









 	h	
Same	Different	
Authority checking algorithm	Authority names *RWX vs *CHANGE	
*PUBLIC authority	Ignores QCRTAUT system value	
Can use authorization lists and private authorities	Ignores ownership setting in User profile	
	Ignores adopted authority	
	Need to look in different audit fields	
-		-

Authorities	*RWX	*RW	*RX	*R	*wx	*w	*x
Object							
*OBJMGT							
*OBJEXIST							
*OBJALTER							
*OBJREF							
*AUTLMGT							
Data							
*OBJOPR	x	х	x	x	x	х	x
*READ	x	х	х	x			
*ADD	x	х			х	х	
*UPD	x	х			х	х	
*DLT	x	х					
*EXECUTE	x		х		х		x

*RWX = Read/Write/Execute, Object authorities: *All = (*ALL)	
*RWX = Read/Write/Execute (*CHANGE)	
*RW = Read/Write	
*RX = Read/Execute (*USE)	
*R = Read	
*WX = Write/Execute	
*W = Write	
*X = Execute	
Need:	
 *R to read a file or to list the contents of a directory 	
 *W to write to a file or add a file to a directory 	
• *X to traverse through a directory, e.g., '/home/ciw'	











Change Owner (CHGOWN)	
과입 Session A - [24 x 80]	
File Edit View Communication Actions Window Help	
Change Owner (CHGC	WN)
Type choices, press Enter.	
Object	p
New owner	Name
Revoke current authority *YES	*NO, *YES *NONE *ALL
Symbolic link	*NO, *YES
File Edit View Communication Actions Wi	idow Help
	j & de ∰ ∲ ∲ Change Owner (CHGOWN)
Type choices, press Enter.	
Object	/OSYS.LIB/ProdLib.lib/*.file
New owner	- APPOWN Name
Revoke current authority . Directory subtree	<u>*YES</u> *N0, *YES *all *NDNE, *ALL
Symbolic link	<u>*NO</u> *NO, *YES
F24=More keys	
1912 H	10/03/
	. 0
14 HelpSystems. All rights reserved.	helpsystems



Change Auditing Value (CHGAUD)
Type choices, press Enter.
Object /ProdWebsite/Orders/Credit cards.stmf 🗲
Object auditing value <u>*all</u> *NONE, *USRPRF, *CHANGE, *ALL
Bottom E2-Evit E4-Decemt E5-Defreeb E12-Cancel E12-Mey to use this display
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display



CPYAL	IDJRNE – Copy Audit Jou	rnal Entri	es	
	Copy Audit Jor Copy Audit Jor Type choices, press Enter. Journal entry types + for more values Output file prefix Library Output member options: Member to receive output Replace or add records Journal receiver searched: Starting journal receiver	CO OAUDIT OTEMP *FIRST *REPLACE *ALL *CURRENT *FIRST F12=Cancel	<pre>(CPYAUDJRNE) *ALL, AD, AF, AP, AU, CA Name Name, *CURLIB Name, *FIRST *REPLACE, *ADD Name, *ALL Name, *LIBL, *CURLIB Name, *CURRENT, Name, *LIBL, *CURLIB Date, *FIRST Time More F13=How to use this display 05/033</pre>	
18 HelpSystems, All rights reserved.	Creates a file name	d QAUDIT <mark>CO</mark> i	n QTEMP	helpsystems

		1				
	Dienla	J u Data				
	bispita	Data	width		: 5050	
Position to line		Shift to	column .			
+1+2+	3 + .	4+	5+6	+	.7+	
Timestamp	User	Object	Path			
	profile	type	name			
2015-08-15-20.22.46.503232	CJW	*STMF	/SkyView/e	emailtemp	0/Q132.txt	
2015-08-15-20.22.46.904864	CJW	*SIMF	/SkyView/e	emailtemp	07FRPWINVSGN	
		*SIMF	/SkyView/F	olicy Mi	nder/FRPWIN	1
	CTU		/SkyView/e	emailtemp		
2015-00-15-20.22.47.520024		*STHF *STME	/SkuViou/E	Policu Mi	ndon/EDSVSY	
2015-08-15-20 22 49 769120	C.IN	*STME	/SkuView/e	mailtemr	/0134 tyt	
2015-08-15-20.22.50.061792	C.IM	*STME	/SkuView/e	emailtem	VERCEPRECHG	
2015-08-15-20.22.50.104464	CJW	*STMF	/SkuView/F	olicy Mi	nder/FRCPPR	
2015-09-07-14.15.42.933936	CJ₩	*STMF	/SkyView/F	Policy Mi	nder/Compli	1
2015-11-15-09.42.52.368448	CJ₩	*DIR	/tmp/.com_	_ibm_tool	s_attach/18	
2015-11-15-09.42.52.381520	CJ₩	*STMF	/tmp/.com_	_ibm_tool	s_attach/18	
2015-11-15-09.42.52.418656	CJ₩	*STMF	/tmp/.com_	_ibm_tool	s_attach/18	
2015-11-16-20.11.04.816976	CJW	*DIR	/newdirect	tory		
2015-11-16-20.13.32.268928	CJ₩	*STMF	/cjwtest.c	lat		1
E2-E	E10-1-5+	E20-D4	-64 59	4-5-144	More	
F3=Exit Fi2=Lancel	F19=Lett	F20=R1	gnt F2	21=Sp(1)		
					0.0.10.00	
					037032	
128 1902 - Session successfully started						









Example – Securing the /payroll directory		
Ĩ ि ि 6 2 2 3 3 3 3 3 3 3 3 4 4 5 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Work with Authority		
Object		
- <u>*PUBLIC</u> *RWX X X X X CJW *RWX X X X X		
_ QDIRSRV *X Parameters or command ===>	Bottom	
. F3=Exit F4=Prompt F5=Refresh F9=Retrieve - F11=Display detail data authorities F12=Cancel F24=More keys { (C) COPYRIGHT IBM CORP. 1980, 2015.		
HolsSystems All rights reserved		







Query t	He collection	IN FOR SERVICE1	
	/ /payroll/newstmf /payroll /payroll /payroll	*OBJOPR *EXECUTE *OWNER *OBJEXIST *OBJMGT *OBJOPR *READ *ADD *DLT *UPD *OBJOPR *EXECUTE *OBJOPR *EXECUTE *OBJOPR *ADD *DLT *UPD *EXECUTE *OBJOPR *READ	
28 HelpSystems, All rights reserved.			helpsystems











Tools	for managing IFS authorities - SECTOOLS		
	Print Publicly Auth Objects (PRTPUBAUT)		
	Type choices, press Enter.		
	Object type		
	Search subdirectory <u>*NO</u> *NO, *YES		
	Bottom F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display F24=More keys		
	SECTOOLS – PRTPUBAUT and PRTPVTAUT		
	Note: Use caution when specifying *YES to search subdirectory!		
34 HelpSystems. All rights reserved.		helpsystem	าร



Reduce t	ime for SA	AVSECD	OTA using F	PRTPRFIN	Т		
🖷 🖬 🏠 👲		i 👌 ii 🔋 📀					
	Pr	int Profile	Internals (PRTF	PRFINT)			
Type choi							
Select by Percent f	uli		*PCTFULL *(2.0 0.	JSRPRF, *PCTFUL 01-100.00	L		
	5770551 V7R3M0 Select by . Percentage fu	160422 	•••• *PCTFUI	User Profil LL Percent of	e Internals		
	User Profile ABBY GIBBS TONY ZIVA	Percent Full 2.51 5.13 4.02 3.43	Percent of Owned Object Entries 0.01 2.01 1.57 1.31	Private Authority Entries 2.51 0.10 0.22 2.00	Percent of Authorized User Entries 0.00 3.01 2.23 0.12	Percent of Primary Group Entries 0.00 0.00 0.00 0.00	
			* *	* * * * END	OF LIST	ING ****	
🖷 🖬 🏠 速 速	🗉 🐻 🗉 📖 💥 💰	i i i i i i					
	Work	Objects by	Private Auth (WI	RKOBJPVT)			
Type choi	ces, press Ente						
User prof Object ty	ile pe + for mor		<u>ziva</u> Na <u>*stmf_</u> *1	ame, *CURRENT ALL, *ALRTBL, *	AUTL		
6 HelpSystems. All rights reserved.							helpsystem







Bland Management Briefsstand Briefsstand File System File System Binn Briefs Briefsstand Briefsstand <t< th=""><th>M® Navigator for i Welcome cjw Targ</th><th>jet system: jericho Help Logout</th></t<>	M® Navigator for i Welcome cjw Targ	jet system: jericho Help Logout
© His Systems Integrated File System - Jendon Actions ▼ Search Actions ♥ Search	Journal Management Welcome x /Root home/cjw x /Root home x Root >	c .
Actions * Search Search Actions * Search Search Actions * Search Search Actions * Search	File Systems Integrated File System - Jericho	2 - 0
ind Open x indexervities None Open x indexervities None Delete Type indexervities indexervities Delete Title Folder indexervities indexervities Delete Title Folder indexervities indexervities Delete File Folder indexervities indexervities Delete File Folder indexervities indexervities Upload File Folder indexervities indexervities Copy File Folder indexervities indexervities Folder Attribute Information + File Folder indexervities indexervities indexervities Folder Attribute Information + indexervities indexervities indexervities Folder Attribute In	Root Actions	Search 🔧
Image: State of the image in the second s	bin Open Open	¥
une Delete Pile Folder 0 off Delete Pile Folder 0 off Openioad Pile Folder 0 opt Penissions Pile Folder<	Cover15 Name New Folder.	Туре
if dr if bin.prv Domilad Pile Folder if dr if cover 5.5 Uplad Pile Folder if dr if cover 5.5 Uplad Pile Folder if dr if cover 5.5 Uplad File Folder if cover 5.5 Uplat.transfers Folder Attroube Information • if cover 5.5 Poler Attroube Information • File Folder if cover 5.5 Poler Attroube Information • File Folder if cover 5.5 Ports Ports File Folder if cover 5.5 Ports Permissions File Folder if cover moder Ports Proder Tover 5.5 Pole Attroube 5.5 if cover moder Pole Folder File Folder Pole 5.5	cume Delete Delete	File Folder
Image: Spectra	e dev Download	File Folder
Inde Systems More File Folder I wrst I dev Creck Out File Folder I wrst I dev Check Out File Folder I wrst I dev Check In File Folder I wrst I theip Systems Folder Attribute Information File Folder I wrst I theip Systems NFS Export File Folder I theip Systems Shuring Create Share I theip Systems Permissions File Folder I theip winder Permissions File Folder I theip winder Total: 25 Selected: 1 List Actions	E ftpBanktransfers Upload	File Folder
I same Copy File Folder I sami I dev Copy File Folder I sami I dev Check Out File Folder I dev Check In File Folder I dev I dev Check In I dev I dev File Folder I dev I dev File Folder I dev I dev I dev I dev I dev I	Help Systems Description Move	File Folder
	Depart Copy	File Folder
B segmin Implanktransfers Picker Attribute Information Pile Folder B (untSVR Implanktransfers Picker Attribute Information Pile Folder B (untSVR Implanktransfers NFS Export File Folder B (untSVR Implanktransfers NFS Export File Folder B (untSVR Implanktransfers NFS Export File Folder B (untSVR Implanktransfers Picker Ender B (untSVR Implanktransfers Picker Ender B (untSVR Implanktransfers Picker Ender B (untSVR) Implanktransfers Picker Ender	B awi Check Out	File Folder
Gram Image: Help Systems NFS Export Pile Folder Image: Basik Image: Basik Image: Basik Image: Basik Image: Bas	awpmi Dider Attri	bute Information File Folder
B (CNR50W Implementation NMFS Mount File Edder B (sold) Implementation Sharing Create Sharing B (sold) Implementation Journaling Provider B (sold) Implementation Provider Provider B (sold) Implementation Provider Provider B (sold) Total: 25 Selected: 1 Total: 25 Sol 100 All +	E ciw NFS Export	File Folder
Ib Sharing Create Share I at the state s	E ssisk I home NFS Mount	File Folder
B retrievedo Dournaming File Folder B retrievedo Properties File Folder D (08M Total: 25 Selected: 1 **** List Actions **** 5 10 25 50 100 All +	Ib Ib Ib Ib	Create Share
B reference Properties Properties B reference Total: 25 Selected: 1 **** List Actions *** 5 10 25 50 100 All +	opt opt Permissions	File Folder
Total: 25 Selected: 1 Total: 25 Selected: 1	Properties	Tile Tabler
	QIBM Total: 25 Selected: 1 List Activ	ons 5 10 25 50 100 All +
QSR New Folder	QSR New Folder	
New Folder	partner400 policy minder COM COM	ons 5 10 25 50 100 All +





IBM® Navigator for i			Welcome cjw	Target syste	m: r2d2		
Configuration and Service Network ToP/IP Configuration Servers TOP/IP Servers IBM Access Servers	Welcom	x TCP/IP Servers	File Shares × File Shares × Actions ▼				
DNS Servers User-Defined Servers		No filter applied Name	Path	Description	Current Users		
Remote Access Services IP Policies Enterprise Identity Mapping		4 Qdirsrv	/QIBM/ProdData/OS400/DirSrv	OS/400 Directory Services	0		
All Tasks Integrated Server Administration		4 Acs	/ACS	Access Client Solutions	0		
Security Users and Groups		Awshare R2d2	/home/aw1 /SkyView	AW1 home folder share	0		
Database Journal Management Performance		C Share1	/SkyView /home/aw1	Test Share	0		
File Systems Integrated File System Root		Arw1	/ /arw1	tesitng moves	0		
QOpenSys QDLS OSYS.LB	Root Properties - R2	12 d2					2.0
CFileSvr.400	General Text Conversion	C D	*** ** 2 2 1	Select Action	• •		
Goto Integrated File System Folder Create Integrated File System Folder	Sessions	Select Work	station Name	Cjw Time Active	Time Idle		0
File Shares		Page 1 of 1	1 Go	Rows 1 🖧 T	otal: 1 Filtered: 1 Se	elected: 0	
		Refresh					

IBM® Navigator for i			Welcome cjw
WelcomeDashboard	Wel	come X TCP/IP Servers X	
Search Task		TCP/IP Servers - R2d2	
 ☐ IBM i Management ☐ Target Systems and Groups ☐ Favorites ☐ System ④ Monitors ☐ Basic Operations ⊡ Work Management ④ Configuration and Service ☐ Network ⓓ TCP/IP Configuration ⊟ Servers ■ TCP/IP Servers ■ IBM I Access Servers 	C	Image: Second	Actions Start Stop Server Jobs Reset and Start Configuration Disabled User IDs Status Properties Save as Favorite Refresh Export
DNS Servers User-Defined Servers Remote Access Services		HTTP Administration The IAS	Print Configure Options

NetServe	er Guest Profile - Properties
Welcome X TCP/IP Ser IBM i NetServer Prop	vers x erties - R2d2
Subsystems General Advanced <u>Security</u> WINS Configurati	Guest user ID: Authentication method: Encrypted passwords Allow authentication with LAN Manager password hash: No Require clients to sign requests: Optional IBM i NetServer Properties - R2d2
	IBM i NetServer Security Next Start - R2d2 IBM i Support for Windows Network Neighborhood Guest user ID: GUEST *Authentication method: Encrypted passwords Allow authentication with LAN Manager password hash Require clients to sign requests: Optional OK Cancel
60 HelpSystems. All rights reserved.	helpsystems

Welcome		Welcome X TCP/IP Servers X		
Dashboard				
Search Task	ρ	TCP/IP Servers - R2d2		
IBM i Management	C		Actions 🔻	
Target Systems and Groups		>> No filter applied	Start	
Favorites		Name	Stop	
System		T BootP	Server Jobs	
Basic Operations			Reset and Start	
Work Management		BOOLP DHCP Relay Agent	Configuration	
Configuration and Service		To DDM	Status	
Network		The DHCP	Properties	
TCP/IP Configuration		E 🔁 🔁 DLFM	Save as Favorite	
Servers		Redriged for the second sec	Refresh	
IBM i Access Servers		🔲 寣 FTP	Evport	
= DNS Servers		HTTP Administration		
User-Defined Servers	L.	Se las	Print •	
Remote Access Services	E		Configure Options	
 Only disabled NetServer Message CPIB682 sent to 	profile NOT D QSYSOPR fo	IBM i profile. or disabled NetServer	users	





