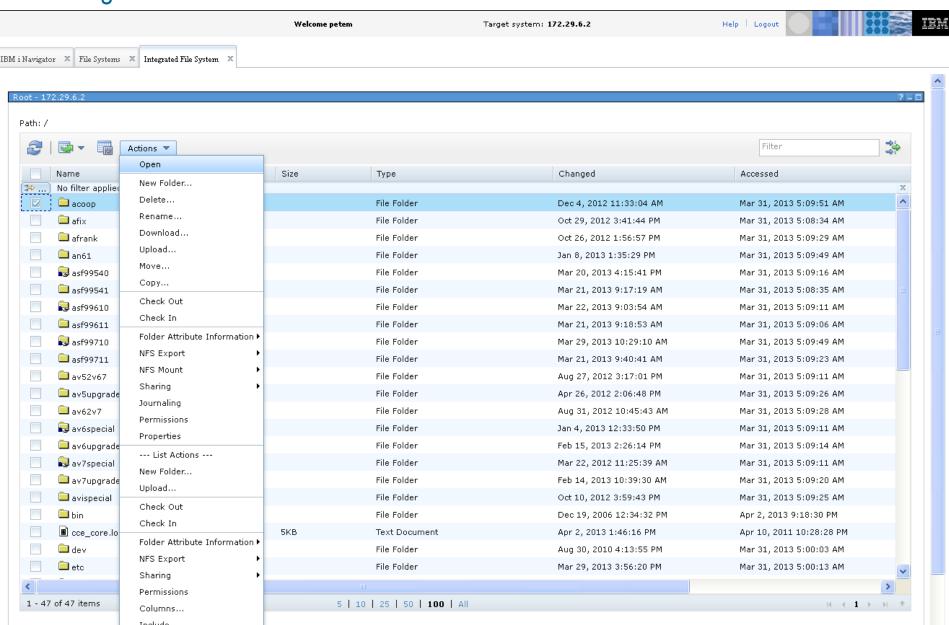
Allows you to manage IBM i NetServer file shares.



Allows you to create an IBM i NetServer file share.

Close

Working with the IFS



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Internet Configuration

Internet Configurations - 192.168.1.6

IBM i Internet Configurations allows you to perform internet configuration tasks.

IBM Web Administration for i

Allows you to manage and configure HTTP servers and application servers.

Digital Certificate Manager

Allows you to create, distribute, and manage Digital Certificates.

IBM IPP Server for i

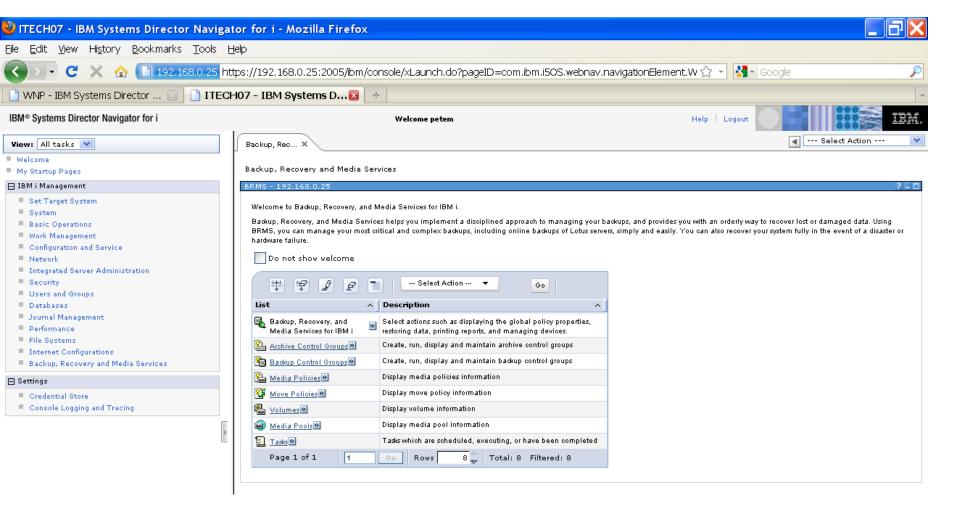
Allows you to configure the IBM IPP Server.

Internet Setup Wizard

Allows you to use the internet setup wizard to configure your internet environment.

Close

Optional BRMS Plug-in



7 Key Points to take home

- This is free and ready to use on 6.1, 7.1, 7.2, & 7.3
- Only need *ADMIN HTTP server running to access it.
- Use your machines IP address and the 2001 port
- Look at Performance graphs first get some bench marks.
- Use Index Advisor to find logical files you can create to improve performance.
- If machine is on the Internet make sure you setup Intrusion Detection.
- Create quick and easy PDFs using the Basic Operations and Output Queues.

Your Turn!





How to contact me:

Pete Massiello

Email: pmassiello@itechsol.com

Twitter: petem59