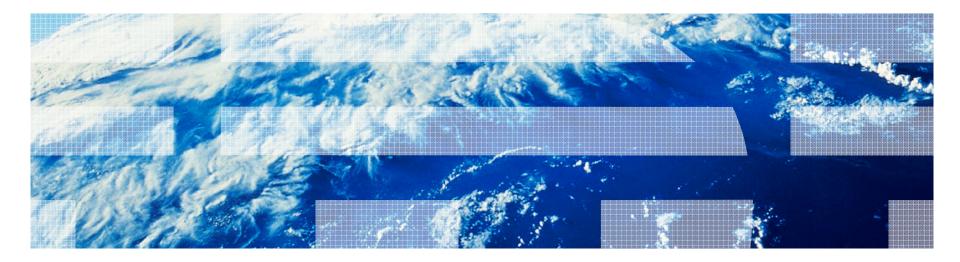


IBM Tivoli zSecure Suite What is new in zSecure 1.11



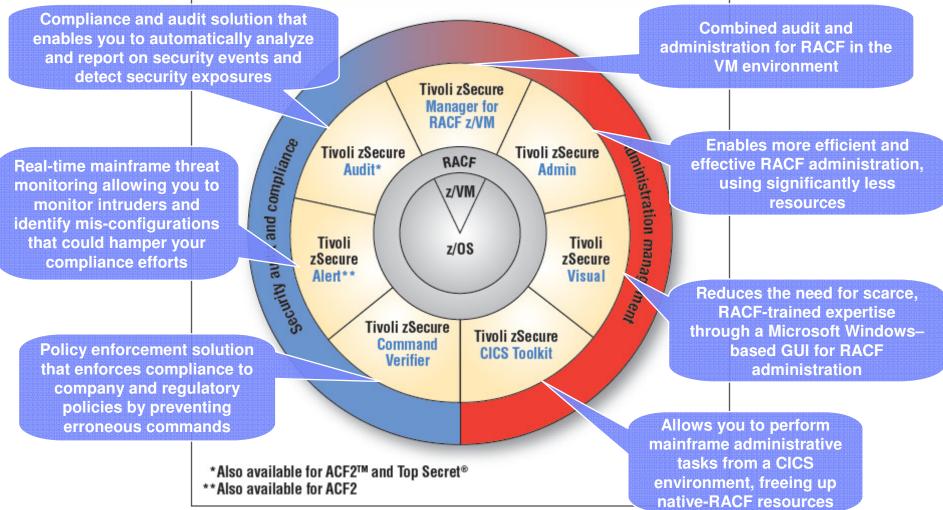


Agenda

- Announcement November 3rd, 2009
 - z/OS, RACF, ACF2, TSS functions only
 - zSecure Manager for RACF/zVM still at 1.8.1 level
- New functions
- Availability and support
- Suggestions for enhancements
- Useful resources
- Education
- Q&A

IBM Tivoli zSecure Suite

Tivoli zSecure suite



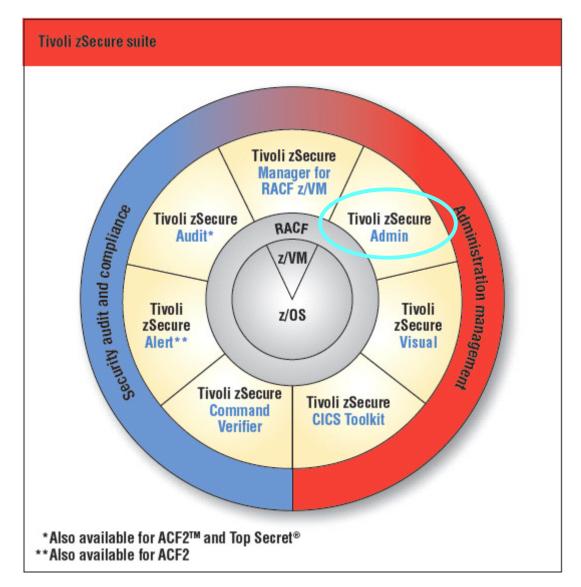
Note: ACF2 and Top Secret are either registered trademarks or trademarks of CA, Inc. or one of its subsidiaries.



zSecure 1.11 new functions and features

- New functions
 - Access Monitor for RACF
 - Finding RACF profiles with values in segment fields
 - TCPIP stack configuration
 - Support and Reporting of SMF records extended
 - Extended monitoring
 - z/OS and ACF2 currency
 - Globalization
 - and more

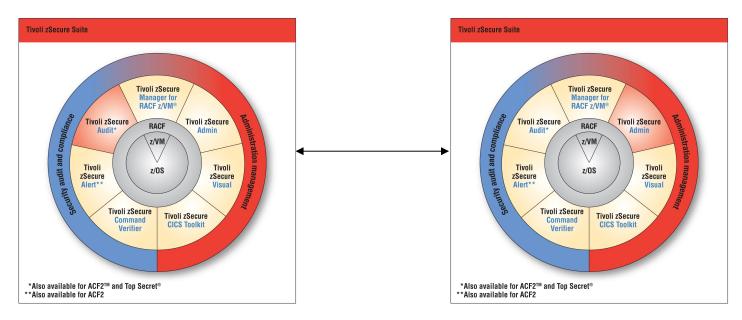
Access Monitor for RACF





RACF database cleanup: Conventional methods

- SMF reporting of successful access
 - Typically not logged to SMF
 - Huge volume of data
 - How to correlate with RACF profiles?
- RACF profile analysis
 - How to see if a PERMIT is still used?
 - Access count works for discrete, but not generic profiles
 - Lastuse date for users
 - Obsolete permits (group or user no longer in RACF)





zSecure Admin: Access Monitor for RACF

- New functionality in zSecure Admin version 1.11
 - Runs as started task C2PACMON
- Collects information about RACF decisions
 - Date, time, userid, class, resource, profile, intent, RACF decision, flags
 - Saved into an Access Monitor file
- Consolidates into daily, monthly, yearly summaries
 - One line per unique set of value
 - Same userid, class, resource, profile, etc
 - · Date and time of most recent event, count of events
 - Size is manageable because of consolidation



Analysis of Access Monitor files

- New menu option in zSecure Admin
 - AM Access Monitor
 - Analyzes Access Monitor file(s)
 - Which resources has a specific user accessed
 - In last month, in last year?
 - When was last access?
 - Who has accessed a given resource?



Access Analysis menu

	- [32 x 80]				
Menu	0ptions]	[nfo	Commands	Setup
		zSecu	ure Suit	te - Access	
1 2 3 4 5 6 7 8 9	Access Compare Permit usage Connect usage Profile usage Member usage Global usage Remove Cleanup	Compare Relate Relate Relate Relate Relate Remove	e monito permit connect profilo member Global unused	usage summa t usage summ e usage summ usage summa usage summa profiles an	profile versus current database ry to current RACF database ary to current RACF database ry to current RACF database d authorizations nd general resource profiles
Option	===>				
M <u>A</u> a	-				32/01

Access summary by user

IBM Tivoli zSecure ACCESS summary All access monitor records 1 s elapsed, 1.1 s CPU 3 Feb 2010 15:30 Occurrence Userid Name First occurrence Last occurrence 1362 170ec2009 21:57 30Jan2010 00:07 4 180ec2009 17:40 180ec2009 17:41 37 *BYPASS* 170ec2009 20:06 19Jan2010 09:05 2654 CKR 170ec2009 20:06 19Jan2010 09:05 2654 CKR 170ec2009 20:06 19Jan2010 09:05 480 FS 170ec2009 20:06 19Jan2010 09:06 48 DFS 170ec2009 20:06 24Jan2010 09:36 48 DFS 170ec2009 20:06 24Jan2010 09:36 16 FTPD 250ec2009 14:30 250ec2009 14:48 14180 GEOFF GEOFF ROUSELL MAIN 170ec2009 20:06 24Jan2010 02:59 7528 LENNIE LENNIE DYMOKE-BRADSH 210ec2009 11:43 220ec2009 11:45 1904 LENNIE2 LENNIE DYMOKE-BRADSH 210ec2009 11:43 220ec2009 11:45 104678 PEASEJ JAMIE PEASE - CV ID 170ec2009 18:24 20ec101 13:21 104678 PEASEJ JAMIE PEASE - VIS ID 170ec2009 11:45 210ec2009 11:45 104678 PEASEJ JAMIE PEASE - VIS ID 170ec2009 11:45 210ec2009 11:45 104678 PEASEJ JAMIE PEASE - VIS ID 170ec2009 20:44 8Jan2010 13:21 1016 PEASEJ2 JAMIE PEASE - VIS ID 170ec2009 20:44 8Jan2010 13:21 1016	Session A - [32 x 80)]					
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183 STSGJJB JO JOHNSTON 6Jan2010 10:28 6Jan2010 10:28 59826 SYSSTC SYSTEM STC 17Dec2009 20:06 30Jan2010 22:59 12 SYS1 17Dec2009 20:07 19Jan2010 09:06 Command ===>	48	DFS					
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183 STSGJJB JO JOHNSTON 6Jan2010 10:28 6Jan2010 10:28 59826 SYSSTC SYSTEM STC 17Dec2009 20:06 30Jan2010 22:59 12 SYS1 17Dec2009 20:07 19Jan2010 09:06 Command ===>	30276						
183 STSGJJB JO JOHNSTON 6Jan2010 10:28 6Jan2010 10:28 59826 SYSSTC SYSTEM STC 17Dec2009 20:06 30Jan2010 22:59 12 SYS1 17Dec2009 20:07 19Jan2010 09:06 Command ===>	4104						
183 STSGJJB JO JOHNSTON 6Jan2010 10:28 6Jan2010 10:28 59826 SYSSTC SYSTEM STC 17Dec2009 20:06 30Jan2010 22:59 12 SYS1 17Dec2009 20:07 19Jan2010 09:06 Command ===>	228						
183 STSGJJB JO JOHNSTON 6Jan2010 10:28 6Jan2010 10:28 59826 SYSSTC SYSTEM STC 17Dec2009 20:06 30Jan2010 22:59 12 SYS1 17Dec2009 20:07 19Jan2010 09:06 Command ===>	6551						
183 STSGJJB JO JOHNSTON 6Jan2010 10:28 6Jan2010 10:28 59826 SYSSTC SYSTEM STC 17Dec2009 20:06 30Jan2010 22:59 12 SYS1 17Dec2009 20:07 19Jan2010 09:06 Command ===>	136						
183 STSGJJB JO JOHNSTON 6Jan2010 10:28 6Jan2010 10:28 59826 SYSSTC SYSTEM STC 17Dec2009 20:06 30Jan2010 22:59 12 SYS1 17Dec2009 20:07 19Jan2010 09:06 Command ===>	6						
59826 SYSTEM STC 17Dec2009 20:06 30Jan2010 22:59 12 SYS1 17Dec2009 20:07 19Jan2010 09:06 Command ===>	183						
12 SYS1 17Dec2009 20:07 19Jan2010 09:06 Command ===> Scroll===> <u>CSR</u>							
Command ===>							
	MA a						32/015

Access summary for a user

DI Session A - [32 x 80	0]				
IBM Tivoli zSo	ecure ACCESS si	ummary			Line 1 of 21
All access mo	nitor records	-		3 Feb 2010 15:3	30
Occurrence	Userid Name		Fii	rst occurrenc La	st occurrence
30276	RMASO ROGE	NASON .	221	Dec2009 10:46 28	Jan2010 13:50
Occurrence	Intent Type	AccRC			
46	READ Fast	0			
0ccurrence					
	TCICSTRN				
0ccurrence					
3	RTMM				
2	TOOLKIT.ADGR				
2	TOOLKIT.ADUS				
2	TOOLKIT.ALGR				
2	TOOLKIT.AUSR				
2	TOOLKIT.CONN				
2	TOOLKIT.DELD				
2	TOOLKIT.DELG				
2	TOOLKIT.DELU				
2	TOOLKIT.LDSD				
2					
2					
2	TOOLKIT.PEMT				
2	TOOLKIT.RACL				
2 	TOOLKIT.RALT				
2	TOOLKIT.RDEF				
2	TOOLKIT.RDEL				
2	TOOLKIT.REMV				
2	TOOLKIT.RLST				
²	TOOLKIT.SPEC				
	TOOLKIT.USRL				
**************************************	*****	**** Bottom	of Data	*****	**************************************
M <u>A</u> a					10/002
A Province of the second se					



Analysis of Access Monitor files

- Compare monitored access with RACF database
 - Monitored access is less than access in RACF
 - Identify candidate permits for removal
 - Monitored access is greater than access in RACF
 - Simulate if past access will fail after RACF cleanup



Allowed in Access Monitor, now denied in RACF

Session A - [32 x 80]	
ACCESS summary simulated access is less	Line 1 of 5
All access monitor records	3 Feb 2010 15:42
Occurrence Userid Name	First occurrenc Last occurrence
22 PEASEJ JAMIE PEASE GB TIV	17Dec2009 20:30 12Jan2010 18:31
Occurrence Intent Type AccRC SimRC	
2 DEFDELET Define 0 4	
2 ALTER Auth 0 4	
<u>s</u> 13 ALTER Auth 0 8	
3 ALTER Auth 4 8	
2 DEFCREAT Define 0 4	
**************************************	Data ***********************************
Command ===>	Sepeller-> CSD
	Scroll===> <u>CSR</u>
M <u>A</u> a	08/003
10	© 2010 IDM Corporation

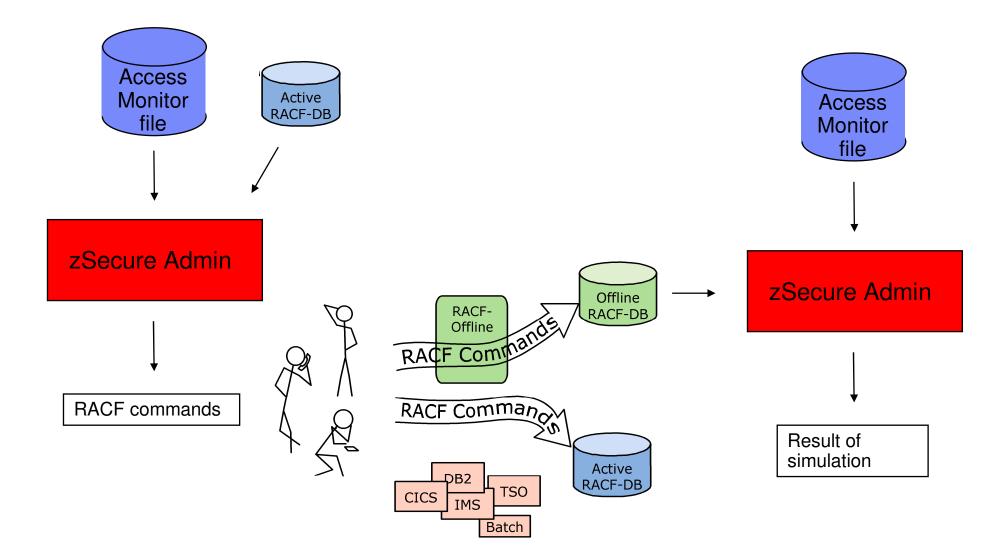
© 2010 IBM Corporation

Access list of a profile, with usage info

	ssion A - [32									
					, by class	s complex/			Line 1	of 15
ค.เ	access					3	Feb 201	0 16:29		
	Allowed			LastUse		Complex				
	303	422	1013	30Jan10	FACILITY					
	Allowed	Deny		LastUse		Profile				
	31	5	0	19Jan10	DISCRETE	BPX.DAEMO	N			
	Allowed	Deny	Unexp	LastUse		Access	Used	Failed	Red RdM	Name
	0	4	0	19Jan10	-UACC-	NONE		READ	No	
	0	0	0		CBLDAP	READ			No	
	Θ	0	0		CMNSRV	<u>READ</u>			No	NETCO
	0	0	0		DASUSER	<u>READ</u>			No	
	0	0	0		DOMADM	<u>READ</u>			No	
	10	0	0	25Dec09		<u>READ</u>	READ		No	
	0	0	0		IMSERV	<u>READ</u>			No	IDM U
	0	0	0		IMWEB	<u>READ</u>			No	
	2	0	0	21Dec09		<u>READ</u>	READ		No	
	0	0	0		NFSCM	<u>READ</u>			No	NFS C
	0	0	0		SSHD	<u>READ</u>			No	
	6	0	0	19Jan10		<u>READ</u>	READ		No	
	13	1	0	19Jan10		READ	READ	ALTER	No	
	0	0	0		TIMED	READ			No	ТСР Т
	0	Θ	0		WEBSRV	READ			No	MVS W
***	*******	*****	*****	*******	K Bottom (of Data **	******	******	*******	*****
Con	mand ===	=>						Sc	croll===>	<u>CSR</u>
MA	а									32/015
1.122										

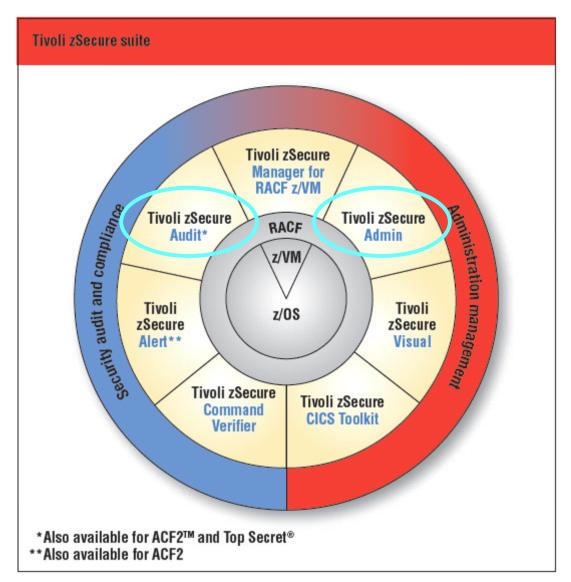


RACF Offline environment to test cleanup





Find field values in RACF application segments





Find field values in RACF application segments

- Until zSecure 1.10
 - Search on fields in base segment
 - Presence/absence of application segments
 - Application segment fields shown
 - Use SORT and FIND in display
- With zSecure 1.11
 - After *presence* and *absence* selections
 - Prompt for selection/exclude criteria in segments
 - Options RA.D, G, R and U

IB

Research UID(0) users...

Menu	Options	Info	Commands	Setur Session A - [3	22 × 20]	
	:	zSecure Su	ite - RACF	- User Selecti		
Add new	user or segme	nt				
Jserid Name Installatio Owned by . Default gro	s that fit all n data up up	(u (g (g	ser profil	e key or filter (name/part o (data scan, erid, or filter lter)	of name, no fil no filter exce	
	selection crite		Ĺ	Segment presend	ce _ Absence	
Print fo	ments _ rmat	Customize	title	Specify scope Send as e-mail Sort different	ly Narrow p	rint
Command ===	>				start	-
A a					1	9702

UID(0) and exclude HOME('/')

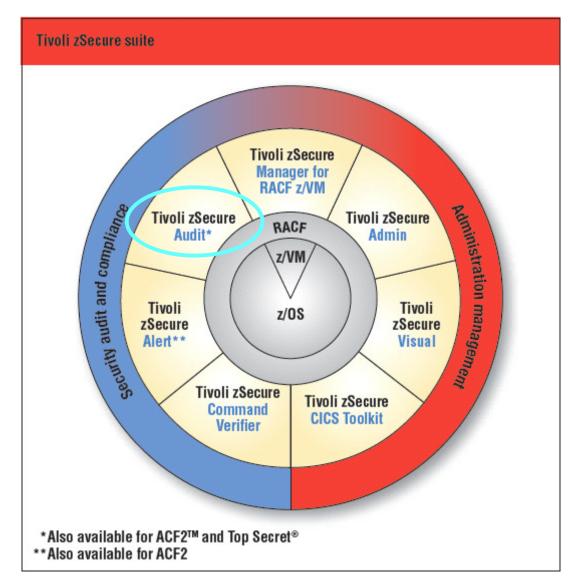
D <mark>I</mark> Se	ession A	- [32 x 80]				
	Menu	Options	Info	Commands	Setup	
—	Menu ER OM UNIX UNIX Init: Max. Max. Max. Max. Max.	Options	Secure Su	uite - User O	- Segment se (operator:	<pre>lection (<= > >= = <> ~=) (path or filter) (program or filter) (<= > >= = <> ~=)</pre>
Co M <u>A</u>	mmand a	===>				07/035
						@ 0040 IDM 0

Result: UID(0) and exclude HOME('/')

D Session A - [32 x 80]	
zSecure Suite USER OMVS segments 1 s ela	ipsed, 0.3 s CPU
All users with segment OMVS, uid=0x home=/ 29 Sep 2009 15:	
User Complex Vid Home directory	Initial prog
PROD0 /u/	<u>/bin/sh</u>
CRMQA097 PROD0 //sub1/sub2/sub3/sub4/sub5/su	
<u> </u>	<u>/bin/sh</u>
	<u>/bin/sh</u>
SKRBKDC PROD0	
STRCONS PROD0	
STRTASK PROD0 ********************************	
***************************************	****
Command ===>	Scroll===> CSR
10 a	32/01
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TCPIP Stack Configuration reporting





TCPIP Stack Configuration

- NMI call in Communication Server: GetProfile
 - New service in z/OS 1.11
 - APF protected
 - zSecure Collect executes GetProfile
 - Stores result in CKFREEZE
 - Comm Serv also logs configuration in SMF record 119
- zSecure Audit analyzes
 - Option RE.I and AU.S for CKFREEZE
 - Option EV.I for SMF

TCPIP Stack Configuration

³¹ Session A - [32 x 80]		
zSecure Suite Display Selection	Line 1	of 8
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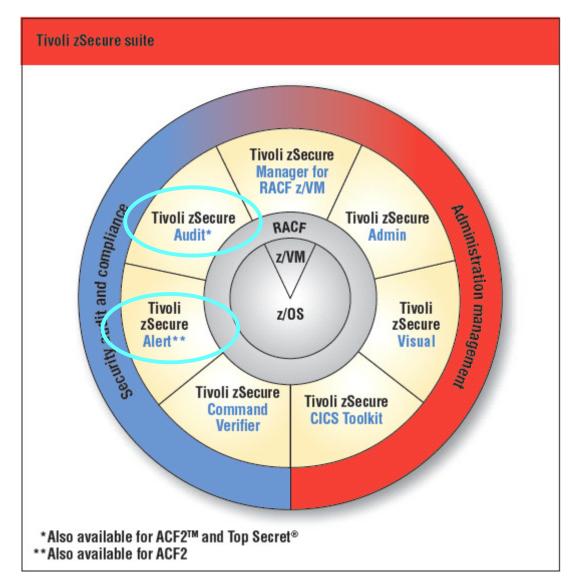


TCPIP Stack Configuration

IBM Tivoli zSecure IP_PORT summary Line 32 of 72 All TCP/IP stack information 6 Aug 2009 10:03 Complex Syst Stack Count EZOS EZOSRD2R EZOS TCPIP Stack BPort EPort Prt Bind IP address replacement TCPIP 723 723 TCP TCPIP 723 723 TCP TCPIP 750 750 UDP TCPIP 750 750 UDP TCPIP 751 751 TCP TCPIP 751 751 TCP TCPIP 753 823 TCP TCPIP 751 751 UDP TCPIP 702 1023 1023 UDP TCPIP 1023 1023 UDP TCPIP 1024 1024 TCP TCPIP 1024 1024 TCP TCPIP 7000 7009 TCP TCPIP 7000 7059 TCP TCPIP 7000 7059 TCP TCPIP 8010 8019 TCP TCPIP 8000 8059 TCP TCPIP 8000 8059 TCP TCPIP 8000 8059 TCP TCPIP 8001 8059 TCP TCPIP 8001 8059 TCP TCPIP 8000 8059 TCP TCPIP <th>D Session A - [32</th> <th></th>	D Session A - [32													
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SMF record support and reporting





Additional SMF record types and fields

- CICS (type 110)
- Communication Server, IP Stack Configuration, IPSEC (type 119)
- Member level changes (type 42)
- New RACF events (type 80)
- OAM (type 85)
- Omegamon (use SIMULATE SMF=nnn FORMAT=OMEG)
- R_auditx (type 83, subtype 2)
- TKLM (type 83, subtype 6)
- UNIX extended attribute change (type 92, subtype 15)
- Websphere Application Server (type 83, subtype 5)

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CICS SMF records

Event log record detail informationLine 14 of 174Date/timeDescription27Mar09 03:06:40.67 CICSA CICS transaction CICS CPLT27Mar09 03:06:40.87 CICSA CICS transaction CICS CSY27Mar09 03:06:40.82 CICSA CICS transaction CICS CSY27Mar09 03:06:40.97 CICSA CICS transaction CICS CSY27Mar09 03:06:41.02 CICSA CICS transaction CICS CSY27Mar09 03:06:41.11 CICSA CICS transaction CICS CSY27Mar09 03:06:41.15 CICSA CICS transaction CICS CSY27Mar09 03:07:22.41 CICSA CICS transaction CICS CSY27Mar09 03:07:22.41 CICSA CICS transaction CICS CSY27Mar09 03:07:23.08 job CICSA CICS transaction CICS CMBG27Mar09 03:07:23.08 job CICSA CICS transaction CICS CSF27Mar09 03:07:23.24 CICSA CICS transaction CICS CSF27Mar09 03:07:23.24 CICSA CICS transaction CICS CSF27Mar09 03:07:23.24 CICSA CICS transaction CICS CMBG27Mar09 03:07:23.24 CICSA CICS transaction CICS CSF27Mar09 03:07:24.11 CICSUSER CICS transaction CICS CSF27Mar09 03:07:25.63 CICSUSER CICS transaction CICS CSFN from L70227Mar09 03:07:25	PL Session A - [32 x 80]	
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M <u>A</u> a 30/003	M <u>A</u> a	30/002

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CICS SMF records

D Session A - [32 x 80]					
Event log record det	ail inform	nation	0.CM	00.00.00.+-	Line 1 of 93
			Zonari	09 03:58 to	1Apr09 05:00
Description BCSCGB1 CICS trans:	action CIC	S CEMN from L70	92	subrecord	Inumber
Record identificat	ion				
Jobname + id:	CICSA				
SMF date/time: Event date/time:			1.28		
SMF system:	SYS1	record type:	110-1	record no:	CKR1SM00 10 1
Shi System.	5151	record type.	110 1	record no.	CRRISHOU IU I
CICS address space	data				
Subsys:	CICS				
Applid:	CICS				
Specific applid:	CICS				
CICS transaction d	ata				
	CEMN				
Transaction type:	ТО				
Completion:					
Elapsed:	00:01:17.	973034			
Subject identifica	tion				
User:	BCSCGB1				
Name:					
CICS terminal	L702				
LV name:	LCL702	Vtam net:	ADCD		
_ Source IP:					
Remote network: Command ===>				50	roll===> CSR
MA a				30	32/015
					527015



Member level changes

- DFSMS logs changes to PDS and PDSE
 - Starting with z/OS 1.11, back level via PTF
 - RA10 PSY UA42647 UP08/09/16 P F809
 - R180 PSY UA42648 UP08/09/16 P F809
 - R190 PSY UA42649 UP08/09/16 P F809
 - SMF 42
 - INITIALIZE, DELETE, ADD, CHANGE, REPLACE, RENAME
- zSecure Audit and Alert recognize these records
 - Also from SMF 14 and 15
 - When *member* code in TSO ALLOC, DYNALLOC or JCL DD
 - Monitor updates to Trusted Computing Base
 - With date, time, userid, dsname and member name

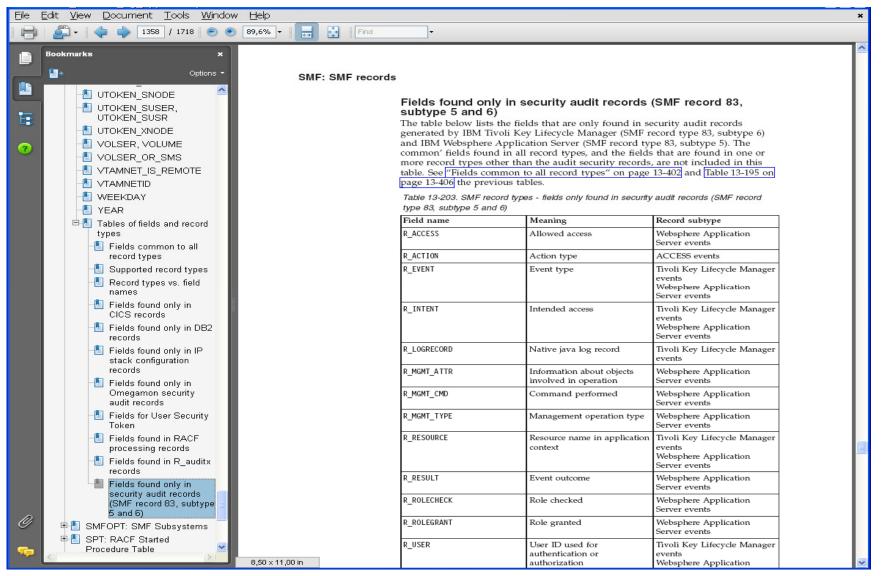
Member level changes

₽ <mark>1</mark> Session A - [32 x 80]	
Event log record detail information 0 s elapsed, 0.2 s CI	ΡU
15Jul08 17:42 to 17Jul08 19:4	43
Date/time Description	
15Jul08 17:42 SYSPRG1 Delete member EFFE in DMTP13 IBMUSER.ISPF.CNTL	
15Jul08 18:45 SYSPRG1 Rename member \$\$README to \$\$README in DMTP13 IBMUSE	λ .Ι
15Jul08 18:45 SYSPRG1 Add member EFFE in DMTP13 IBMUSER.ISPF.CNTL	
15Jul08 18:46 SYSPRG1 Rename member \$\$READMI to \$\$README in DMTP13 IBMUSE	۲.I
15Jul08 18:46 SYSPRG1 Delete member EFFE in DMTP13 IBMUSER.ISPF.CNTL	
15Jul08 19:11 SYSPRG1 Add member SMFUNL in DMTP13 IBMUSER.ISPF.CNTL	
15Jul08 19:12 SYSPRG1 Replace member SMFUNL in DMTP13 IBMUSER.ISPF.CNTL	
17Jul08 17:31 SYSPRG1R Replace member AA25068 in DMTA11 DLIB.SYS1.SMPPTS	
17Jul08 17:31 RCCSHTM Add member BA25068R in DMTP13 IBMUSER.ISPF.CNTL	
17Jul08 17:32 RCCSCIN Add member BA25068S in DMTP13 IBMUSER.ISPF.CNTL	
17Jul08 17:33 RCCSC Add member BA25068A in DMTP13 IBMUSER.ISPF.CNTL	
17Jul08 17:34 Replace member BA25068A in DMTP13 IBMUSER.ISPF.CNTL	
17Jul08 17:35 SYSPRG1A Replace member IGG0210B in DMTRES SYS1.LPALIB	
17Jul08 17:35 SYSPRG1A Replace member IGWCCA00 in DMTRES SYS1.LPALIB 17Jul08 17:35 SYSPRG1A Replace member IGWCDRTR in DMTRES SYS1.LPALIB	
17Jul08 19:34 Replace member AA250681 in DMTRES STST.EPHEIB	
**************************************	***
Command ===> Scroll===> CSI	R
MA a 32/0	
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WAS and TKLM security audit event records



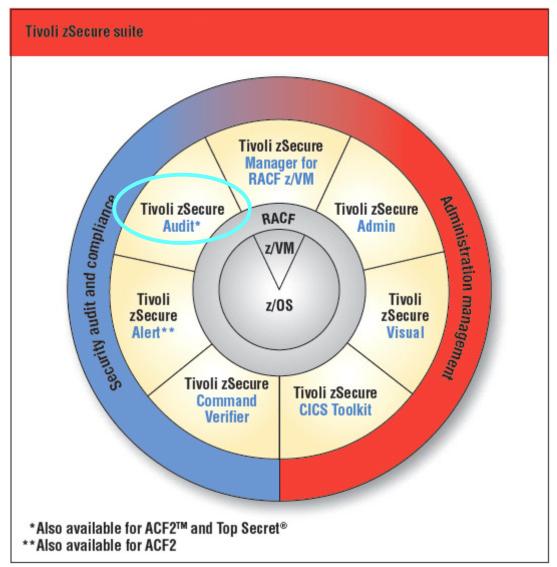


New ISPF options for Event selection and reporting

Menu Options Info Commands Setup zSecure Admin+Audit for RACF - Main menu More + Setup Options and input data sets More + RACF RACF Administration AU Audit Audit security and system resources RE Resource Resource reports AM Access RACF Access Monitor EV Events Event reporting from SMF and other logs U User User events from SMF G Group Group events from SMF R Resource General resource events from SMF R Resource General resource events from SMF R Resource General resource events from SMF I IP IP events from SMF and other logs I IP IP events from SMF and other logs 1 SMF reports Predefined analysis reports 2 RACF events RACF logging for specific events 4 DB2 DB2 events from SMF 5 CICS CICS events from SMF	D Sessi	ion A - [32 x 80]		
More + SE Setup Options and input data sets RA RACF RACF Administration AU Audit Audit security and system resources RE Resource Resource reports AM Access RACF Access Monitor EV Events Event reporting from SMF and other logs U User User events from SMF G Group Group events from SMF D Data set Data set events from SMF R Resource General resource events from SMF F Filesystem Unix filesystem events from SMF and other logs I IP IP events from SMF and other logs I SMF reports Predefined analysis reports 2 RACF events RACF logging for specific events 4 DB2 DB2 events from SMF 6 Omegamon Omegamon events from SMF C Custom Custom report CO Commands Run commands from library IN Information Information and documentation L0 Local Locally defined options X Exit Exit this panel Input complex: none selected Product/Release 5655-T01 IBM Tivoli zSecure Admin 1.11.0 Option ===>	and the second		ons Info Commands Setup	
SESetupOptions and input data setsRARACFRACF AdministrationAUAuditAudit security and system resourcesREResourceResource reportsAMAccessRACF Access MonitorEVEventsEvent reporting from SMF and other logsUUserUser events from SMFGGroupGroup events from SMFRResourceGeneral resource events from SMFRResourceGeneral resource events from SMF and other logsIIPIP events from SMF and other logs1SMF reportsPredefined analysis reports2RACF eventsRACF logging for specific events4DB2DB2 events from SMF5CICSCICS events from SMF6OmegamonOmegamon events from SMF6OmegamonGeneration and documentationL0LocalLocally defined optionsXExitExit this panelInput complex:none selectedProduct/Release5655-701 IBM Tivoli zSecure Admin 1.11.0Option ===>				+
	RA AU RE AM EV U G D R F I 1 2 4 5 6 C CO IN LO X Inpu Prod	RACF Audit Resource Access Events User Group Data set Resource Filesystem IP SMF reports RACF events DB2 CICS Omegamon Custom Commands Information Local Exit It complex: not	Options and input data sets RACF Administration Audit security and system resources Resource reports RACF Access Monitor Event reporting from SMF and other logs User events from SMF Group events from SMF Data set events from SMF General resource events from SMF and other logs IP events from SMF and other logs Predefined analysis reports RACF logging for specific events DB2 events from SMF CICS events from SMF Megamon events from SMF Custom report Run commands from library Information and documentation Locally defined options Exit this panel	+
	Opti MA	on ===>		32/014



Other enhancements to Audit





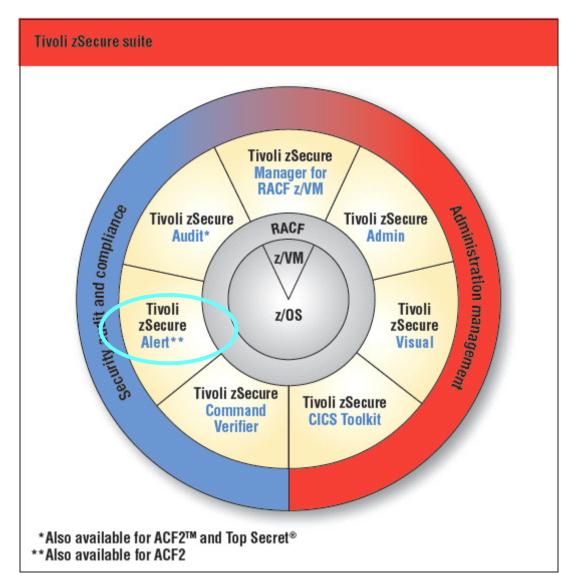
Other enhancements to Audit

- Minimum audit priority for reporting
 - e.g., suppress "housekeeping" issues

Session A - [32 Menu	Options	Info	Commands	Setup	
nenu	options	INTO	commands	Setup	
		zSecure Ad	min+Audit fo	r RACF - Audi	it – Status
nter / to MVS tab MVS exto RACF co RACF uso RACF res	ended ntrol er	MVS orien MVS orien RACF orie User orie	ted tables (ted tables (nted tables nted RACF ta	reads first p reads whole (bles and repo F tables and	orts
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Extended Monitoring





Extended Monitoring

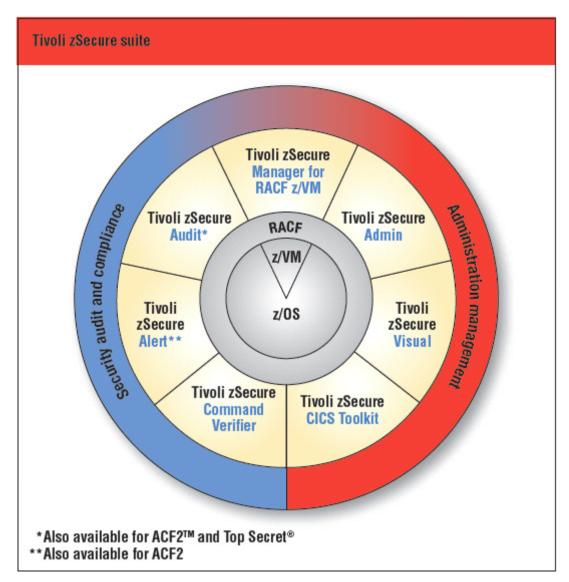
- Identify changes in the configuration
 - Even when there is no SMF record or syslog message
- zSecure Alert started task (C2POLICE)
 - Keeps 2 snapshot files
 - *Current* and *base*
 - Refresh at user-specified intervals
 - Compares *current* with *base*
 - · Fields that must match to identify entry
 - Fields where changes matter
 - Examples: SETROPTS class options and SVC Table
 - Alert when change is found

Extended Monitoring: configuring

Menu	80] Options	Info	Commands	Setup				
				•				-
	:	zSecure Su	ite – Setup –	Alert	Ro	οω 1 t	0 5	ot !
he followin	alerts lert you want g line command ert), W(Who/WI	ds are ava	ilable: A(Pre			elete),	
Alert				Id	Sel	gECS	W C	E
Global security countermeasure activated 1							W	N
Global security countermeasure deactivated 1502 Global security countermeasure or option changed 1503							W	N
							W	N
	ource class ha			150 150			ม ม	Y
	ource class ha ******					gE		
Alert				Id	Sel	qECS	w c	E
	loss started			160			W	N
SMF logg	ing resumed at	fter failu	re	160	2 No	gΕ	W	N
	nition change		_	160			W	Y
****	*****	***** 001	tom of data ?	• • • • • • • • • • • • • • • •	***	*****	· ጥ ጥ ጥ ጥ	* * *
					Scr	oll =	==>	CSR
ommand ===>								



z/OS currency





z/OS currency support

- Load module signature verification
- Extended member statistics in audit reports (1.10)
- Identity propagation
- RACF fields and classes for ICSF
- Password phrase exploitation (1.8)
- TCPIP configuration (NMI & SMF, record type 119)



z/OS currency support

- PDS(E) member level auditing SMF 42
- New RACF events SMF 80
 - Event 86: Load Module Signature Verification
 - event 87: IDID mapping
 - event 88+89: AUTOPROF and QRECOVER
- WAS SMF 83(5)
- TKLM SMF 83(6)
- OAM SMF 85
- UNIX extended attribute change SMF 92(15)
- IPSEC SMF 119 (1.10)

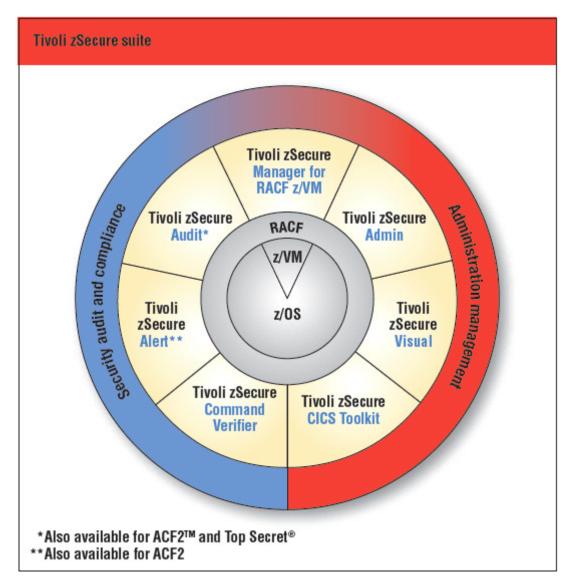


z/OS currency support

- Dynamic exits (RMM)
- OAM exit (CBRUXSA)
- IPLPARM (AXR, ZIIPZAAP)
- >64 CPUs per LPAR
- Extended address volumes
- Dynamic TIOT size change



ACF2 currency



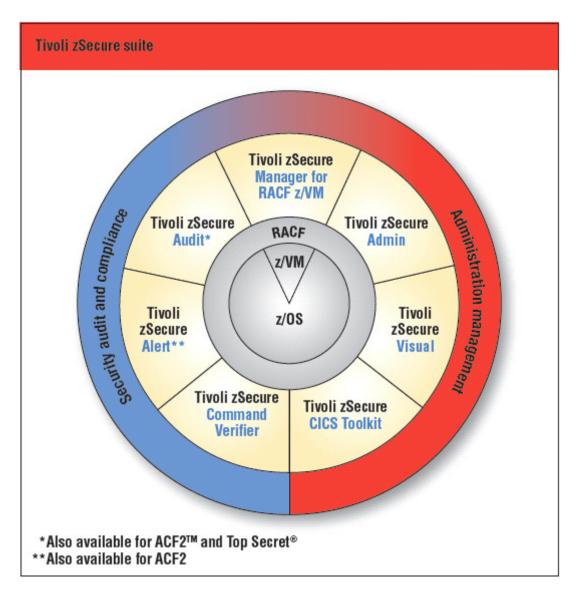


ACF2 currency support

- ACF2 R12
 - Password phrases
 - Restricted access userids
 - New fields in Global System Options
 - New SMF fields and events
 - Record changes (LID, GSO)



Globalization



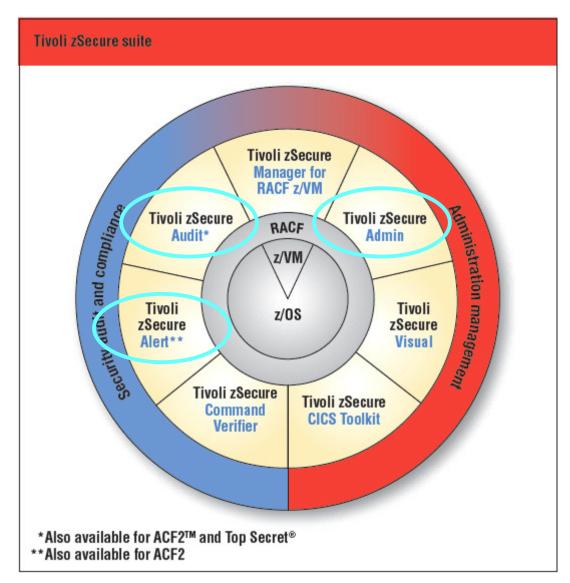


DBCS support

- FIND command supports partial DBCS strings
- Support DBCS in quoted strings
- WRAP modifier wraps DBCS
 - Overtyping DBCS data is not allowed with WRAP or WORDWRAP
- Reliable switch between SBCS and DBCS
 - SO/SI inserted when fields are wrapped/truncated
- Reports with audit concerns in Japanese
- No mix of English and Japanese in panels
- WORDWRAP understands Japanese hyphenation
 - Kinsoku shori rules
 - Only when column is wide enough



CARLa update





Newlist type=SMF fields

- TYPE=42
 - MEMBER (also 14,15), MEMBER_OLDNAME, MEMBER_ALIAS
 - ACTION (INITIALIZE, DELETE, ADD, CHANGE, REPLACE, RENAME, etc)
- TYPE=83
 - Fields from UNIX, long field length
- TYPE=110
 - CICS_TERM, CICS_TTYPE, ELAPSED, EVENT_DATETIME, SUBRECORD, SUBRECORDNO, TRANSACTION, VTAMNET_IS_REMOTE, VTAMNETID
- SPECIALTYPE=OMEG
 - OMCMD_NAME, OMCMD_ALLOWED, OMCMD_TEXT, OMCMD_TYPE



Newlist type=ACCESS

- Processing of Access Monitor files
- Fields from events and from RACF database
- Used to summarize access monitor files and produce usage reports



Newlist type=RACF_ACCESS

- One line for each access path to a profile
 - ACL entries and UACC
- Simulated RACLIST
 - Grouping profile(s) memlst merged with transaction(s)
 - Field RACLIST_MERGE=YES
 - Duplicate members from several profiles
 - Field RACFLIST_MERGE=NO
- Access counts
 - From access monitor file(s)



Simulate resource: merged members

```
simulate class=tcicstrn resource=(CEDA,CEMT,CEMA)
```

```
newlist type=racf_access title='Merged profiles matching CEMA',
emptylist='Nothing matches CEMA'
```

s class=%cicstrn resource=cema raclist_merge=yes

```
sortlist member_class member_key(17),
```

```
class profile(17) proftype id access
```

RACF ACCESS AUTHORIZATIONS

Merged profiles matching CEMA

MemClass Member key	Class	Profile	Туре	Id	Access
TCICSTRN CEM*	GCICSTRN	I ER50414.RND2	GENERIC	-UACC-	NONE



Compare snapshots

- Compare records from one or multiple sources
- Identify and show changes in selected fields
 - Give the compare option a newlist type
 - COMPAREOPT TYPE=RACF
 - Specify a label
 - e.g. NAME=PRIV_CHANGES
 - Identify the key of an observation
 - e.g. BY=(CLASS,PROFILE,SEGMENT)
 - Identify the base to compare against
 - e.g. BASE=(COMPLEX=GOLD)
 - Specify what to compare
 - e.g. COMPARE=(SPECIAL,OPERATION,AUDITOR)



Compare snapshots

- Specify what to show
 - Additions, deletions, changes, changes that are improvements, changes that reduce security, differences
 - e.g. SHOW=DIFF



Find profiles that were added with privileges

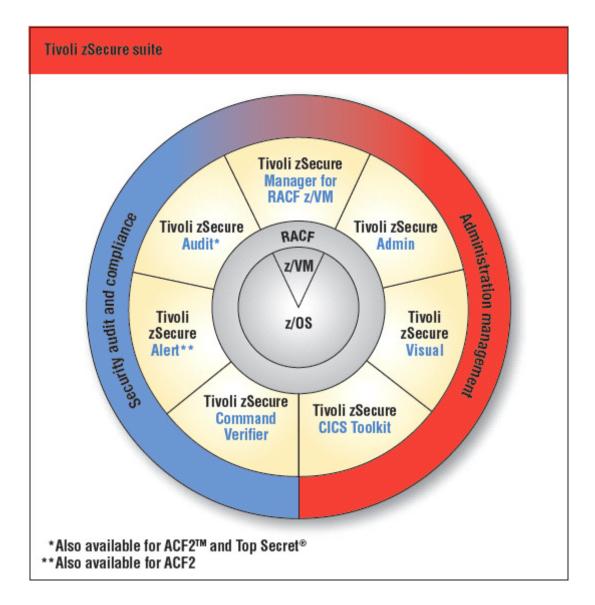
```
alloc type=unload complex=gold dsn=CKR.BACK1DAY.UNLOAD
alloc type=racf complex=current active
compareopt name=priv_add,
        type=racf,
        by=(class,profile,segment),
        base=(complex=gold),
        compare=(special,operations,auditor),
        show=add
newlist type=racf compareopt=priv_add
    select class=user segment=base complex=(gold,current),
        (special or operations or auditor)
    sortlist profile(8) special,operations,auditor
```

```
PROFILES THAT WERE ADDED
```

```
Profile Spc Opr Aud
NEWG YES
NEWSA YES
NEWTH YES
```

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Availability and Support



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Supported platforms

- Supports z/OS 1.11
 - Also runs on (some) older z/OS releases
 - Formal support for z/OS 1.4 and newer
 - zSecure Visual server requires z/OS 1.6 and newer
- CICS TS 2.1 through 4.1
- CA ACF2 and CA TSS release 8 through 12
- DB2 up to release 9.1
- zSecure Visual
 - Tested with Windows XP SP2 and SP3, Vista, Windows 7



Availability

- Announcement November 3, 2009
- GA November 6, 2009
 - Order via Shop z
 - <u>https://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp</u>
 - http://www.ibm.com/systems/z/os/zos/buy.html
- zSecure for RACF z/VM
 - Current version 1.8.1
 - PTF for z/VM 5.3 and 5.4 available
- Check for additional PTFs on Shop z



Documentation

- Manuals in PDF and HTML format
 - See Tivoli zSecure Information Center
 - No more BookManager
- zSecure Visual help converted to Eclipse help plugin
- RACF Offline integrated into Admin+Audit manual
- Installation and Deployment guide
 - Access Monitor and RACF Offline setup added
 - Installation options and steps clarified
- Quick Reference Guide updated
 - CA TSS fields indicated
 - Available online



Get involved

- A large percentage of new functions and features are driven by customer requirements
- We welcome your suggestions for improvements
 - submit them through www.ibm.com
- Join the zSecure Advisory Council to have your say on new release content
 - send an e-mail to <u>glinda@us.ibm.com</u>
- Want to share ideas, best practices, CARLa programs or how do I questions?
 - Join the zSecure forum at:-<u>http://www.ibm.com/developerworks/forums/forum.jspa?forumID=1255</u>



Useful resources

zSecure Homepage: http://www-01.ibm.com/software/tivoli/products/zsecure/

zSecure 1.11 information center:

http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/topic/com.ibm.zsecure.doc/welcome.html

zSecure release note information:

http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/topic/com.ibm.zsecure.doc/releaseinfo/releaseinformation.html

zSecure forum: <u>http://www.ibm.com/developerworks/forums/forum.jspa?forumID=1255</u>

zSecure Redbook: http://www.redbooks.ibm.com/abstracts/sg247633.html?Open



Education

- Current education offerings for zSecure include:-
 - Basic Administration and Reporting (3 days)
 - RACF Management Workshop (2 days)
 - RACF and SMF Auditing (2 days)
 - z/OS UNIX System Services (USS) Security Overview (1 day)
 - CARLa Auditing and Reporting Language (3 days)
 - Classes can be run onsite or offsite
- For more details, please visit:
 - http://www-01.ibm.com/software/tivoli/education/edu_prd.html



Questions?



