Vanguard Integrity Professionals, Inc.



Vanguard
Security Solutions
for Business
Resilience and
Security

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Agenda



- > Vanguard Credentials
- > Trends in Mainframe Security
- > Business Challenges
- > Vanguard Security Solutions for the Mainframe

About Vanguard



Founded: 1986

Ownership: Privately held

Business: Information Security Software, Training, Consulting Services

Customers: 600 domestic and abroad, 1,400 software licenses

Vanguard Victoria Labs Victoria, BC, CANADA

Vanguard Research Institute Orange, CA, USA

Vanguard Integrity Professionals - Nevada

Las Vegas, NV, USA



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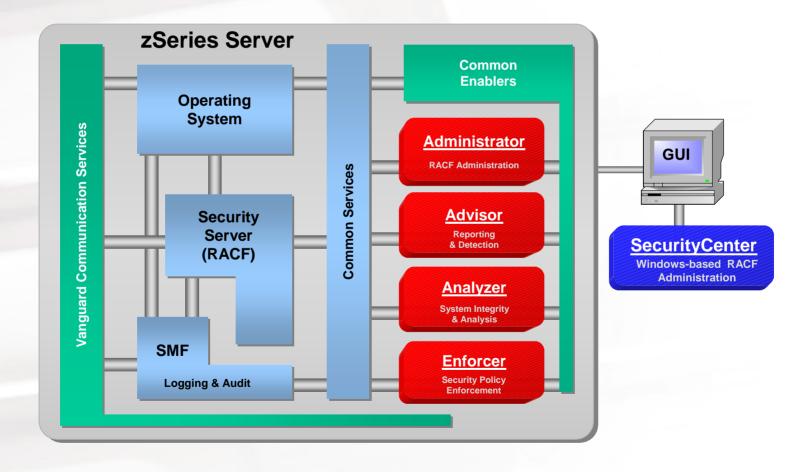


And now, IBM is a Reseller of the Vanguard Products

Corporate Mission



Ensure Business Resilience and Security while Reducing the Total Cost of Ownership (TSO)



Vanguard Offerings



Vanguard Security Solutions ™ v6.1

- RACF Administration, Auditing, Reporting, Analysis, Intrusion Detection & Policy Enforcement
- Authentication & Access Control
- Integration API

Professional Services

- RACF Security Assessments
- RACF Security Implementations
- RACF Migration Assessments
- RACF Migration Services
- Network & Application Security

CUSTOMER

RACF Training

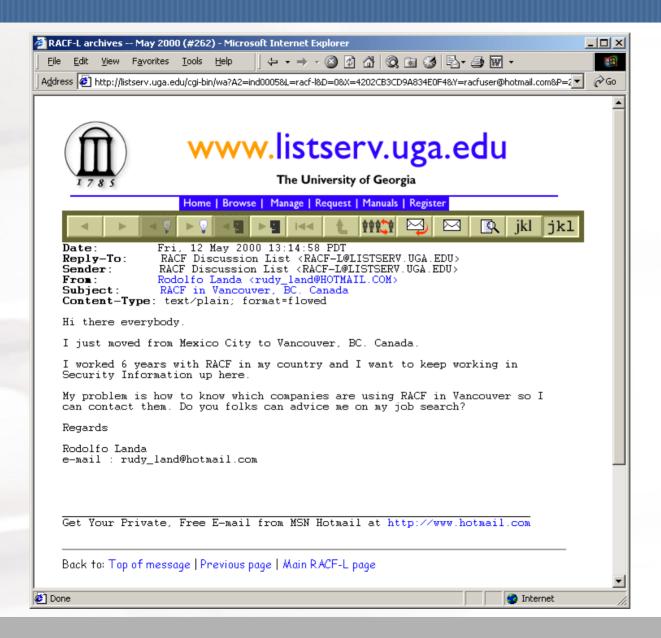
- RACF Administration
- Advanced RACF Facilities
- Securing z/OS as a Network Attached Device

Enterprise Security Expo™ & RACF User Training

- Largest RACF Security Conference
- Product Solution Center
- Enterprise Wide Security Training
- Vanguard Product Training
- Compliance & Regulatory Training

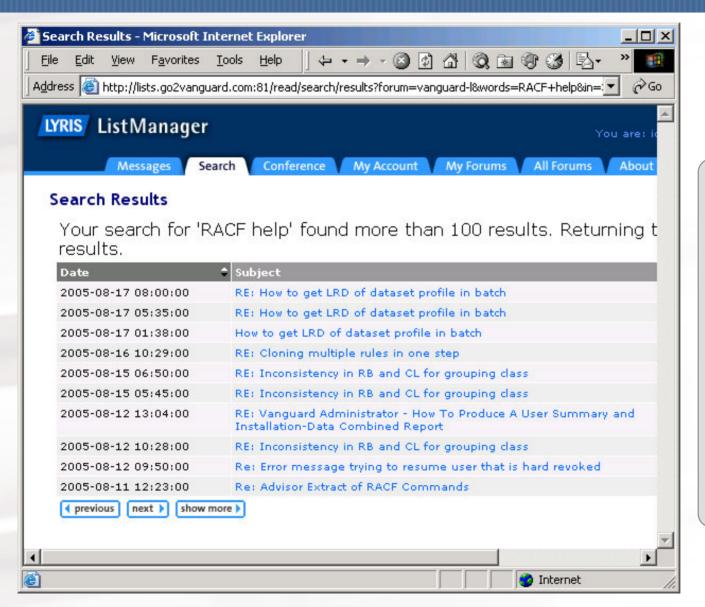
RACF-L





Vanguard-L





Over 500 members

600 discussion threads

Contributors
include Vanguard
Consultants,
Industry experts,
Vanguard Customer
Service Reps

Tips & Techniques

Enterprise Security Expo & RACF Users Training





140+ Educational Sessions

Who should attend?

Security Administrators
IS Management
Security Managers
EDP Auditors
Network Analysts

CIOs/CSOs Network Administrators System Technicians System Programmers IT Professionals

"There is nowhere else you can get this level of knowledge in one place. You are sorely pressed to make decisions on what sessions to attend."

> - Casey Parker, Consultant Parker Consulting

IBM Partnership



IBM Software Development Partner

IBM Early Support Programs

Perform Security Server training for IBM

Security Server (RACF) User Requirements

Certified IBM RACF Migration Tool User

Vanguard Enterprise Security Expo - RACF Users Training

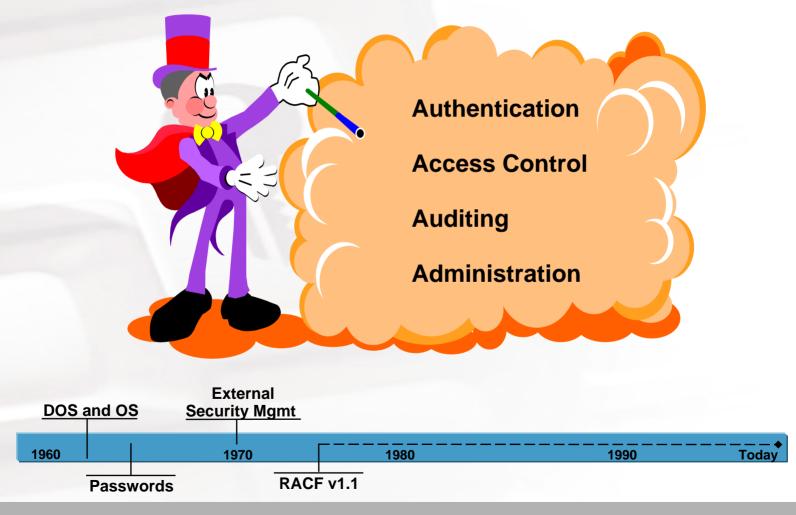
5/9/05 Press Release – IBM signs Reseller Agreement



Genesis of Mainframe Security



Resource Access Control Facility (RACF)

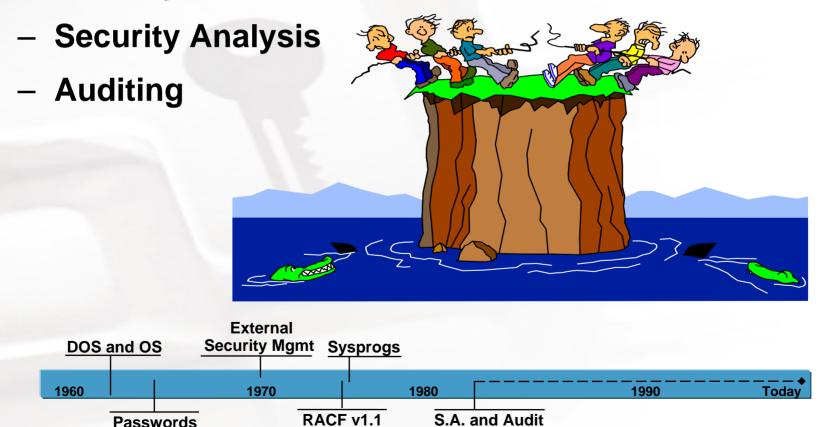


Security Professionals



Due to separation of duties, there are three professions in security

Security Administration



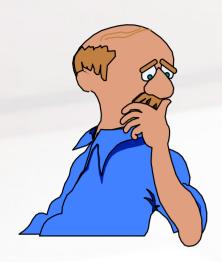
The Role of the Mainframe Today



- Evolution to the z/Series Servers and z/OS
 - From Closed Legacy System only image
 - To Open E-Business and E-Commerce image
 - Began in 1996 with first release of OS/390
- Continues Legacy System Support
- Exploding Open Server Enhancements
 - Unix System Services
 - Web Server
 - Lightweight Directory Access Protocol LDAP
 - Cryptography and Secured Socket Layers
 - Kerberos Authentication

Current Security Challenges

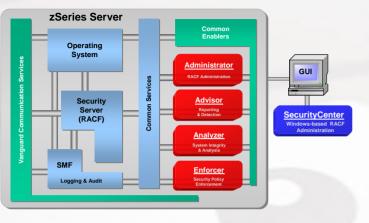




- More regulations more oversight
- Is our security policy being enforced?
- Is our data protected properly?
- Are there any unknown security exposures
- Are we following best security practices?
- We must be responsive to business needs
- We are being asked to do more with less

Vanguard SecurityCenter





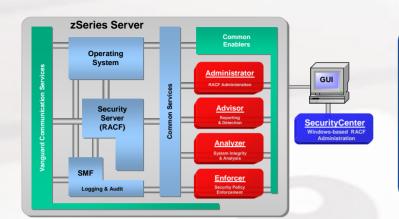
A windows-based interface to IBM's z/OS Security Server.

U16JFD: User Administration

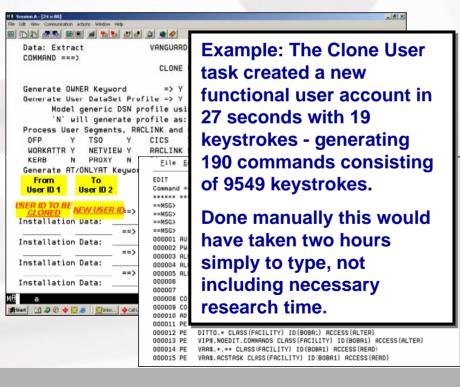


Vanguard Administrator





Automated administration, data mining, reporting and analysis tool that enhances IBM's z/OS Security Server to become a mainframe policy and role-based user-provisioning tool.



Daily Security Administration Tasks

- Administrate individual profile data
- Perform password administration
- Create new Users, Groups, and Resource Profiles
- Transfer Users between departments
- Produce reports such as access list reports
- Analyze and resolve access violations

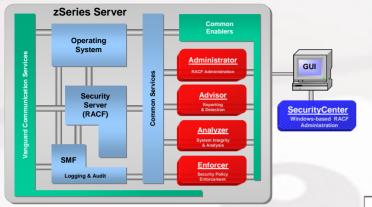
RACF Database Management Tasks

- Correct profile ownership definitions
- Replace users with groups in profile definitions
- Remove obsolete user and group references
- Remove redundant access definitions
- Identify unprotected datasets
- Produce complex reports to support the above tasks



Vanguard Advisor





IBM z/OS Security Event detection, analysis, reporting and electronic report distribution.

- Perform data analysis and compliance reporting from historical or live SMF data
- Create custom report formats for ad-hoc reporting
- Generate JCL and submit jobs for extracts, reports, command generation, and remove OPERATIONS utility
- Supports advanced features such as report filtering, immediate command execution support, and much more
- Detect and report on intrusion attempts from unauthorized users

Data:	Extract	t	Viola	tion Sum	mary		Sort com	plete
Command ===>							Scroll ===>	PAGE
Next to one or more entries: S - all detail report M - multiple detail report								
		Summary Totals	i:	421	806	268	57	1552
CMD Us	serid	User name		esource Access	_	RACF Commands		Tota
	EGANO	KEEGAN		100	55	1	2	158
B0		BOB SPITZ ART HATFIELD-MIHE	1.70	10 44	45 26	1 5	29 0	85 75
DO	RTM DUGB	DOUG BEHRENDS	LIC	60	10	0	5	75
		J.E. DOE		1	19	39	0	59
U@	12JED	J.E. DOE		31	7	16	0	5
WI	NUSER			0	51	0	0	5:
	ZRACF1	****	###	0	50	0	0	51
JI		JAMES MCNEILL		19	29	0	0	4:
		J. E. DOE		6	22	20	0	4:
		J. E. DOE		6	12	27	1	4
EZ	ZRIGHTS	EZRIGHTS DEMO ID		40	0	0	0	4
EZ	ZTEST1	*****	###	0	37	0	0	3

Efficiencies Drive Down TCO



- The time saved by automating, delegating, or simplifying routine tasks translates into cost savings
- Improves quality and reduces human error
- Reduces training costs
- Improves service level
- Extensive data mining provides powerful and flexible reporting

RACF-L Inquiry Posting



Hi,

We currently administer RACF without using any third party product.

It is not that bad, by the way!!

You are obliged to learn RACF command syntax, use of standard utilities, and how to make some processes and reports the hard way (cloning a user, for instance). All this knowledge is useful, IMHO.

That said, any tool to simplify administration is of course welcomed!

Some days ago we had, at our office, a presentation of Vanguard products.

They look fine.

What is your experience with them?

I want to know any positive or negative experience you had.

RACF-L Response





We use the Vanguard product suite extensively. In the IT industry, we, the security professionals, are expected to do more with less. The Vanguard product suite fills that hole completely.

Tasks that were once time consuming can now be done on the fly.

My command syntax days are gone, Vanguard makes me look good in the eyes of management.

I also can say that their support and professional services staff are second to none!

Contact me anytime offline.

RACF-L Response



We have the Vanguard Administrator, Advisor, and Analyzer. We are very happy with all three products, especially the Administrator.

We have a huge volume of data and I am very pleased with the way Vanguard has performed.

The support we get is fantastic to say the least, problems are generally solved the same day. I highly recommend their products and if you need more detail just drop me an email.



There's More to Security than Administration





Internal and External Audits

Compliance to Internal IT Controls

Basel II

EU Data Directive

SOX

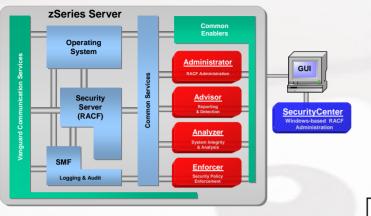
GLBA

HIPAA

Vanguard Analyzer

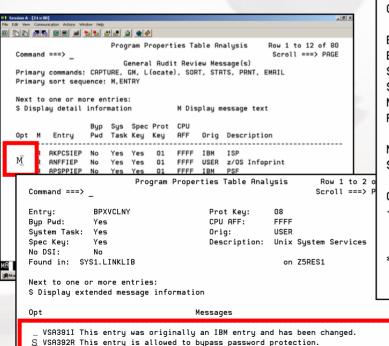


Row 1 to 2 of 2



A system integrity, assessment, risk identification, threat analysis and problem remediation solution for IBM's z/OS environment.

Program Properties Table Analysis



Scroll ===> PAGE Command ===> Entru: **BPXVCI NY** Message: VSA392R Bup Pwd: Yes More: System Task: Yes Risk Yes Spec Key: RACF checking for datasets is No DSI: Nο bypassed. Found in: SYS1.LINKLIB Explanation Next to one or more entries: This entry in the PPT grants the S Display extended message informati bupass password attribute to the program. Opt User Action The user should verify that the VSA391I This entry was originally S VSA392R This entry is allowed to module in question is an IBM ******* Bott module for which this attribute is necessary. Otherwise, check

An example of a powerful feature in the Vanguard Analyzer is the SmartAssist dialog

Summary of Benefits

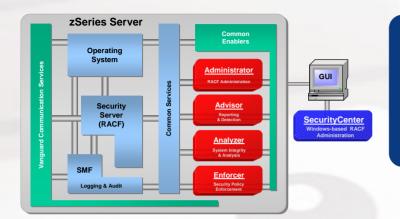


- Audits both z/OS and RACF
- Prioritizes findings by importance
- Takes the guesswork out of reviewing security settings
- Provides expert-level assistance and guidance
- SmartAssist explains the identified risks and recommends how to correct
- Enables less experienced staff to perform an expert analysis

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Vanguard Enforcer





A proven z/OS intrusion detection and management solution to protect critical corporate assets and ensure information privacy.

1. User makes unauthorized changes to the permissions of a critical file.





INTRUSION DETECTED

Date/Time: 05/01/05 5:00p Resource: Payroll Database

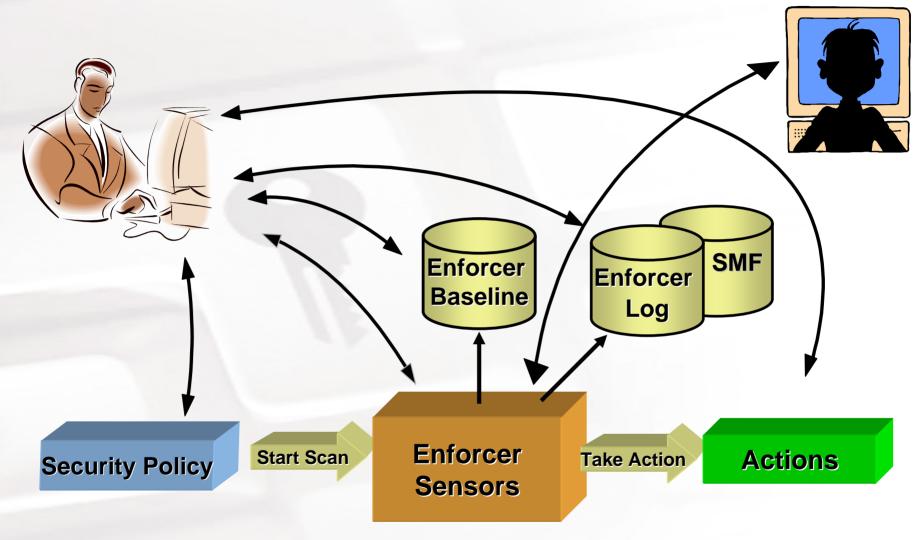
User ID: TELLER1

3. Data guardian receives the call and takes appropriate action.

2. Vanguard Enforcer detects the event, automatically puts the permissions back and sends an alert to the data guardian's cell phone with details of the event.

Vanguard Enforcer Flow

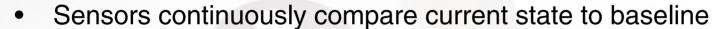




Vanguard Enforcer - Baseline and Sensors



- Baseline
 - Capture of current system state
 - Granular to specific Sensors





RACF Extraordinary Users
User Specified Critical RACF Groups
RACF System Wide Options
User Specified Critical DASD Volumes
Profile Access List Entry Expiration
Started Task Security
Supervisor Call (SVC) Security

Authorized Programs (APF) Security
Program Properties Table (PPT)
User Specified Critical Data Sets
RACF Profiles For Critical Data
Critical General Resources
LNKLST Security
Restricted Utilities In The LNKLST
LPA List Security

Enforcer Sensors

Summary of Benefits



- Help meet fiduciary requirements of privacy and confidentiality by providing proactive surveillance and monitoring of critical business applications
- Reduce audit findings through proactive monitoring and correction
- Reduces economic exposure by ensuring the standards, policies, rules and settings defined by your security and compliance experts are in force

Depository Trust & Clearing Corp. (DTCC)



"DTCC has become far more proactive in meeting security compliance requirements with the use of the Vanguard technology. Vanguard's solutions help us maintain, track, and perform constant surveillance and enforcement over our environment."

— Paul de Graaff
Vice President
Chief Information Security Architect
The Depository Trust & Clearing
Corporation

Business Challenges

- Complex system environment: Sysplex with 15 LPARs & 10 RACF® databases
- Labor intensive security management tasks were stifling IT productivity
- Goal: lockdown the security environment by
 - Fully automating their change control process
 - Continuously monitoring and enforcing policies for critical resources and RACF settings to ensure system integrity
 - Reducing security vulnerability window and costs and expertise required to manage their RACF policies

Solution Benefits

- Identifies security policy deviations in real-time
- Immediately escalates policy exceptions
- Establishes new security baseline (re-baseline) or rejects exception by reinforcing existing (approved) policy automatically
- Continuously monitors security posture
- Reduces window of vulnerabilities through real-time detection and alerting

Solutions

Vanguard Administrator[™], Analyzer[™], Advisor[™], & Enforcer[™]

Canadian Department of Defence



"Vanguard's products make my job fun! I can now devote most of my time to security oversight activities because we have experienced enormous productivity improvements. The reporting capabilities are outstanding, I maintain visibility across my entire RACF environment, review policy changes, and receive alerts on security events including policy violations. I have transitioned our security operation from reactionary to proactive security management."

Central RACF Administrator
Canadian Department of Defence

Business Challenges

- Management of distributed RACF environment: Sysplex with 14 LPARs & 2 RACF® databases,
- Labor intensive security administrative tasks were stifling security officer's productivity
- Frequent job rotations made it difficult to maintain deep RACF expertise
- Internal audit identified too many findings
- Lacked oversight of policy changes

Solution Benefits

- Provides a platform for RACF training; new personnel are productive on day-one.
- Reports across the entire RACF environment improving oversight and control
- Improves responsiveness through real-time alerting on security events
- Automated system auditing proactively identifies vulnerabilities to maintain audit readiness

Solutions

Vanguard Administrator[™], Analyzer[™], Advisor[™], Enforcer[™],
 & SecurityCenter[™]

Vanguard Sampling of Customers



"I do not believe I would have been able to survive the SOX audit without the Vanguard tools...ease of use is phenomenal!"

Gary Godek
Information Security Administrator
Eaton Corporation

"With the Vanguard products, productivity has increased. The value of the products has far exceeded the costs."

Ann Fleming
Director of Information Security
Georgia Department of Labor

"The Windows interface on SecurityCenter makes RACF administration a lot easier. You doubleclick to see the security tree, then click again to drill down into specific permissions for specific individuals."

Greg Sieg
Manager of Technical
Development and Support
Princess Cruises

ABN AMRO Bank
U.S. Bancorp
Wachovia
Bank of Montreal
State Street Bank
Capital One Services
Travelers Indemnity
AFLAC
Hyundai Marine & Fire

U.S. Office of Personnel
Management
Singapore Housing
Development Board

Insurance

IBM Global Services
Princess Cruises
America West Airlines

United Healthcare Corporation

Blue Cross Blue Shield of
Connecticut

Centra Health

California Health Services

University of Virginia Medical
Center

Rite Aid Corporation

Wal-Mart
The Gap
Sears Canada
Winn-Dixie Stores
Dillard Department Stores

Goodyear Tire & Rubber
Pratt & Whitney
Sony Electronics
Nissan North America
Ralston Purina

Business Resilience and Security





Questions



- More information
 - http://www.go2vanguard.com
 - bob.spitz@go2vanguard.com

