

zEnterprise.
A New Dimension in Computing

IBM Security Solutions sobre System z



Problemas típicos de seguridad en Mainframe

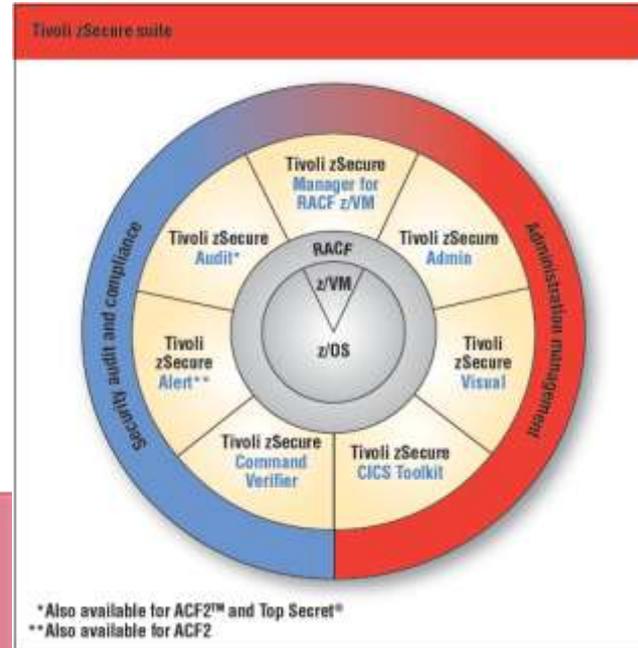
- Auditoria y cumplimiento de regulaciones (PCI, SOX) y gobernabilidad de mainframes
 - Normalmente en constante auditoria
- Administrador de RACF durante una auditoria
 - Explicar a un auditor como trabaja un mainframe
 - Procesar múltiples solicitudes de reportes de RACF y SMF dentro de 24 hrs
 - Escribir grandes cantidades de código para crear todos los reportes solicitados
 - Descargar todos los reportes que se crearon a la PC para enviarlos por mail
 - Emplear tiempo en las juntas de auditoria para explicar el significado de los reportes
 - Este ciclo se repite durante toda la auditoria
- A pesar de que RACF es formalmente un ambiente de seguridad muy efectivo existen algunas asperezas en el sistema
 - Sin una interfaz de usuario, los administradores de seguridad pierden tiempo al administrar RACF



Tivoli Security - Mainframe

IBM Tivoli zSecure Suite

* Also available for ACF2 and Top Secret
 ** Also available for ACF2



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Monitoreo, Auditoría y Reporteo de la seguridad de la organización

Administración empresarial de identidades y accesos

Tivoli Security Information and Event Manager (TSIEM)

Tivoli Security Operations Manager (TSOM)

Tivoli Identity Manager (TIM) for z/OS

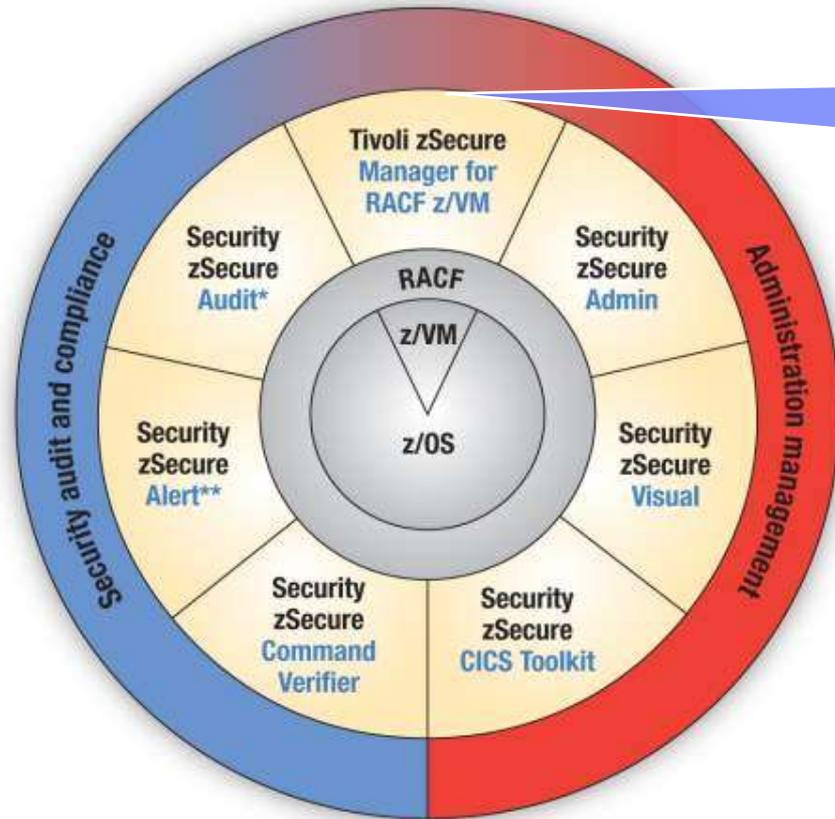
Tivoli Federated Identity Manager (TFIM) for z/OS

Tivoli Directory Server (TDS) for z/OS

Tivoli Directory Integrator (TDI) for z/OS

IBM Security zSecure Suite Overview

IBM Security zSecure suite



Administración y Auditoría para RACF en el ambiente VM

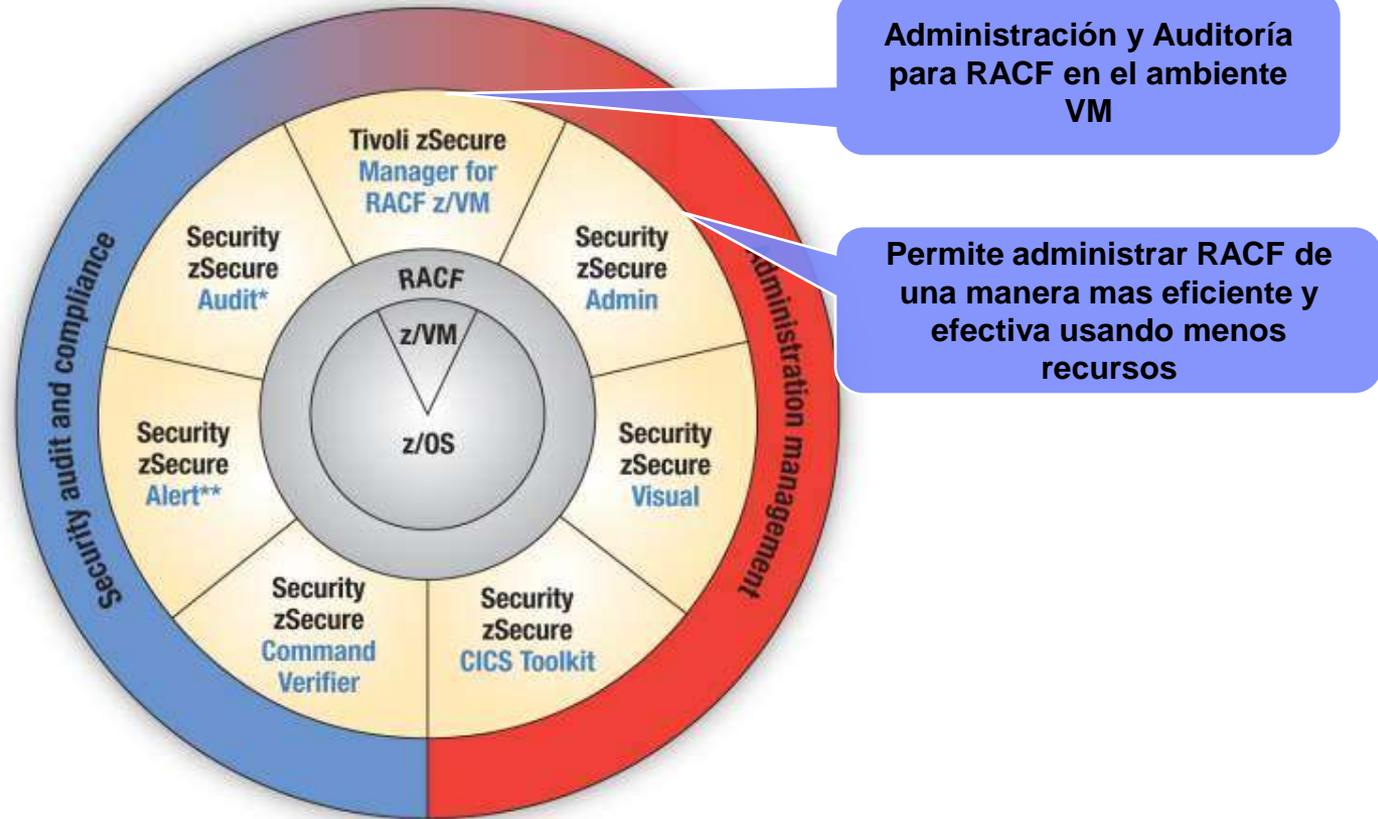
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Búsqueda de usuarios sencilla

Menu Options Info Commands Setup

zSecure Admin+Audit for RACF

0.1 s CPU, RC=0

Command ==> _____ _ start panel

_ Add new user or segment

Show userids that fit all of the following criteria

Userid ZP* (user profile key or filter)
 Name _____ (name/part of name, no filter)
 Installation data . _____ (data scan, no filter except *)
 Owned by _____ (group or userid, or filter)
 Default group . . . _____ (group or filter)
 Connect group . . . _____ (group or filter)

Additional selection criteria

_ Other fields _ Attributes _ Segment presence _ Absence

Output/run options

_ Show segments - All - Specify scope
 - Print format Customize title Send as e-mail
 Background run Full page form Sort differently Narrow print

Administración amigable de RACF

zSecure Admin+Audit for RACF USER overview

Line 1 of 26

Command ==> _____

Scroll==> CSR

Users like ZPU*

17 Oct 2007 10:22

User	Complex	Name	DfltGrp	Owner	RIRP	SOA	gC	LCX	Grp
___ ZPU001	RB0T	<u>BANKING USER 1</u>	<u>ZPDEPT31</u>	<u>ZPDEPT31</u>	_____	_____		X	2
___ ZPU002	RB0T	<u>BANKING USER 2</u>	<u>ZPDEPT31</u>	<u>ZPDEPT31</u>	_____	_____		X	2
___ ZPU003	RB0T	<u>BANKING USER 3</u>	<u>ZPDEPT31</u>	<u>ZPDEPT31</u>	_____	_____		X	2
___ ZPU004	RB0T	<u>BANKING USER 4</u>	<u>ZPDEPT31</u>	<u>ZPDEPT31</u>	_____	_____		X	2
___ ZPU005	RB0T	<u>BANKING USER 5</u>	<u>ZPDEPT31</u>	<u>ZPDEPT31</u>	_____	_____		X	1
___ ZPU006	RB0T	<u>BANKING USER 6</u>	<u>ZPDEPT31</u>	<u>ZPDEPT31</u>	_____	_____		X	3
___ ZPU007	RB0T	<u>BANKING USER 7</u>	<u>ZPDEPT31</u>	<u>ZPDEPT31</u>	_____	_____		X	3
___ ZPU008	RB0T	<u>BANKING USER 8</u>	<u>ZPDEPT31</u>	<u>ZPDEPT31</u>	_____	_____		X	1
___ ZPU009	RB0T	<u>BANKING AUDITOR</u>	<u>ZPDEPT31</u>	<u>ZPDEPT31</u>	_____	_____	g	X	3
___ ZPU011	RB0T	<u>HR USER 1</u>	<u>ZPDEPT32</u>	<u>ZPDEPT32</u>	_____	_____		X	2
___ ZPU012	RB0T	<u>HR USER 2</u>	<u>ZPDEPT32</u>	<u>ZPDEPT32</u>	_____	_____		X	2
___ ZPU013	RB0T	<u>HR USER 3</u>	<u>ZPDEPT32</u>	<u>ZPDEPT32</u>	_____	_____		X	3
___ ZPU014	RB0T	<u>HR USER 4</u>	<u>ZPDEPT32</u>	<u>ZPDEPT32</u>	_____	_____		X	3
___ ZPU015	RB0T	<u>HR USER 5</u>	<u>ZPDEPT32</u>	<u>ZPDEPT32</u>	_____	_____		X	3
___ ZPU016	RB0T	<u>HR USER 6</u>	<u>ZPDEPT32</u>	<u>ZPDEPT32</u>	_____	_____		X	4
___ ZPU017	RB0T	<u>HR USER 7</u>	<u>ZPDEPT32</u>	<u>ZPDEPT32</u>	_____	_____		X	4
___ ZPU018	RB0T	<u>HR USER 8</u>	<u>ZPDEPT32</u>	<u>ZPDEPT32</u>	_____	_____		X	2
___ ZPU019	RB0T	<u>HR AUDITOR</u>	<u>ZPDEPT32</u>	<u>ZPDEPT32</u>	_____	_____	g	X	3
___ ZPU031	RB0T	<u>IT SPECIALIST 1</u>	<u>ZPDEPT33</u>	<u>ZPDEPT33</u>	_____	_____		X	5
___ ZPU032	RB0T	<u>IT SPECIALIST 2</u>	<u>ZPDEPT33</u>	<u>ZPDEPT33</u>	_____	_____		X	5
___ ZPU033	RB0T	<u>SECADMIN 1</u>	<u>ZPDEPT33</u>	<u>ZPDEPT34</u>	_____	_____	g	X	5
___ ZPU034	RB0T	<u>SECADMIN 2</u>	<u>ZPDEPT33</u>	<u>ZPDEPT34</u>	_____	_____	g	X	5
___ ZPU035	RB0T	<u>IT SPECIALIST 5</u>	<u>ZPDEPT33</u>	<u>ZPDEPT33</u>	_____	_____		X	2
___ ZPU036	RB0T	<u>IT SPECIALIST 6</u>	<u>ZPDEPT33</u>	<u>ZPDEPT33</u>	_____	_____	g	X	4
___ ZPU037	RB0T	<u>IT SPECIALIST 7</u>	<u>ZPDEPT33</u>	<u>ZPDEPT33</u>	_____	_____		X	3
___ ZPU038	RB0T	<u>IT SPECIALIST 8</u>	<u>ZPDEPT33</u>	<u>ZPDEPT33</u>	_____	_____		X	4

***** Bottom of Data *****

Mostrar características de un usuario

zSecure Admin+Audit for RACF USER overview

Line 1 of 64

Command ==> _____

Scroll==> CSR

All users with name SPEC

21 Sep 2007 07:41

_ Identification of ZPU031

RB0T

User name IT SPECIALIST 1

Installation data

_ Owner ZPDEPT33 USERS IN IT SERVI

_ User's default group ZPDEPT33 USERS IN IT SERVI

Group	Auth	R	SOA	AG	Uacc	Revokedt	Resumedt	InstData
<u>ZPACC01</u>	<u>USE</u>	-	-	-	<u>NONE</u>			ACCESS TO FILE TRAN
<u>ZPACC07</u>	<u>USE</u>	-	-	-	<u>NONE</u>			SYSTEM MAINTENANCE
<u>ZPACTEST</u>	<u>USE</u>	-	-	-	<u>NONE</u>			ACCESS TO FILE TRAN
<u>ZPDEPT33</u>	<u>USE</u>	-	-	-	<u>NONE</u>			USERS IN IT SERVICE
<u>ZTACC17</u>	<u>USE</u>	-	-	-	<u>NONE</u>			SYSTEM MAINTENANCE

System access

Revoked (may be by date) No
 Inactive, revoked or pending No
 Days of week user can logon SMTWTFS
 Time of day user can logon _____
 Date user will be revoked _____
 Date user will be resumed _____

Statistics

Creation date 29Aug07
 Last RACINIT current connects
 User's last use date 5Apr07
 User's last use time _____
 (ddmmmyyyy or NOREVOKE)
 (ddmmmyyyy or NORESUME)

Password

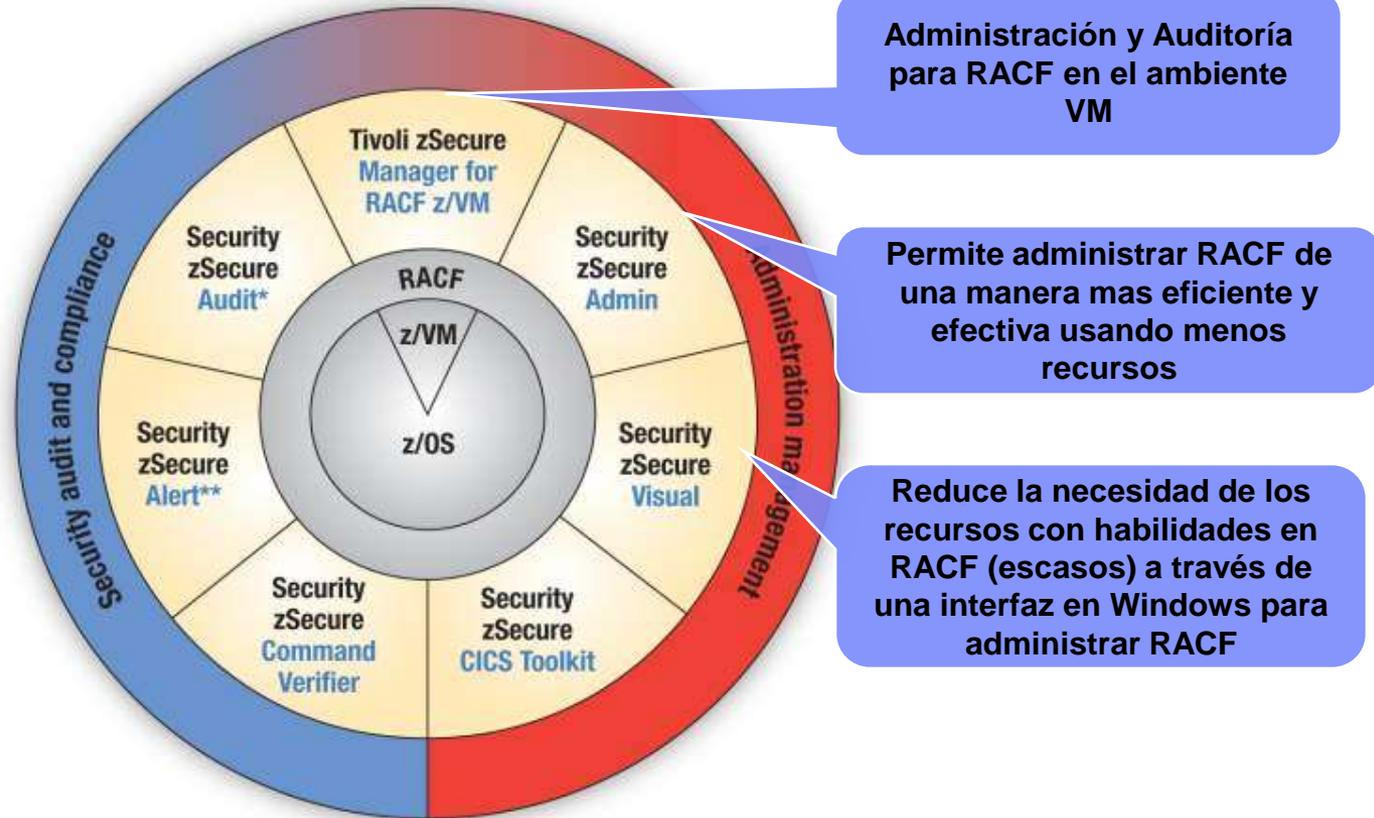
Has a password Yes
 Expired password Yes
 Password changed date _____
 Password expiration date 5Apr07
 Old passwords present # 0

Password phrase

Has a password phrase No
 Expired password phrase No
 Password phrase change date _____
 Password phrase expiry date _____
 Old pass phrases present # 0

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IBM Security zSecure suite



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zVisual Ileva RACF a un ambiente empresarial

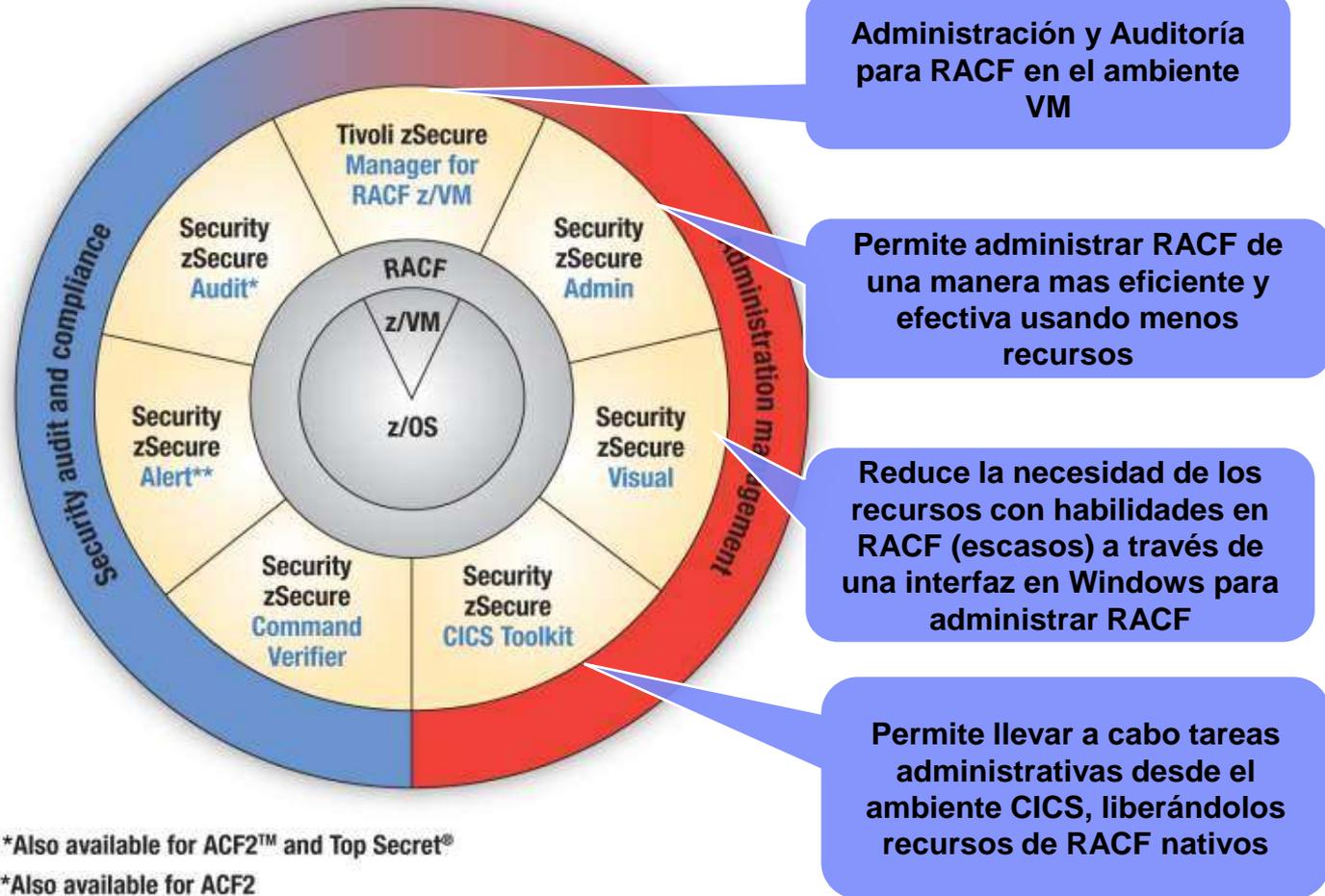
Usa menús de comandos para realizar operaciones como reseteo de passwords, borrados, connects, etc. (1). “drag and drop” (2) para agregar privilegios si estas autorizado para realizar la operación. Además puedes buscar profiles y usuarios a través de una panel de búsqueda (3). Todos los comandos son auditados en SMF y autorizados por RACF authority. Autoridad puede ser limitada via profiles de RACF.

Userid	Name	InstData	Owner	DefaultGrp
SMC0003	STUDENT UK CONTEST		SMCGRP	SMCGRP
SMC00016	STUDENT UK CONTEST		SMCGRP	SMCGRP
SMC00017	STUDENT UK CONTEST		SMCGRP	SMCGRP
SMC00032	STUDENT UK CONTEST		SMCGRP	SMCGRP
SMC00045	STUDENT UK CONTEST		SMCGRP	SMCGRP
SMC00052	STUDENT UK CONTEST		SMCGRP	SMCGRP
SMC00066	STUDENT UK CONTEST		SMCGRP	SMCGRP
SMC00070	STUDENT UK CONTEST		SMCGRP	SMCGRP
SMC00092	STUDENT UK CONTEST		SMCGRP	SMCGRP
SMC00094	STUDENT UK CONTEST		SMCGRP	SMCGRP
SMC00096	STUDEN		SMCGRP	SMCGRP
SMC00098	STUDEN		SMCGRP	SMCGRP
SMC00113	STUDEN		SMCGRP	SMCGRP
SMC00116	STUDEN		SMCGRP	SMCGRP
SMC00130	STUDEN		SMCGRP	SMCGRP
SMC00134	STUDEN		SMCGRP	SMCGRP
SMC00164	STUDEN		SMCGRP	SMCGRP
SMC00167	STUDEN		SMCGRP	SMCGRP
SMC00171	STUDEN		SMCGRP	SMCGRP
SMC00172	STUDEN		SMCGRP	SMCGRP
SMC00254	STUDEN		SMCGRP	SMCGRP
SMC00290	STUDEN		SMCGRP	SMCGRP
SMC00291	STUDEN		SMCGRP	SMCGRP
SMC00297	STUDEN		SMCGRP	SMCGRP
SMC00298	STUDEN		SMCGRP	SMCGRP
SMC00305	STUDEN		SMCGRP	SMCGRP
SMC00309	STUDEN		SMCGRP	SMCGRP
SMC00312	STUDEN		SMCGRP	SMCGRP
SMC00319	STUDENT UK CONTEST		SMCGRP	SMCGRP
SMC00326	STUDENT UK CONTEST		SMCGRP	SMCGRP
SMC00363	STUDENT UK CONTEST		SMCGRP	SMCGRP

Class	Profile	ProfType	Access	When	UAcc	Warning	Erase	AuditS	AuditF	ACL count	Owner
APPL	SMC0096	Discrete	Read		None				Read	3	SYS1
Dataset	SMC0096.**	Generic	Owner		None				Read	1	SMC0096
JESSPOOL	TSTMVS01.STC.SMC0096.**	Generic	Alter		None				Read	5	SYS1
MQADMIN	MQ01.QUEUE.SMC0096.**	Generic	Alter		None				Read	3	SYS1
MQQUEUE	MQ01.SMC0096.**	Generic	Alter		None				Read	3	SYS1
OPERCMDS	MVS.CANCEL.STC.SMC0096.**	Generic	Update		None				Read	5	SYS1
OPERCMDS	MVS.CANCEL.TSU.SMC0096	Discrete	Update		None				Read	2	BABEYS
OPERCMDS	MVS.START.STC.SMC0096	Discrete	Update		None				Read	5	SYS1
OPERCMDS	MVS.START.STC.WEBS096	Discrete	Update		None				Read	2	BABEYS
OPERCMDS	MVS.STOP.STC.SMC0096	Discrete	Update		None				Read	5	SYS1
OPERCMDS	MVS.STOP.STC.WEBS096	Discrete	Update		None				Read	2	BABEYS

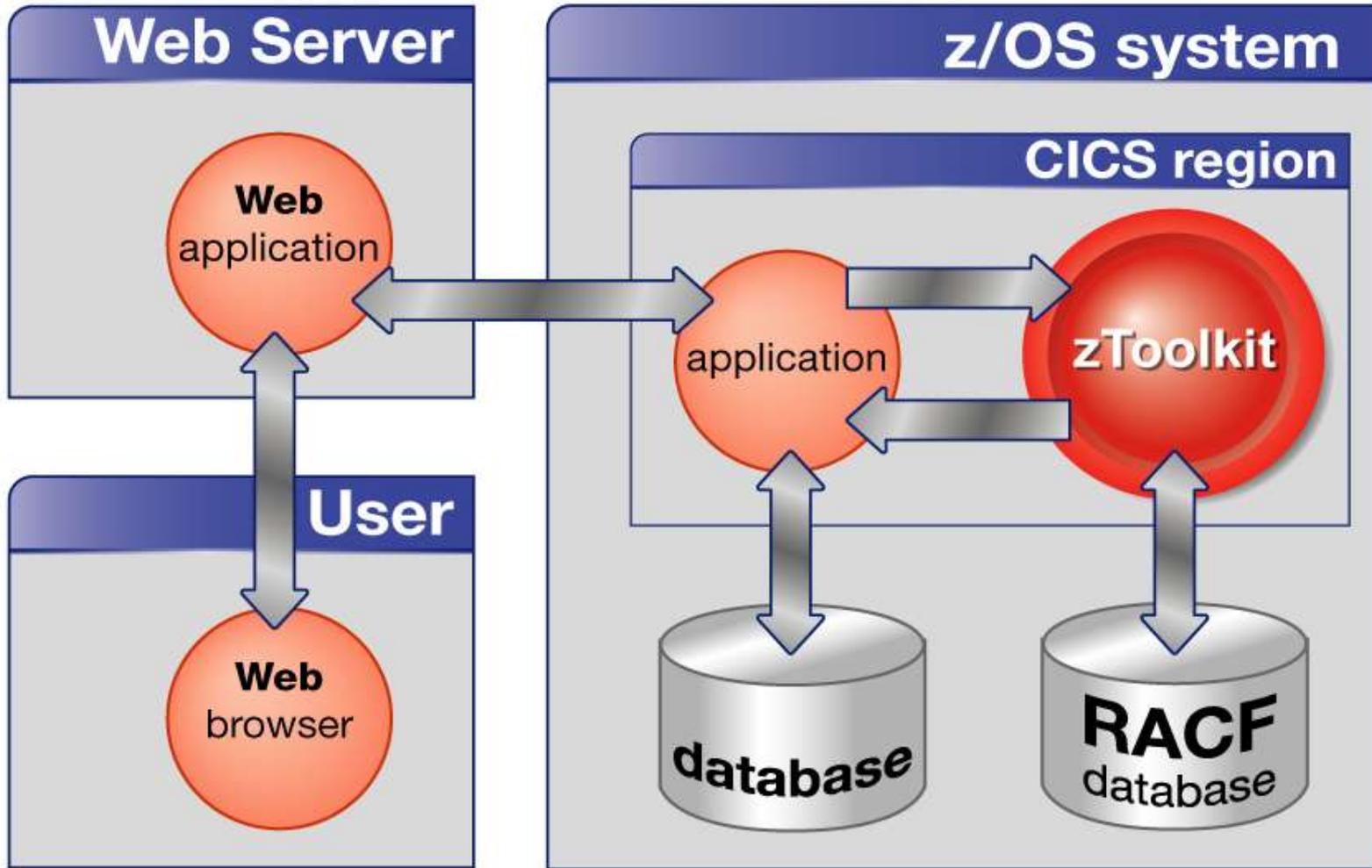
IBM Security zSecure Suite Overview

IBM Security zSecure suite



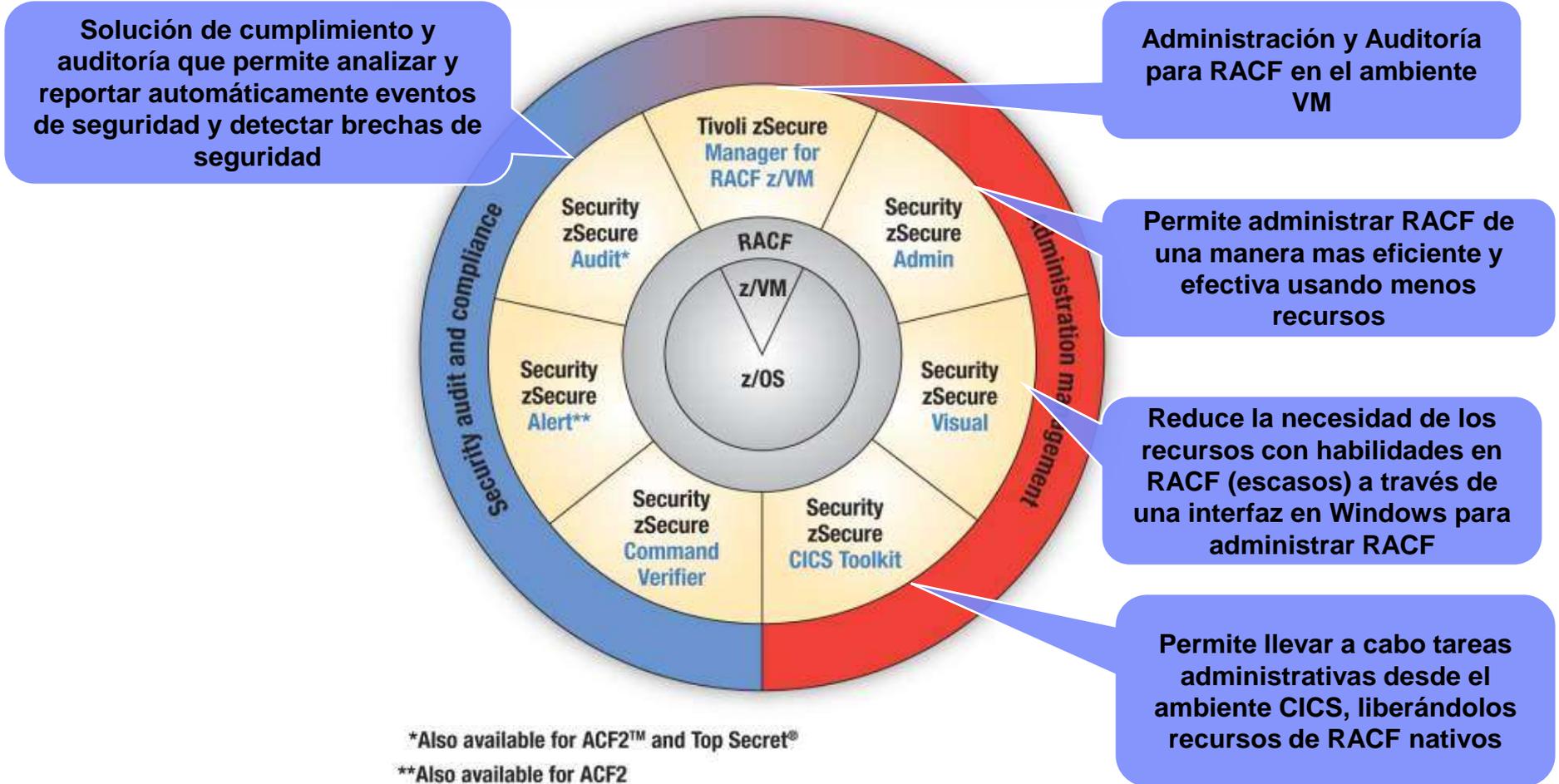
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CICS Toolkit permite que cualquier aplicación Web use RACF



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Selección de política de seguridad

Menu Options Info Commands Setup

zSecure Admin+Audit for RACF - Audit - Status

Command ==>

Enter / to select report categories

_	MVS tables	MVS oriented tables (reads first part of CKFREEZE)
/	MVS extended	MVS oriented tables (reads whole CKFREEZE)
/	RACF control	RACF oriented tables
/	RACF user	User oriented RACF tables and reports
/	RACF resource	Resource oriented RACF tables and reports

Select options for reports:

/	Select specific reports from selected categories
_	Concise (short) report
_	Output in print format
_	Run in background
/	Include audit concern overview, higher priorities only

Audit policy

/	zSecure
_	C1
_	C2
_	B1

Active primary RACF data base & ckfreeze used for input

Reporte de los usuarios con privilegios

Users with system-wide special, operations, auditor,

Line 1 of 46

Command ==>

Scroll==> CSR

23 Oct 2007 19:58

Complex	Timestamp	System authorized	Special	Operations	Auditor	ClAut	
RB0DPRIM	23Oct2007 19:58	46	43	14	6	0	
Userid	Name	Owner	RIRP	SOA	ClassAut	LastUseDa	LastPwdCh
BILLV	BILL VOSHALIKE	SYS1		Y		04Sep2007	11Jul2000
HELPDSK	OPERATIONS	SYSPROG		YY		12Jul2006	12Jul2006
IBMUSER		IBMUSER		YY		08Aug2007	08Aug2007
INST000	INSTRUCTOR 0	SYSPROG		YY		25Jul2007	
INST001	INSTRUCTOR 1	SYSPROG		YY		27Aug2007	27Aug2007
INST002	INSTRUCTOR 2	SYSPROG		YY		05Sep2007	27Aug2007
INST003	INSTRUCTOR 3	SYSPROG		YYY		22Oct2007	27Aug2007
INST004	INSTRUCTOR 4	SYSPROG		YYY		23Oct2007	27Aug2007
JTILTON	TILTON, JOEL	ZSINSTR		YYY		22Oct2007	27Aug2007
LLCOX	LLOYD COX	SYSPROG		Y		08Apr2006	22Oct2003
OPERATNS		ZSECURE	Y Y	Y		03Sep2007	
RESCUE	RESCUE A USER	MCDON	Y	YY		14Jul2000	
SAFESSA	SAFE USERID	@GRES		Y		28Apr1995	25Apr1995
SYSNET	NETWORK ID	SYS1		YYY		25Sep2007	28Mar2006
SYSPROG	IBM LS IT SUPPORT	SYS1		YYY		23Oct2007	20Jul2000
TSOCP01	CI29G STUDENT	SYSPROG		Y		23Oct2007	16Oct2007
TSOCP02	CI29G STUDENT	SYSPROG	Y	Y		13Oct2007	03Oct2007
TSOCP03	CI29G STUDENT	SYSPROG	Y	Y		28Jul2007	
TSOCP04	CI29G STUDENT	SYSPROG	Y	Y		28Jul2007	
TSOCP05	CI29G STUDENT	SYSPROG	Y	Y		28Jul2007	
TSOCP06	CI29G STUDENT	SYSPROG	Y	Y		28Jul2007	
TSOCP07	CI29G STUDENT	SYSPROG	Y	Y		28Jul2007	
TSOCP08	CI29G STUDENT	SYSPROG	Y	Y		28Jul2007	
TSOCP09	CI29G STUDENT	SYSPROG	Y	Y		28Jul2007	
TSOCP10	CI29G STUDENT	SYSPROG	Y	Y		28Jul2007	
TSOCP11	CI29G STUDENT	SYSPROG	Y	Y		28Jul2007	

Evaluar quien tiene el uid 0

Users with uid 0

Line 1 of 26

Command ==> _

Scroll==> CSR

23 Oct 2007 19:58

Complex	Timestamp	Users with uid 0						
RB0DPRIM	23Oct2007 19:58							26
Userid	OMVS uid	Name	Owner	RIRP	SOA	LastConDa	LastPwD	
BILLV	0	BILL VOSHALIKE	SYS1		Y	04Sep2007	11Jul20	
CMNSRV	0	ES18 WEB SERVER	SYS1					
DBA	0		BILLV					
DB2DDF	0		AHMAD			02May2000		
DCEKERN	0		AHMAD			27Jan1999		
DJV1DIST	0		TEICHMN			07Mar2001		
FAST	0	MIKE FAST	SYS1			02Oct1998	02Oct19	
FTPD	0		AHMAD			27Apr1998		
HCMSESV	0	HCM	JEMCCOY			13Jan1999		
IBMUSER	0		IBMUSER		YY	31Jul2007	08Aug20	
INST000	0	INSTRUCTOR 0	SYSPROG		YY	16Jul2007		
INST001	0	INSTRUCTOR 1	SYSPROG		YY	27Aug2007	27Aug20	
INST002	0	INSTRUCTOR 2	SYSPROG		YY	05Sep2007	27Aug20	
INST004	0	INSTRUCTOR 4	SYSPROG		YYY	23Oct2007	27Aug20	
JTILTON	0	TILTON, JOEL	ZSINSTR		YYY	22Oct2007	27Aug20	
LDAPSRV	0		AHMAD			22Feb2001		
LLCOX	0	LLOYD COX	SYSPROG		Y	08Apr2006	22Oct20	
LPDASRV	0	LDAP	BRODY					
OMVSKERN	0	OPEN MVS	AHMAD			22Oct2007		
RALVL2	0	ROBIN YERDEN	SYS1			01Dec1998	01Dec19	
RESCUE	0	RESCUE A USER	MCDON	Y	YY	04Oct1999		
STCAPP	0	STARTED TASK APPLS	SYS1			22Oct2007		
SYSNET	0	NETWORK ID	SYS1		YYY	25Sep2007	28Mar20	
SYSPROG	0	IBM LS IT SUPPORT	SYS1		YYY	23Oct2007	20Jul20	
TSOESAR	0	ADRIAN REID	SYSPROG		YY	23Jul2007	23Jul20	
WEBSERV	0	WEB SERVER	SYS1			11Feb2004		

Detectar usuarios que no han cambiado password

RACF password age overview

Line 1 of 1

Command ==>

Scroll==> CSR

23 Oct 2007 19:58

Complex	Timestamp	Users	Initial password	Initial nonrevoked
RB0DPRIM	23Oct2007	131	102	70

	Non-revoked	Pending	Revoked	All users
Number of userids:	97	0	34	131
Never changed:	70	0	32	102

Age in years:

Older than 5 years:	12			12
4..5 years old:	1			1
3..4 years old:	3			3
2..3 years old:				
1..2 years old:	2			2
0..1 years old:	9		2	11

Specification of age 0..1 years:

6..12 months old:				
5..6 months old:				
4..5 months old:				
3..4 months old:	1			1
2..3 months old:	1			1
1..2 months old:	5			5
2..4 weeks old:	1		2	3
0..2 weeks old:	1			1

***** Bottom of Data *****

Reportes – Texto (email)

Message Reply Reply To All Forward Copy Into New Conversation Tools

Adrian Hernandez
C/Mexico/Contr/IBM@IBMMX
 16/04/2008 02:19 p.m.
 Please respond to
 DontReply@AutoGenerated.IL
 SVPN.IBM.COM

To: Adrian Hernandez C/Mexico/Contr/IBM@IBMMX
 cc:
 bcc:
 Subject: Mining racf events from SMF Report

Custom expiration date of 16/04/2009

```

1 S M F   R E C O R D   L I S T I N G       8Sep05 16:30 to 16Apr08 12:30
page      1
SMF record descriptions

Date      Time    User      Jobname  Description
08Sep2005 16:30  TSTDUBS  TSTDUBS  RACF ALTUSER success for TSTDUBS:
ALTUSER SLACKER
08Sep2005 16:36  TSTDUBS  RIOCMD01 RACF SETROPTS success for TSTDUBS
08Sep2005 16:37  TSTDUBS  RIOCMD01 RACF SETROPTS success for TSTDUBS
08Sep2005 16:39  TSTDUBS  RIOCMD01 RACF RALTER success for TSTDUBS: RALTER
APPL **
08Sep2005 16:39  TSTDUBS  RIOCMD01 RACF SETROPTS success for TSTDUBS
08Sep2005 16:41  TSTDUBS  RIOCMD01 RACF SETROPTS success for TSTDUBS
08Sep2005 17:30  TSTDUBS  TSTDUBS  RACF PERMIT success for TSTDUBS: PERMIT
DATASET BERGHJ.**
08Sep2005 17:30  TSTDUBS  TSTDUBS  RACF SETROPTS success for TSTDUBS
06Jan2006 09:02  RDUBERT  RIOCMD01 RACF ALTUSER success for RDUBERT:
ALTUSER SWUXX
06Jan2006 09:05  RDUBERT  RIOCMD01 RACF ADDUSER success for RDUBERT:
  
```

Reportes - XML (adjunto en email)

 <p>zSecure-RACF_Admin@nl.ibm.com 03-03-2008 10:50</p> <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>Please respond to RACF_Admin@nl.ibm.com</p> </div>	To	Rob van Hoboken/Netherlands/IBM@IBMNL
	cc	
	bcc	
	Subject	List of data sets and general resource profiles in WARNING mode; Please re-validate!
	Default custom expiration date of 03-03-2009	

The following attachment was generated by IBM Tivoli zSecure running 3 Mar 2008 10:50:29 on system EEND



Reporte XML - Internet Explorer

Notes: Edit using Excel. Add your comments in field provided

List of data sets and general resource profiles in WARNING mode; Please re-validate!
 Save the table and e-mail it to RACF_Admin@nl.ibm.com

Class	Profile name	Owner	Change request number	Reviewers Remarks
CONSOLE	SDSF	SYSAUTH		
DATASET	CRMBERT.WARNPROF_DS	CRMBERT		
DATASET	CRMBLU1.QR20801	CRMBLU1		
DATASET	CRMBSG1.ER20312.GLOBAL3.**	CRMBSG1		
DATASET	CRMBSG1.ER20312.GLOBAL4.**	CRMBSG1		
DATASET	CRMBSG2.TEST.WARNING.**	CRMBSG2		
DATASET	CRMQA.R.READWARN.**	CRMQA		
DATASET	CRMQARUN.ACCESS.SYSLOW.**	CRMQARUN		
DATASET	CRMQARUN.ACCESS.WARNING.**	CRMQARUN		
DATASET	RCCSLIN.CNRACF0.COMDOUT	RCCSLIN		
FACILITY	MARCEL	CRMBMR2		
FACILITY	MARCEL@	CRMBMR2		
FACILITY	MARCEL2	CRMBMR2		
OPERCMD5	MVS.DISPLAY.**	SYSAUTH		
OPERCMD5	MVS.START.STC.WARNMODE	SYSAUTH		

Reporte XML- MS Excel

Notes: Edit using Excel. Add your comments in field provided

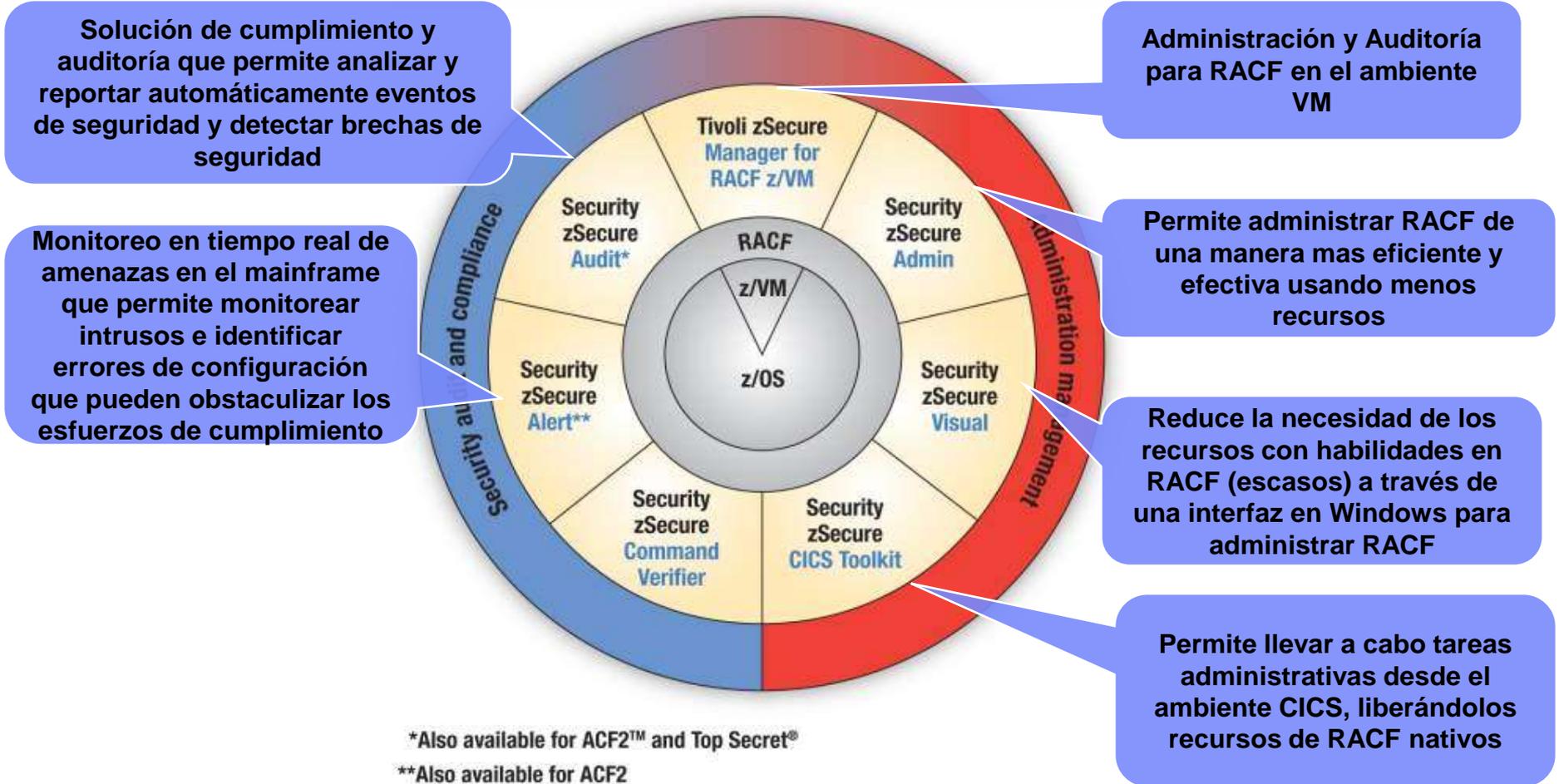
List of data sets and general resource profiles in WARNING mode; Please re-validate!
Save the table and e-mail it to RACF_Admin@nl.ibm.com

Class	Profile name	Owner	Change request number	Reviewers Remarks
CONSOLE	SDSF	SYSAUTH	audit-20080305-10	Change to UACC(READ)
DATASET	CRMBERT.WARNPROF.DS	CRMBERT		
DATASET	CRMBLU1.QR20801	CRMBLU1		
DATASET	CRMBSG1.ER20312.GLOBAL3.**	CRMBSG1		
DATASET	CRMBSG1.ER20312.GLOBAL4.**	CRMBSG1		
DATASET	CRMBSG2.TEST.WARNING.**	CRMBSG2		
DATASET	CRMQA.R.READWARN.**	CRMQA		
DATASET	CRMQARUN.ACCESS.SYSLOW.**	CRMQARUN		
DATASET	CRMQARUN.ACCESS.WARNING.**	CRMQARUN		
DATASET	RCCSLIN.CNRACF0.CMDOUT	RCCSLIN		
FACILITY	MARCEL	CRMBMR2		
FACILITY	MARCEL@	CRMBMR2		
FACILITY	MARCEL2	CRMBMR2		
OPERCMD5	MVS.DISPLAY.**	SYSAUTH		
OPERCMD5	MVS.START.STC.WARNMODE	SYSAUTH		

Enter NUM

IBM Security zSecure Suite Overview

IBM Security zSecure suite

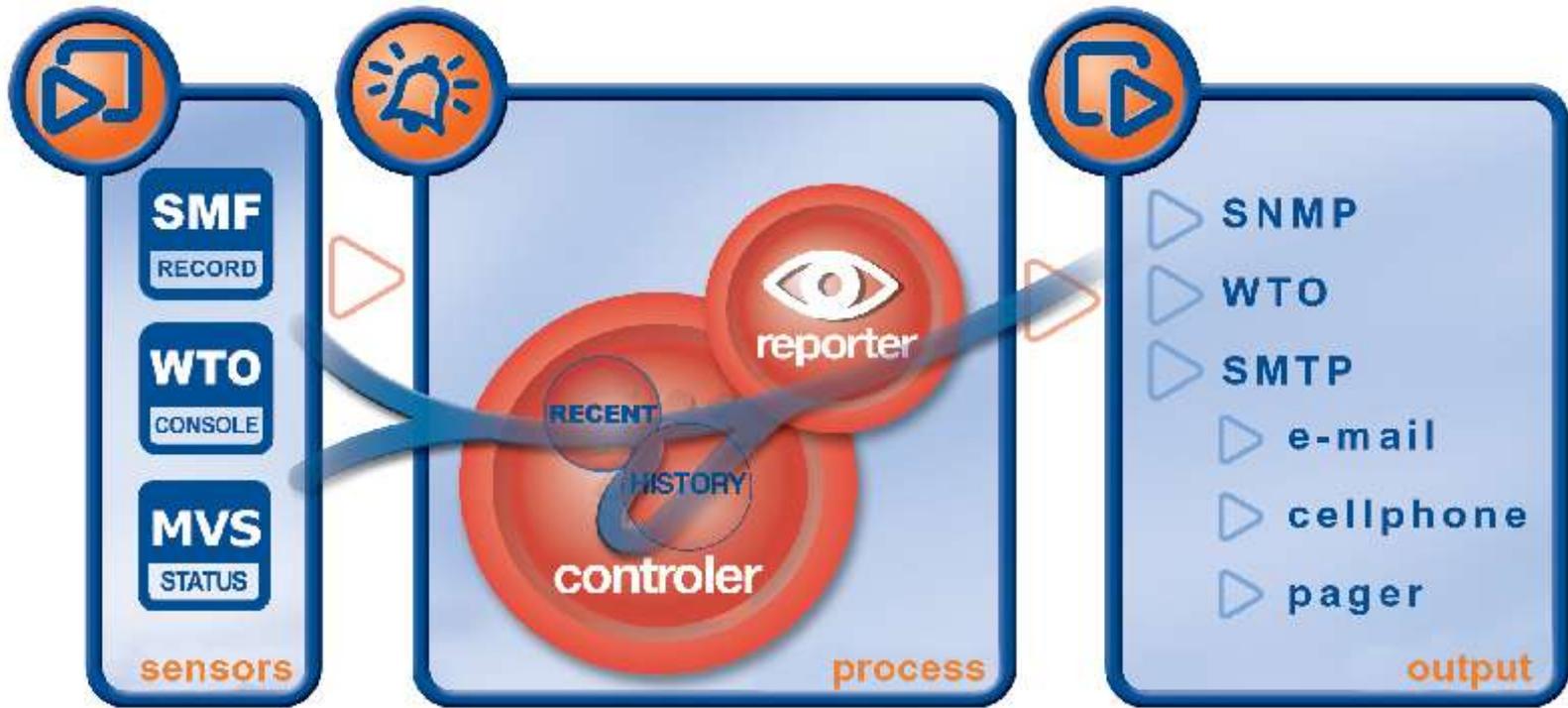


*Also available for ACF2™ and Top Secret®

**Also available for ACF2

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zAlert – Flujo de la información

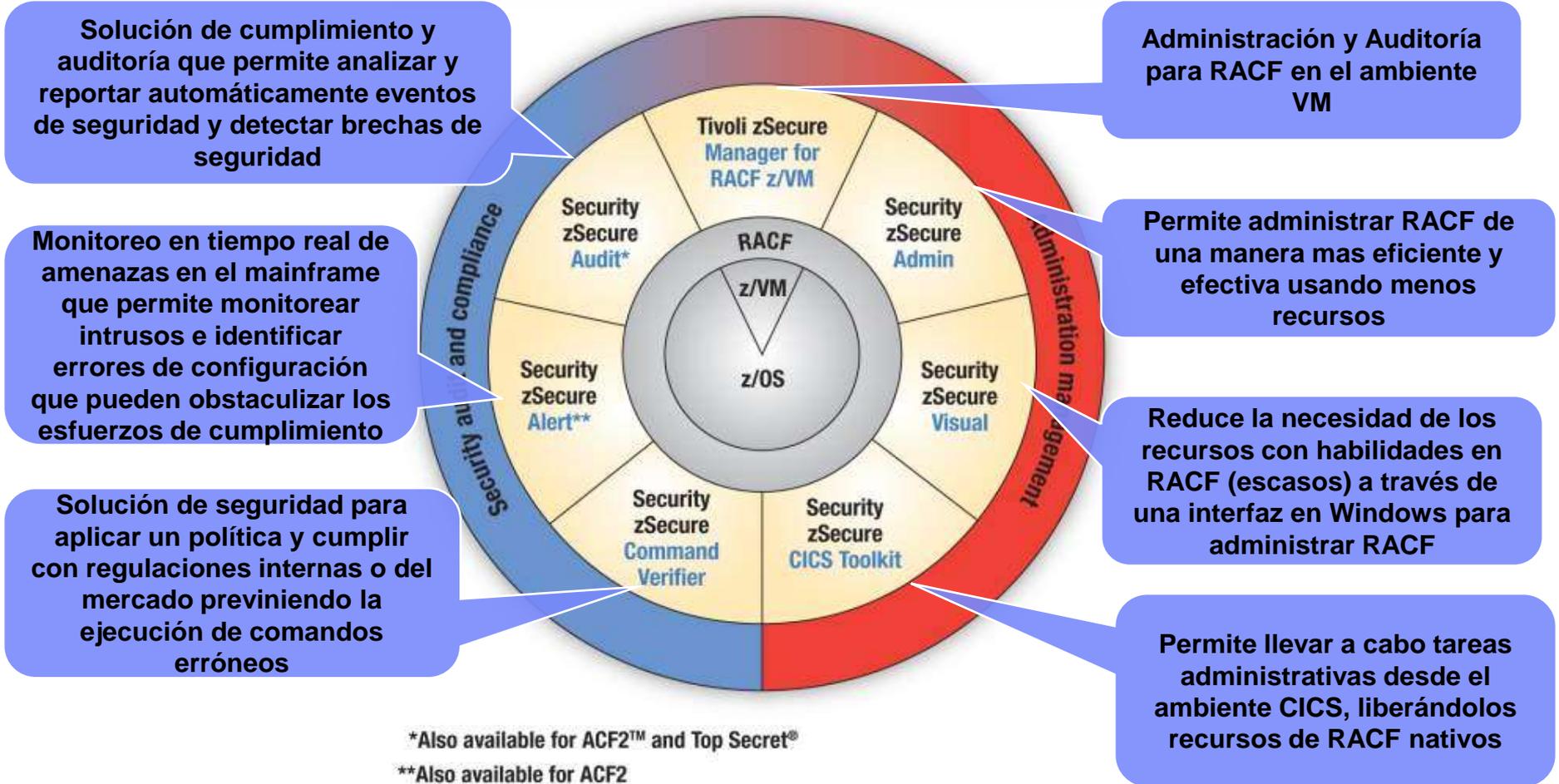


Tipos de alertas - zSecure Alert

- Inicios de sesión no deseados e intentos
 - Inicios de sesión de usuarios desconocidos
 - Inicios de sesión con el userid de emergencia
 - Inicio de sesión con superusuarios de UNIX
- Comportamientos de usuarios que violan la política de seguridad
 - Reciclado de password
 - Uso de usuarios por medio de comandos USS con uid 0, por ejemplo: su
 - Administrador propaga su autoridad
- Actividad sospechosa sobre el subsistema UNIX
 - Violaciones de acceso a archivos
 - Asignación de atributos de programas o APF
 - Lectura o escritura global específica
- Cambios que violan la política de seguridad
 - Adición o eliminación de autoridades del sistema
 - Revocar userids de producción
 - Otorgamiento de acceso universal excesivo
 - Deshabilitar opciones de seguridad del sistema (SETROPTS)
 - Deshabilitar Audit trail
- Recursos principales del sistema en riesgo
 - Actualización del dataset del sistema
 - Adición dinámica de dataset APF
 - Los buffers del SMF se saturan, riesgo de pérdida de datos
 - Tareas iniciadas sin autoridad específica

IBM Security zSecure Suite Overview

IBM Security zSecure suite



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Command Verifier protege RACF y más

- Control completo sobre todos los comandos RACF
 - **SOX Compliance & otras regulaciones**
- Control sobre la ejecución de comandos
- Hace cumplir los estándares de la instalación
 - Convenciones del nombramiento
 - Defaults para valores faltantes
 - Valores obligatorios
 - Estándares de niveles de acceso
 - Incremento de autoridad no permitida
 - Grupo special no puede pasar a lo largo de los atributos
 - Previene cambios a las listas de control de acceso (ACL)
 - Previene el uso de palabras clave (Trusted, Privileged)
 - Previene cambios en la configuración de RACF (SETROPTS)
- Logs a SMF (opcional)
- Audit trail en los perfiles de RACF (opcional)

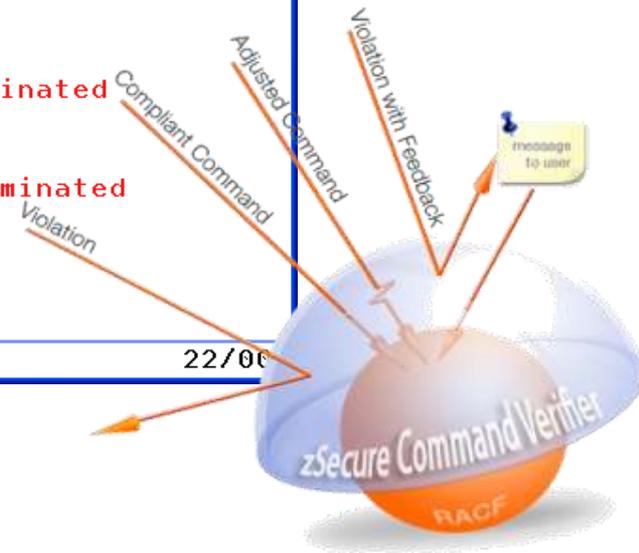


SOX Compliance usando Command Verifier

Prevenir la ejecución de comandos que pueden corromper la seguridad del sistema

```

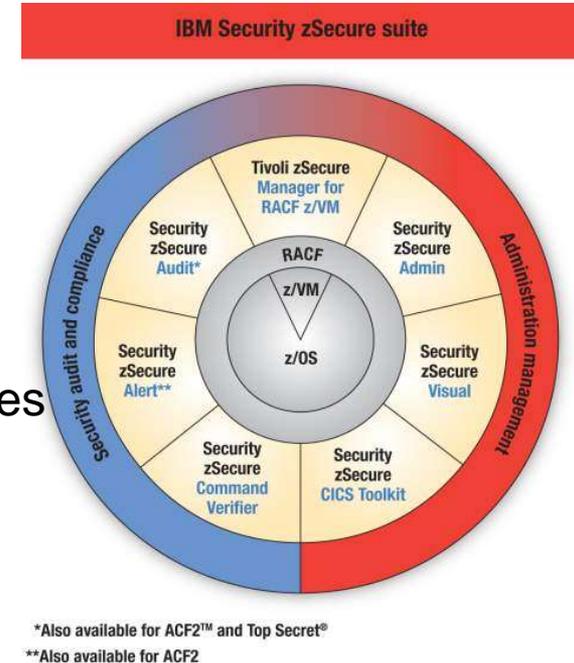
Session A - [24 x 80]
setr password(nohistory)
C4R751E SETROPTS PASSWORD.HISTORY not allowed, command terminated
READY
setr password(interval(180))
C4R751E SETROPTS PASSWORD.INTERVAL not allowed, command terminated
READY
permit irr.password.reset class(facility) id(ibmuser) access(update)
C4R607E ACL setting for self to UPDATE not allowed, command terminated
READY
ralter facility irr.password.reset uacc(update)
C4R600E UACC UPDATE setting not allowed, command terminated
READY
setropts noclassact(facility)
C4R754E CLASSACT not allowed for class FACILITY, command terminated
READY
permit 'sys1.parmlib' gen id(ibmuser) access(update)
C4R646E Management of locked profiles not allowed, command terminated
READY
connect ibmuser group(sys1)
C4R548E You may not connect yourself to group SYS1, command terminated
READY
  
```



Beneficios de Seguridad de la suite zSecure

Consolidar y centralizar la gestión de la Seguridad

- **Simplificar la administración de seguridad y aprovisionamiento:**
 - Reducir el tiempo de administración, esfuerzo y costo
 - Habilitar administración descentralizada
 - Tiempo de respuesta rápido
 - Reducir el tiempo de entrenamiento necesario para nuevos administradores
 - Aplicar la política de seguridad e implementarlas mejores practicas
- **Automatizar auditoría, monitoreo y cumplimiento:**
 - Pasar auditorias de manera mas sencilla, mejorar postura de seguridad.
 - Ahorrar tiempo y costos mejorando la seguridad y el manejo de incidentes para gestionar el riesgo
 - Incrementar la efectividad operacional
- **Reducir costos y mejorar ROI**



धन्यवाद

Hindi

Hindi

多謝

Traditional
Chinese

ขอบคุณ

Thai

Спасибо

Russian

Thank You

English

Gracias

Spanish

Obrigado

Brazilian
Portuguese

شكراً

Arabic

Grazie

Italian

多谢

Simplified
Chinese

Danke

German

Merci

French

நன்றி

Tamil

Tamil

ありがとうございました

Japanese

감사합니다

Korean

zEnterprise.

A New Dimension in Computing

Backup Product Charts



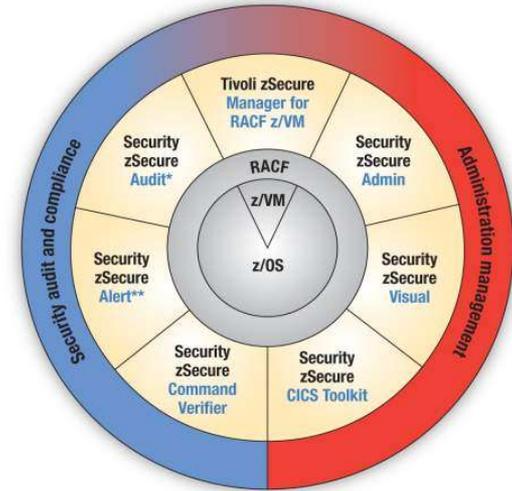
Security zSecure Suite

IBM Security zSecure suite

The zSecure Suite adds a user-friendly layer onto the mainframe that enables superior administration coupled with audit, alert and monitoring capabilities for z/OS Resource Access Control Facility (RACF)

Key Features

- The zSecure suite improves mainframe security, improves the efficiency of administration and enhances the ability for the mainframe to be the hub of enterprise security.
- Administration and provisioning:
 - **Admin** enhances security administration and user management for RACF
 - **Visual** offers a Windows GUI to RACF
 - **CICS Toolkit** for Extensibility with CICS support
- Audit, monitoring and compliance:
 - **Command Verifier** offers automated security monitoring, protection
 - **Alert** provides intrusion detection and alerting.
 - **Audit** provides event detection, analysis & reporting and system integrity audit & analysis



Benefits Summary

- Administration and provisioning:
 - Reduce administration time, effort and cost
 - Enable de-central administration
 - Quick response time, enabling business
 - Reduce training time needed for new administrators
- Audit, monitoring and compliance:
 - Pass audits more easily, improve security posture
 - Save time and costs through improved security and incident handling
 - Increase operational effectiveness

Tivoli Security Solution Offering for zEnterprise

- Enforce security policy compliance and reduce security vulnerabilities
- Centrally manage & protect access to applications, business services, infrastructure & data
- Leverage the mainframe as your Enterprise Security Hub

Tivoli zSecure Suite

- Cost-effective security administration, security policy enforcement, automated auditing and compliance to detect threats and reduce risk

NEW! Tivoli zSecure Manager for RACF z/VM

- Mainframe audit solution for the enterprise security hub for analysis and reporting
- Mainframe administration enables efficient and effective RACF administration



NEW!

Tivoli Access Family

- Strengthen application security with centralized access control
- Secure collaboration and information sharing with web & federated SSO
- Enable B2C user self services and Cloud/SaaS access control
- Simplify mainframe application integration with security run-time services
- Protect data access with entitlement management and enforcement

Includes:

- Tivoli Identity and Access Assurance solution
- Tivoli Identity Manager for Linux on System z
- Tivoli Security Management for z/OS



Lo nuevo en zSecure Suite 1.12

- Soporta RACF Remote Sharing Facility (RRSF)
- Aplicar comandos a multiples profiles
- Administración de z/OS UNIX
- Nuevo roporte y reporte de registros SMF
- Habilidad para enviar alertas a un syslog UNIX
- Soporte de alertas TCP/IP y auditoria
- Soporta z/OS V1.12 y las nuevas capacidades de RACF:
 - Soporte de los nuevos campos de RACF y nuevos valores para certificados
 - Soporte a nuevos exits dinamicos para incrementar la seguridad
 - Suporte para la extensión de Distinguished Names (DN) de 1024 bytes
- Soporte DBCS (Double Byte Character Set) para esfuerzos de cumplimiento
- Y mas...

¿Qué hace Tivoli zSecure Manager for RACF z/VM V1.11?

IBM Tivoli zSecure Manager for RACF z/VM V1.11 permite administración y auditoría para el ambiente VM del mainframe:

- Las tareas de gestión del ambiente z/VM toman tiempo, con esta solución se pueden hacer estas tareas en un solo paso sin necesidad de conocimientos profundos de los comandos de RACF.
- Identifica y previene problemas en RACF antes de que se conviertan en una amenaza a la seguridad y cumplimiento
- Creación de registros de auditoría sin un esfuerzo (importante) manual
- Generación de reportes customizados.
- Soporte de recursos z/VM (minidisks, etc)